Honeywell
THE POWER OF CONNECTED

Industrial Safety

Realised in cooperation with Europoles GmbH & Co. KG

Equip them for safety

PERSONAL PROTECTIVE EQUIPMENT & SAFETY SOLUTIONS

Summary

Lead them to safety - Build an enduring culture of safety through comprehensive education, innovative technologies, and comfortable, high-performance products that inspire workers to make safer choices on their own. Honeywell Industrial Safety is the ideal partner for organizations committed to a cultural transformation that minimizes injuries and maintains a safer, more productive workplace.

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Culture of Safety

According to the International Labor Organization (ILO 2009), every 15 seconds a worker dies from a work-related accident or disease somewhere in the world, a total of 2.3 million people every year.

Each year, 160 million new cases of occupational illness are reported and another 270 million workers suffer non-fatal workplace injuries. The economic, social, and legal impact of accidents makes worker safety a top priority for commercial and industrial employers around the world.

HONEYWELL INDUSTRIAL SAFETY HELPS SAFETY MANAGERS BUILD AN ENDURING CULTURE OF SAFETY THAT MINIMIZES INJURIES AND MAINTAINS A MORE PROTECTIVE AND PRODUCTIVE WORKPLACE

Studies have shown that an empowered safety culture can be the most cost-effective and proven accident-prevention process.

Creating a safety culture does not mean adding a new set of rules; it is a philosophy of preventing injury in the workplace. Safety is no longer something defined and enforced by the management; rather, it becomes the right and responsibility of each and every employee. When workers embrace safety standards and practice better behaviors, they can regulate their own safety much more effectively and consistently.

OUR CULTURE OF SAFETY CONSISTS OF 4 DIMENSIONS:

Honeywell Industrial Safety partners with environmental health and safety managers to build and sustain a "Culture of Safety" in the workplace that transforms the environment where workers live and work.

In such cultures, managers inspire their workers to change behaviors and make safer choices on their own and for their own protection—as well as that of their friends and co-workers.

Honeywell Industrial Safety is committed to support safety managers in their quest to build a sustaining culture of safety.

Our 50 years of experience and knowledge in regulatory compliance, hazard identification, safety management, and PPE equipment selection and application, combined with a deep organizational commitment, uniquely positions us to help safety managers build a culture where workers make safer choices on their own.

WHO IS HONEYWELL INDUSTRIAL SAFETY?

Honeywell Industrial Safety (HIS), part of Honeywell Automation and Control Solutions, helps organisations manage workplace safety.

HIS offers the broadest range of industrial safety products — from personal protection gear for a worker's eyes, ears and head, to fall protection harnesses and respiratory protection, software, first-responder gear and toxic and combustible gas monitors that protect the lives of workers — anywhere they are at risk — while also protecting the operations of their companies. Honeywell Industrial Safety is taking safety to the next level by leading the transformation from point solutions to connected solutions. Whether it's wearables in gas detection and PPE or portables and fixed devices, our products help our customers with connected, real-time safety intelligence to respond to safety threats, manage risk to the business and improve productivity. HIS helps customers make better decisions by connecting sensors throughout customers' operations to deliver a real time, accurate picture of safety at all times.

Honeywell is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; turbochargers; and performance materials. For more news and information on Honeywell, please visit www.honeywellnow.com

Honeywell

Honeywell Industrial Safety

We are a leading global manufacturer of personal protective equipment (PPE) and a provider of safety services and solutions. We help companies worldwide build an enduring culture of safety, ensuring that employees make safer decisions on their own.

HEAD-TO-TOE SOLUTIONS:

HEARING PROTECTION

- Earplugs and earmuffs
- Earplug fit testing systems
- Intelligent hearing protection and communication systems

EYE, FACE, HEAD & WELDING PROTECTION

- Welding protection
- Laser protection
- Head protection
- Safety eyewear: Safety spectacles, goggles, face shields, laser and safety spectacles with corrective lenses

RESPIRATORY PROTECTION

- Single-use masks respirators
- Reusable filtering masks
- Half masks and full-face masks
- Powered air-purifying respirators (PAPR)
- SCBA and supplied air system

PROTECTIVE GLOVES

- General handling and specific protection (chemical, thermal, electrical)
- Metal-mesh gloves, sleeves and garments
- Protective sleeves

PROTECTIVE CLOTHING

- Single use protective clothing
- Technical workwear

FALL PROTECTION

- Personal fall protection
- Height access solutions
- Rescue solutions

SAFETY FOOTWEAR

- Protective boots
- Safety shoes
- Overshoes

LOCKOUT / TAGOUT

- Lockout panels and stations
- Lockouts valves & boxes
- Lockouts safety hasps

Services & Solutions

Education and training have become critical elements in building a culture of safety. Honeywell Industrial Safety solutions includes comprehensive safety education and services, encompassing a wide variety of topics such as training, awareness program, risk assessment, compliance, equipment repair and maintenance.

Our knowledgeable safety experts implement behavior-based programs that enable efficient organizational learning and adoption of best practices. We incorporate safety tools and materials especially designed to help workers practice safe behaviors.

TRAINING

Honeywell Industrial Safety supports a positive program to deliver world-class safety at height and respiratory training solutions to reinforce our safety commitment to you.
With 11 training centres and 30 trainers in EMEAI (Europe, Middle East, Africa, India) we can deliver training services to your employees as follows:
- Delivered at your location – depending on suitability for training requirement;
- Delivered to your employees as a bespoke course at one of our Honeywell Safety Institute sites in France, Germany, UK or Sweden;
- Join an open course at one of our Honeywell Safety Institute locations.

• FALL PROTECTION TRAINING

At Honeywell, we can support your workplace culture of safety with:
- Competent Person Equipment Inspection Training.
- Personal Safety at Height Training, involving practical use of the equipment plus an assessment of your staff to ensure they are completely safe to work at height.
- A complete range of Rescue at Height Training solutions to ensure workers are 100% safe in their daily workplace.

• RESPIRATORY TRAINING

Our training program includes maintenance and use of our complete range of products for escape filtering and air supplied devices as well as cylinders. They are delivered by a team of instructors with in-depth knowledge of assoociated risks for many industries, such as petrochemical, oil & gas, civil security or nuclear.

THE HSP PPE CONCEPT IS OUR SOLUTION FOR YOUR SAFETY IN HAND AND BODY PROTECTION

Honeywell provides a unique approach from the risk assessment to the training of PPE users for gloves and protective clothing. This approach will answer your needs to have complete documentation according to legal requirements and help you improve occupational safety while controlling the cost within your company.
With nearly 1800 process done, our practice-oriented database ChemPro® has qualified 300 000 chemicals in more than 15 years of experience. Our approach is supported by ISO 9001 certification.

HEARING CONSERVATION PROGRAM

HEARFOREVER™: our effective hearing conservation program - Visit www.hearforever.org. Noise-induced hearing loss is the world's most prevalent occupational injury. With the proper education, motivation and protection, it is also 100% preventable!
Noted industry experts support the HearForever™ initative by holding hearing conservation seminars for safety professionals worldwide.

INSPECTION AND REPAIR

I&R services can be offered for Fall and Respiratory in our factories or in our network of certified service centers. For Fall protection, I&R services can be provided in our factories in Hof (Germany) or Vierzon (France), in our factory in Villers Cotterêts (France) for respiratory or in one of our certified service centers. Honeywell certified Service Centers are trained by Honeywell Industrial Safety technicians according to the maintenance guide. They also store necessary spare parts to offer you the best service level. To get the contact of our factories or the closest service center, please contact our Technical call center (see page 9).

Solutions that Drive Your Business

At Honeywell, we are constantly striving to bring more value to our partners—above and beyond the high quality products you have come to expect. We also provide you with award-winning marketing support materials, programs, tools, merchandising solutions, dedicated displays and attractive packaging created to help you grow your business, promote your services and build your brand. They are effective and easily accessible.

DISCOVER OUR INNOVATIVE AND COMPLETE PROFESSIONAL SELF-SERVICE DEDICATED OFFERS

HONEYWELL TRADESMEN PPE OFFER (see pages n°10 - 11)

Whether having to select personal protective equipment in a physical or an online store, the challenge is the same: how to ensure skilled workers make safer choices on their own?

Discover the Honeywell Tradesmen PPE offer:

- A fully integrated solution, covering all risks from head to toe
- A product selection tailored to meet tradesmen needs
- Packaging that is specifically designed to highlight important information
- Supported with dynamic actions and adapted solutions to emphasize the value offer at point of sale.

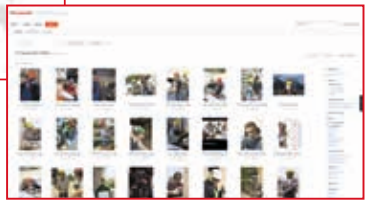
MARKETING SOLUTIONS: PRODUCT INFORMATION ON LINE

VISIT ONE SINGLE SITE FOR ALL OF YOUR PERSONAL PROTECTION EQUIPMENT NEEDS WWW.HONEYWELLSAFETY.COM

- Navigation: Search a wide range of Honeywell Industrial Safety by risk, by industry or by product family.
- Product information: Learn more about our products, find technical contacts and download documentation and certification to stay informed.
- Searching: Search for products throughout the entire range, by country or region and discover special promotional sites - all in one place.

HONEYWELL INDUSTRIAL SAFETY MEDIA: A SINGLE SOURCE FOR MARKETING MATERIALS

THE HSP MEDIA LIBRARY PROVIDES:



- Product images and application photos.
- Logos for Honeywell Industrial Safety' brands.
- Product literature and brochures and much more…

GET STARTED:

- New Users - Visit www.hspmedialibrary.com to register as a user today.
- Existing Users - Please bookmark www.hspmedialibrary.com and log in using your existing username and password, then select HSP Europe in the domain field.

For more information visit: www.honeywellsafety.com

Innovation, R&D, Environment

Innovation and advanced technology are ingrained in every Honeywell safety solution. Our 400 engineers combined with our 30 research and development centers are dedicated to improving safety by employing cutting-edge ergonomics, connectivity and human factors, engineering to create the industry's most comfortable and functional safety products.

By applying these scientific approaches to solution design, we have maximized ease of use, performance and user satisfaction while reducing stress and fatigue.
The result: stylish, pleasing safety gear that employees want to wear.

INNOVATION IS OUR LONG-TERM PRIORITY

Our policy is to design innovative, value-added solutions based on customer-oriented research and development.

Our brands have a long history of innovation that have set the standard in the PPE industry.

Over the years, Honeywell has earned hundreds of industry patents for the many technological innovations we have introduced to the marketplace.

Today our world-class research and development structure and new technological resources are shaping the future of workplace safety.

OUR CULTURE OF SAFETY RESEARCH LEVERAGES OUR DEEP EXPERTISE IN CENTRAL TECHNOLOGY PLATFORMS:

VIDEO ANALYSIS AND SCANNING FOR ERGONOMICS USED AS INTERNAL PROCESS TOOLS

Video image analysis and 3D scanning ensure the totally integrated and dynamic fit, comfort, compliance, and productivity of our products.

WE OFFER ADVANCED TECHNOLOGIES FOR ALL ENVIRONMENTS

Improved product performance under a variety of conditions such as:

- Air Flow Control™ (hearing protection): our patented technology delivers optimal attenuation across all frequencies and snap-in ear cushions make it easy to maintain.
- Dura-streme® technology (eyewear protection): offers industry-leading advantages of our anti-scratch coating which protects the external surface of the lens by ensuring resistance from chemical products and scratches. The Fogban coating on the inside of the lens maintains visibility in heat, humid work environments.
- The Miller Revolution™ harness offers 8 unique components, including the rotating PivotLink™ connections at waist level for greater comfort and freedom of movement, the ErgoArmor™ padded back shield for additional protection and the DualTech™ webbing with shape retention memory for easy fit.
- Today, Honeywell Industrial Safety offers its customers a new concept called "Check & Go" that will make their life much easier : thanks to an easy visual recognition, immediately provide safety managers and their teams the cut protection level. Choosing and recognizing instantly from a distance the proper level of protection are two of the most critical factors in protecting against cut risks. Don't talk, just look.

EASY VISUAL RECOGNITION

VISUAL recognition LEVEL

BY COLOR: The colours red, orange and green are internationally recognized and understood in our daily lives. **BY NUMBER:** Honeywell is the first to associate the EN388 cut performance number, in an easily readable format with the color code recognition system.

ENVIRONMENT: OUR COMMITMENT

Honeywell is dedicated to protecting the environment with a comprehensive commitment to address some of the world's toughest challenges. This is one of the central tenets of how Honeywell does business throughout the world.

Our solutions and technologies expand sustainable capacity and improve the efficiency of products and processes, fostering "Sustainable Opportunity".

We design products that help conserve energy, reduce waste, and protect our homes and offices in accordance with ISO 9001, 14001 & OHSAS 18001 standards and CE 11B certification.

Sales Support

COMMITMENT

We are dedicated to our partners and committed to delivering innovations that solve your customers' problems.

BEST PEOPLE

Our team of dedicated and talented professionals have a vast experience of : the safety industry. Nine regions are supported by a large sales team: sales representatives, products specialists, key account managers, customer services, pre sales and order management.

CUSTOMER CARE

We offer extensive support for our products including our product warranties, advance replacement solutions, product knowledge such as technical data/ information, cross referencing competitor parts, special requests: color, labeling, features through our engineering teams to develop customized solutions.

TECHNICAL SUPPORT

Our team of experienced specialists are always at your service whether you are seeking product recommendation, technical information, product certification and standards or require technical data sheets.

TECHNICAL CALL CENTER

FALL PROTECTION CALL CENTER: Techniserv

Our technical experts are available to answer your work at height technical questions and help you choose the right product for your application:

TECHNISERV NORTHERN EUROPE
Tel: +49 (0) 9281 83 02 205
or +49 (0) 9281 36 26
E-mail: techniservnorth.hsp@honeywell.com

TECHNISERV SOUTHERN EUROPE
Tel: + 33 (0)2 48 52 40 42
Fax: +33 (0)2 48 52 40 76
E-mail: techniserv.hsp@honeywell.com

RESPIRATORY PROTECTION CALL CENTER:
Tel: +33 (0)1 49 90 79 90
E-mail: support-respiratory@honeywell.com

Honeywell Tradesmen PPE Offer: A fully integrated solution for your PPE self-service

PPE is now accessible: it has become easy to protect yourself

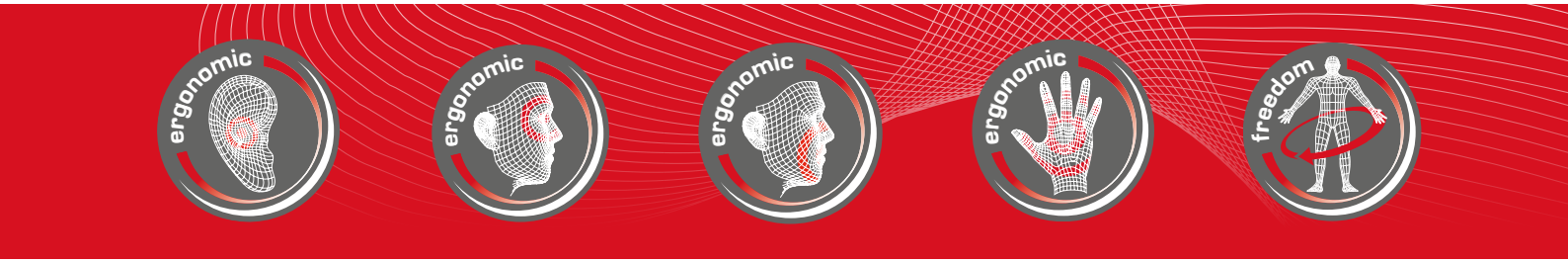
A PRODUCT SELECTION 100% SUITED TO THE PROFESSIONALS' NEEDS

- A complete range: from standard products to highly specialized solutions
- Providing head-to-toe protection
- Quality, innovative and comfortable products
- Leading brands: Honeywell, Miller by Honeywell, Howard Leight by Honeywell

EFFECTIVE AND ATTRACTIVE PACKAGING

- Rapid understanding of the hazards
- Information on applications
- Identification of the main product advantages

Discover the «Tradesmen PPE Offer Product Catalogue» : ask your Customer Service

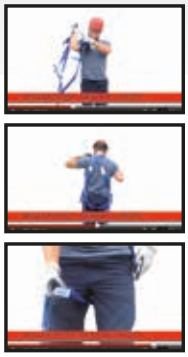


End-users are finally independent when faced with PPE!

VISUAL DISPLAY TOOLS TO GUIDE THE PPE PURCHASE

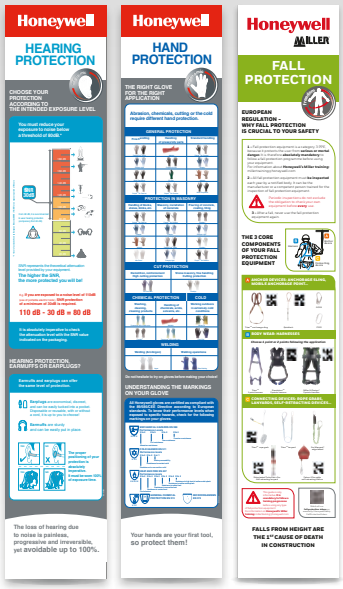
- Clear and explanatory packaging
- Comprehensive educational selection guides
- QR codes leading to demonstration videos

Live videos on your smartphone !



CLEAR CHOICE GUIDES

- Available for all product families
- Identification of major standards
- Include reminder of the main hazards
- Concise information to make it easy to make the best choice



A READY TO INSTALL SOLUTION FOR HONEYWELL RESELLERS

WITH…
EASY-TO-SET UP MERCHANDISING SOLUTIONS

- For the shelf space or on specially-designed display stands
- All products delivered with individual barcode and user guide

For the points of sales

WITH…
COMPLETE TOOLS AND FULL SUPPORT

- A dedicated sales team
- Database of products including marketing and logistical data, such as packshots, lifestyle and 360° pictures, product descriptions, etc.

For e-commerce platforms

WITH…
PPE ACTIVITY STIMULATION THROUGHOUT THE YEAR

- Annual promotion plan with dedicated pallet boxes for temporary campaigns
- Regular new product introductions

For the points of sales or for web platforms

Hearing Protection

Excessive noise is dangerous for your hearing

Hearing Conservation Solutions

Don't turn a deaf ear!

Noise-induced hearing loss rarely happens overnight. Rather, it accumulates over time with every unprotected exposure to hazardous noise. We are born with around 20,000 hair cells in each ear. Above 80 decibels (for 8 hours), noise can destroy these hair cells and gradually lead to deafness. This deafness is sadly irreversible, but it is entirely preventable.

To help HSE managers to develop and deploy effective and suitable hearing conservation programs for their environment, Howard Leight offers a wide range of solutions: innovative products, advice, educational and training tools, and on-site fit testing to ensure that hearing protectors fit the wearer. The Howard Leight brand is a global leader in passive and intelligent hearing protection solutions, and the founder of the HearForever® hearing conservation initiative.

Let's put an end to hearing loss! Choose the hearing protection that suits you best and that you can wear comfortably 100% of the time when you are exposed to noise.

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Experts in preventing occupational hearing loss for more than 30 years.

Howard Leight developed the first polyurethane foam earplug and the first banded earplugs more than 30 years ago.

Today, Howard Leight has several accredited acoustic laboratories, with international teams of engineers and hearing aid specialists. With its expertise in preventing occupational hearing loss, Howard Leight has developed technologies that make it the world leader in the field:

• Innovative patented technologies to bring a constant improvement in comfort and easy fitting of the hearing protector.

- Polyurethane foam: its patented technology (semi-open cell structure) makes it easy to insert into the ear canal for increased comfort.

- Conforming Material Technology™: body heat softens the material to make it more flexible and exert less pressure in the ear canal.

• A wide variety of shapes, sizes and colors to allow users to choose the protector that suits them best. Users can choose the product that they find most comfortable and that they are happy to wear 100% of the time they are exposed to noise. We offer options according to the choice of comfort and/or compatibility with other PPE.

• Ultra-innovative communication system:
- In-ear communication system
- Automatic fit testing
- Integrated dosimetry
- Active Noise Reduction
- Improved communication

Hearing Conservation

Effective hearing protection is not simply a product offering the highest attenuation value, but the best protection for each employee in his or her environment. It is about reducing hearing loss associated with noise and thus improving safety.
Howard Leight helps HSE managers to meet the challenges of a good Hearing Conservation program:

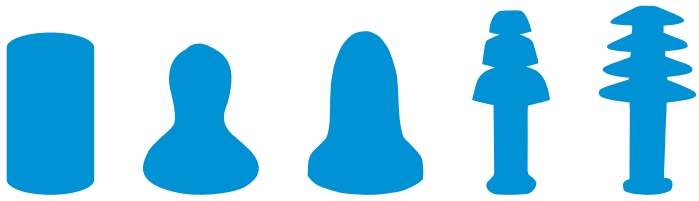
- Reducing costs/complaints
- Monitoring “at risk” employees
- Choosing the most suitable product(s)
- Providing the best protection for every employee
- A good balance between protection and communication
- Training

Howard Leight provides training materials to support you in your daily hearing conservation efforts. Please ask us for these materials to raise awareness among your employees of the various risks associated with noise-induced hearing loss and the use of PPE in noisy environments.

Selecting the proper earplug

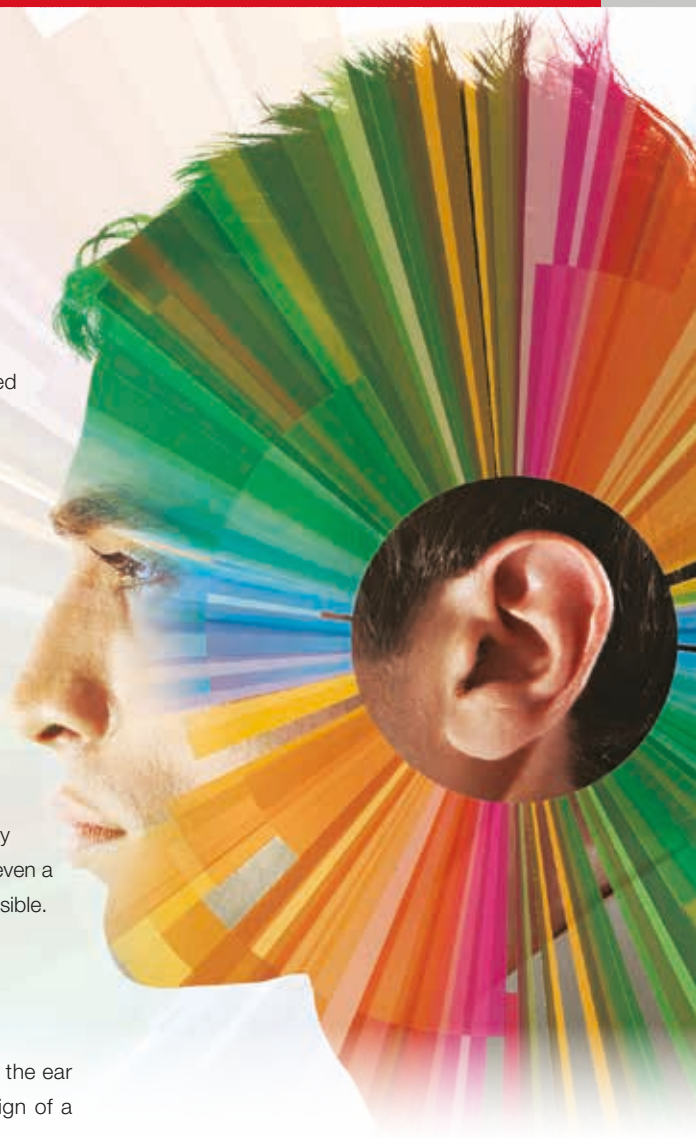
Fit-testing allows a worker to try a variety of hearing protectors that may be suitable. Often, the worker’s first choice of earplugs is not the best. Here are some selection tips that have proven useful in one-on-one training.

- **General earplug shapes**
- **Size:**
  Look at the ear canal opening to determine if a different size would be helpful. Women often have smaller ear canals than men.
- **Shape:**
  Ear canal openings may appear as round, oval or a slit. A foam earplug often fills an oval or slit in the ear canal.
- **Ease of insertion:**
  An earplug with a stem may be easier for some workers to insert.

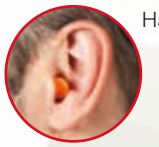


Earplug size guide

Fix-A-Fit

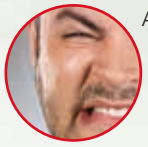


Addressing underprotection



Having an earplug in the ear is no guarantee of adequate protection. Fit-testing often reveals poor protection levels that can be corrected with simple steps.

Eliminating discomfort



An uncomfortable earplug potentially reduces wear time, and is often a sign of an improper fit or incorrect sizing. Take the time to find the proper earplug style and fit that are best for you and will provide adequate protection the entire work shift.

Fixing hidden leak

A hidden leak can significantly reduce protection levels. The earplug may appear to be inserted correctly, but improper sizing and selection or even a crease in the earplug may cause an acoustic leak that is not readily visible.

Too much earplug showing

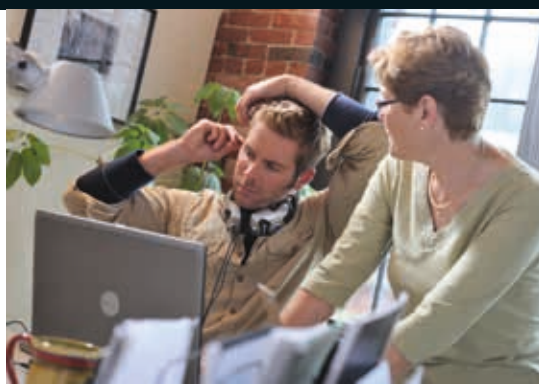
To effectively block noise, nearly all of the earplug needs to be inside the ear canal. Too much earplug showing outside of the ear canal is a sign of a shallow insertion, not deep enough to adequately block noise.

HOW TO PROPERLY INSERT EARPLUGS

STEP 1		**Roll:** For roll-down foam earplugs, start rolling the foam gently to avoid creases. Then roll firmly to make the cylinder as small and stiff as possible. **Move quickly** to next step so that the earplug doesn't expand before insertion.
STEP 2		**Pull:** Reach over the head to pull OUT (or for some people, pull UP or BACK) on the outer ear. Have someone observe and give you feedback about which pull-direction is most effective in opening the ear canal for a better fit.
STEP 3		**Insert:** Insert the earplug far enough so that it goes around the bend in the ear canal. This often feels sensitive (not painful), or may trigger a cough reflex. This is normal. Let go of the ear after the earplug is fully inserted.

Honeywell HOWARD LEIGHT

Hearing Conservation



VeriPRO®

A personal approach to Hearing Conservation

VeriPRO® makes it easy to get a clear and accurate idea of your employees' hearing protection. Find out whether they are receiving optimal protection, require additional training on how to fit their earplugs, or need to try a different model. VeriPRO® uses sophisticated software in a user-friendly format to calculate the Personal Attenuation Rating (PAR) your employees are receiving from their earplugs.

VeriPRO® provides a precise, real-time image of the effectiveness of your earplug and can identify whether the employee:

- Has been given the best possible protection
- Needs additional training
- Needs to try a different earplug (shape, size, etc.)
- A unique tool to measure personal attenuation
- Allows you to monitor and document whether your employees know how to wear their earplugs properly
- Works with any earplug

For more information on VeriPRO®, please contact us.

EU Directive 2003/10/EC

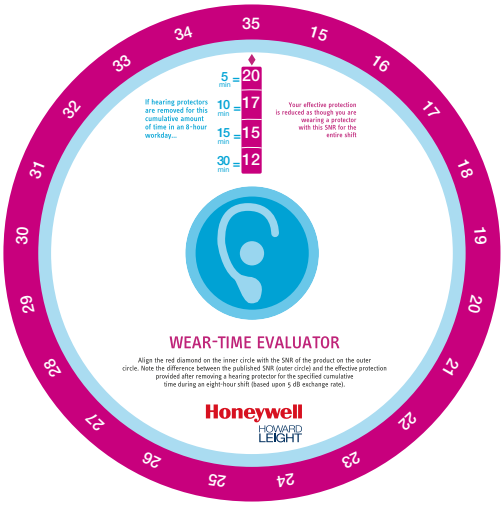
	DAILY EXPOSURE OF 8 HOURS	PEAK EXPOSURE
Hearing protectors to be provided to every employee	80 dB*	135 dB
Hearing protectors to be worn	85 dB*	137 dB
Exposure limit value	87 dB*	140 dB

*dB = decibels

PPE DIRECTIVE 89/686/EC.
Main standards relating to hearing protection.

STANDARDS	
EN 352/1	**Earmuffs**
EN 352/2	**Earplugs**
EN 352/3	**Cap-mounted earmuffs**
EN 352/4	**Level-dependent earmuffs**
EN 458	**Recommendations for the selection, use, care and maintenance of personal protective equipment (PPE)**

Hearing Conservation



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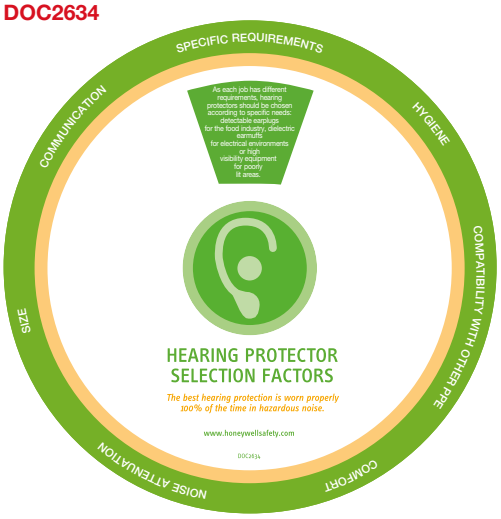

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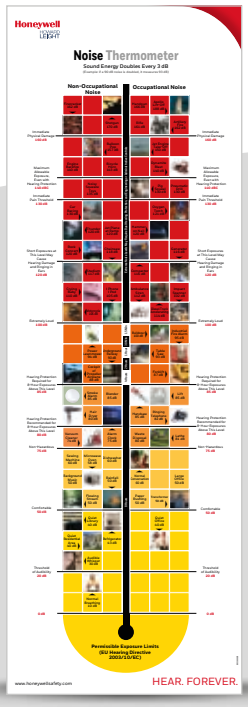

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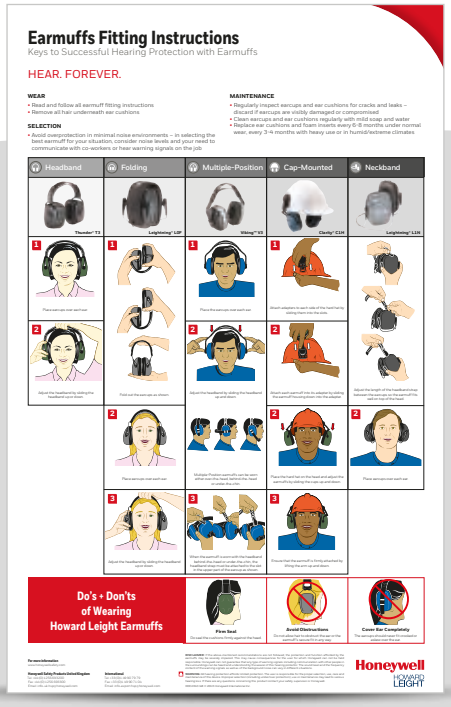

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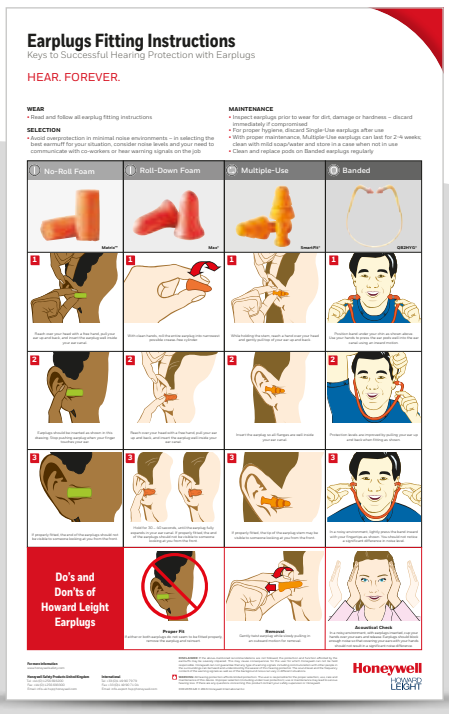


Earplugs

Single-Use

These earplugs are an economical solution, ideal for work situations that demand a high degree of comfort, frequent changes or where hygiene conditions prohibit reuse.

All single-use uncorded earplugs are supplied: in boxes of 200 pairs or cases of 2000 pairs.
All single-use corded earplugs are supplied: in boxes of 100 pairs or cases of 1000 pairs (except Bilsom 304).

THE H M L DATA FOR ALL OUR PRODUCTS CAN BE FOUND ON PAGES 40, 41, 42 and 43.

Firm Fit

New

Firm Foam Reinvented. More comfort. More Protection.

FEATURES AND BENEFITS

SNR 37

- **40% Softer**
  You can feel that Firm Fit is softer than other cylinder shape earplugs when you hold it.
- **29% Less Pressure**
  Firm Fit exerts less expansion pressure on the ear canal than other cylinder shape earplugs.
- **Greater Protection**
  With an SNR of 37dB, Firm Fit provides excellent protection in most medium-to-high noise environments.
- **Easy to insert**
  Requires less pressure to roll down. Slow recovery rate gives you plenty of time to correctly insert in ear canal.
- **Easy to see**
  Distinct warning orange colour makes compliance checks easy.

Ref.	Description	Packaging	Unit of Measure
10 330 10	Firm Fit uncorded	polybag, 200 pair per box	Box of 200
10 330 12	Firm Fit corded	polybag, 100 pair per box	Box of 100
10 330 13	Firm Fit uncorded	paperbag, 100 pair per box	Box of 100
10 330 14	Firm Fit corded	paperbag, 100 pair per box	Box of 100

We've Listened to Workers.
Extensive research into earplug preferences revealed that some workers prefer a firm foam earplug. They gain a sense of security from feeling the earplug in their ear. And while they like knowing the earplug is there, workers want greater comfort. Independent tests reveal that Firm Fit outperforms other cylinder shaped earplugs, providing workers with a more comfortable option.

Earplugs — Single-Use

BILSOM 303/304®

Energized for personal comfort and performance.

FEATURES AND BENEFITS

SNR 33

- Tapered design for ease of insertion.
- Leight Stripe™ formula: a slick blend of yellow and white polyurethane foam that feels soft to the touch and in your ear.
- Easy to roll and insert correctly: Resists tendency to back out of the ear canal. Less expansion pressure for long-term comfort.
- Smooth, soil-resistant skin prevents dirt build-up on earplugs.
- Available in two sizes to ensure a perfect comfortable fit.

Ref.	Description	Packaging
10 050 73	Bilsom 303 large (L)	Box of 200 pairs*
10 050 74	Bilsom 303 small (S)	Box of 200 pairs*
10 071 92	Bilsom 303 large (L)	Box of 200 pairs**
10 071 93	Bilsom 303 small (S)	Box of 200 pairs**
10 001 06	Bilsom 304 large (corded) (L)	Box of 100 pairs***
10 001 07	Bilsom 304 small (corded) (S)	Box of 100 pairs***

* In polybag, case of 2000 pairs
** Pocket pack of 10 pairs, case of 2000 pairs
*** In polybag, case of 500 pairs

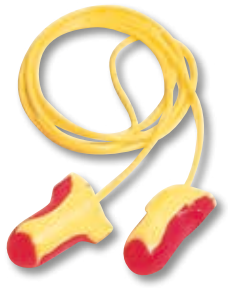
Laser Lite®

Colorful protection.

FEATURES AND BENEFITS

SNR 35

- Bright colors make the Laser Lite visible and appealing.
- The foam expands to mould to the shape of virtually every ear.
- Contoured T-shape for easy insertion and removal.



Ref.	Description	Packaging
33 011 05	Uncorded	Box of 200 pairs, case of 2000 pairs
33 011 06	Corded	Box of 100 pairs, case of 1000 pairs

Honeywell HOWARD LEIGHT

Earplugs — Single-Use

MAX®

High SNR attenuation index and optimum comfort.

FEATURES AND BENEFITS — SNR 37

- The world's most-used polyurethane foam earplug.
- Improved shape for easy insertion and a better fit.
- Bell shape for maximum in-ear comfort.
- Smooth, soil-resistant skin prevents dirt build-up.

Ref.	Description	Packaging
33 011 61	Uncorded	Box of 200 pairs, case of 2000 pairs
33 011 30	Corded	Box of 100 pairs, case of 1000 pairs

Max Lite®

Guaranteed comfort for smaller ear canals.

FEATURES AND BENEFITS — SNR 34

- Ideal size for people with smaller ear canals.
- Low-density foam which expands gently for ultra-comfortable long-term wear.
- Contoured T-shape for easy handling and fit.

Ref.	Description	Packaging
33 011 20	Uncorded	Box of 200 pairs, case of 2000 pairs
33 011 21	Corded	Box of 100 pairs, case of 1000 pairs

Honeywell HOWARD LEIGHT

Earplugs — Single-Use

MULTI MAX®

One product, two sizes.

FEATURES AND BENEFITS — **SNR 35**

- Provides an exceptional fit while simplifying inventory management.
- Smooth, soil-resistant skin prevents dirt build-up.
- The foam expands to mould to the shape of virtually every ear.

Ref.	Description	Packaging
33 011 09	Uncorded	Box of 200 pairs, case of 2000 pairs

MATRIX®

“no-roll” foam.

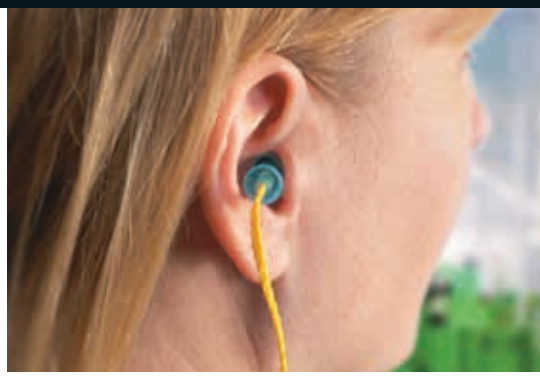
FEATURES AND BENEFITS — **SNR 29**

- Patented no-roll design makes insertion fast and easy.
- Smooth outer skin and reduced diameter provide long-term comfort.
- Instant protection: no need to wait for the foam to expand.
- One attenuation profile: suitable for every possible application (orange SNR 29).
- Uniform attenuation for good communication.

Ref.	Description	Packaging
10 112 36	Matrix Orange uncorded	Box of 200 pairs, case of 2000 pairs
10 125 21	Matrix Orange corded	Box of 100 pairs, case of 1000 pairs

Honeywell HOWARD LEIGHT

Earplugs — Multiple-Use



NEUTRON™

New

Open yourself up to the world. Protect yourself against noise.

In an increasingly interconnected world, Neutron allows people who wear earplugs—because they are exposed to noise that could damage their hearing—to hear and talk to their colleagues without having to take them out. With Neutron, you'll miss nothing while ensuring that you stay protected against the moderate noise levels encountered in the modern workplace.

FEATURES AND BENEFITS

SNR 20

- Proven protection.
- Modern design in the shape of earphones.
- Everyday comfort.
- Unique detachable cord system.
- HearPack™ storage case.

Ref.	Description	Packaging
10 298 10	Corded	Box of 50 pairs, case of 500 pairs

SmartFit®

A revolution in terms of fit.

FEATURES AND BENEFITS

SNR 30

- CMT technology: malleable material that utilizes body heat to adapt to the shape of the ear canal.
- Superior comfort and an individual fit.
- Simplified inventory control - a single product fits almost every user.
- Unique detachable cord system.
- HearPack™ storage case.

Ref.	Description	Packaging
10 112 39	Corded	Box of 50 pairs, case of 500 pairs

Fusion®

Total protection, exceptional comfort and a perfect fit.

FEATURES AND BENEFITS

SNR 28

- Central FlexiFirm® stem for easy fitting.
- SoftFlanges™ for superior comfort and fit.
- Unique detachable cord system.
- HearPack™ storage case.

Ref.	Description	Packaging
10 112 82	Corded, standard size	Box of 50 pairs, case of 500 pairs
10 112 81	Green corded, small	Box of 50 pairs, case of 500 pairs

CLARITY® 656

Clarity™ technology in an earplug.

FEATURES AND BENEFITS **SNR 22**

- Patented design with an integrated ultra-thin membrane for moderate, linear attenuation.
- Filters out harmful noise but allows speech through.
- Ultra-flexible rings for a perfect fit and enhanced comfort.
- Rigid central stem for ease of insertion and removal.
- Practical plastic storage case.

Ref.	Description	Packaging
10 053 29	Corded, large	Box of 10 pairs, case of 100 pairs
10 053 28	Corded, small	Box of 10 pairs, case of 100 pairs

AirSoft®

Air flow for optimum comfort.

FEATURES AND BENEFITS **SNR 30**

- Earplugs with air cushion and internal noise-blocking flanges.
- Four flanges for a better seal in the ear canal.
- Elongated shape for a better fit.
- Integrated stem for ease of insertion and removal.
- Supplied in pairs in a practical plastic storage case.

Ref.	Description	Packaging
10 306 10	Uncorded	Box of 50 pairs, case of 500 pairs
10 306 11	White nylon cord	Box of 50 pairs, case of 500 pairs
10 306 12	Red PVC cord	Box of 50 pairs, case of 500 pairs

Quiet®

Easy handling, better fit.

FEATURES AND BENEFITS **SNR 28**

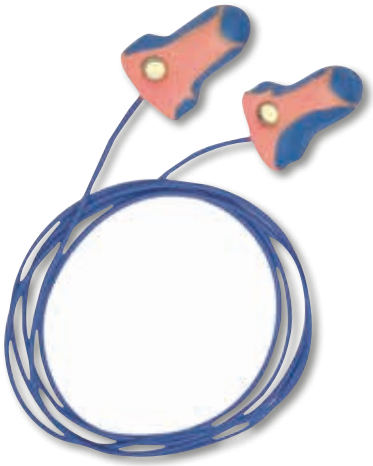
- Patented no-roll design is easy to handle and fit.
- Contoured shape provides a close fit in the ear canal.
- Integrated stem makes insertion quick and easy.
- Supplied in pairs in a practical plastic storage case.

Ref.	Description	Packaging
10 284 56	Uncorded	Box of 50 pairs, case of 500 pairs
10 284 57	Corded	Box of 50 pairs, case of 500 pairs

Earplugs — Detectable

All our detectable earplugs are designed for high visibility and detectability. They are available in two versions: single-use or reusable earplugs. They have been specially designed for working environments where contamination from foreign objects is unacceptable.

Laser Trak®



The highest attenuation rate in its class.

FEATURES AND BENEFITS — **SNR 35**

- The foam expands to fit virtually every ear.
- Non-ferrous metal grommet and bright colors easily detected by visual and magnetic inspection.

Ref.	Description	Packaging
33 011 67	Corded	Box of 100 pairs, case of 1000 pairs

SmartFit® Detectable

Detectable earplugs for long-term comfort.

FEATURES AND BENEFITS — **SNR 30**

- Delivers superior comfort and a truly individual fit.
- Simplified inventory management: a single product fits almost every user.
- Blue color to aid detection.
- Easily detectable metallic cord and ring.

Ref.	Description	Packaging
10 125 22	Corded	Box of 50 pairs, case of 500 pairs

Fusion® Detectable

Protection, comfort and enhanced fit for reusable and detectable earplugs.

FEATURES AND BENEFITS — **SNR 28**

- Patented dual-material design.
- Central FlexiFirm® stem for ease of insertion, SoftFlanges™ for exceptional comfort and fit.
- Easily detectable metal cord and stem.
- Product washable in lukewarm water; lasts for several weeks.

Ref.	Description	Packaging
10 112 34	Standard size, corded	Box of 50 pairs, case of 500 pairs
10 112 35	Small, corded	Box of 50 pairs, case of 500 pairs

Earplug dispensers

Save time and space and reduce waste. Whatever the use of the earplugs, dispensers offer an economical, hygienic and user-friendly solution to hearing protection.

DISTRIBUTOR Leight® Source 400 (LS400)

FEATURES AND BENEFITS

The Leight® Source 400 dispenser can be fixed to a wall or placed on a table or workstation. Entirely transparent, it can be refilled before it runs out. This system dispenses earplugs with a twist knob, and can hold 400 pairs of Howard Leight single-use earplugs, such as Max, Max Lite, Laser Lite, MultiMax, Matrix, Firm Fit and Bilsom 303.

Ref.	Description		
10 130 40	Leight® Source 400 dispenser (supplied empty)		
10 062 02	Leight Source 400 dispenser, supplied with 400 pairs of Bilsom 303 L	**10 062 03**	Leight Source 400 dispenser, supplied with 400 pairs of Bilsom 303 S
Refill for Leight® Source 400: Refill box of 200 pairs, case of 2000 pairs:			
10 130 46	Max	**10 330 16**	Firm Fit
10 130 48	Max Lite	**10 130 42**	Matrix Orange
10 130 47	Laser Lite	**10 061 86**	Bilsom 303 L
10 130 45	MultiMax	**10 061 87**	Bilsom 303 S

LS400

Firm Fit

New

Refill bag Laser Lite

DISTRIBUTOR Leight® Source 500 (LS500)

New

FEATURES AND BENEFITS

The Leight Source 500 earplug dispenser is made of anodized aluminum and is designed to be mounted on a wall. This system dispenses earplugs with a twist knob. Ideal for large factories and processing plants with a zero-tolerance policy when it comes to packaging waste, the LS-500 dispenser can hold 500 pairs of Howard Leight single-use earplugs, such as Max, Max Lite, Laser Lite, MultiMax, Matrix, Quiet, Firm Fit and Bilsom 303.

Ref.	Description		
33 012 73	Leight® Source 500 dispenser (supplied empty)		
Refill for Leight® Source 500: Refill box of 500 pairs, case of 2000 pairs:			
33 011 65	Max	**10 330 15**	Firm Fit
33 012 72	Max Lite	**10 127 23**	Matrix Orange
33 012 71	Laser Lite	**10 175 73**	Bilsom 303 L
33 012 61	MultiMax	**10 175 74**	Bilsom 303 S
33 012 75	Quiet (200 pairs)		

LS500

Firm Fit

Refill Max

Leight® Source 100 for BILSOM 303 (LS100)

FEATURES AND BENEFITS

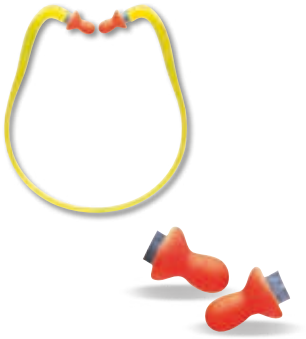
Box of 100 pairs of Bilsom 303 earplugs

Ref.	Description
10 058 52	Bilsom 303 large
10 058 50	Bilsom 303 small

Banded Earplugs

We offer a whole range of high performance features, including a patented band design that prevents pods from touching dirty or contaminated surfaces when they are put down. These banded earplugs are especially recommended for managers and for use in environments with intermittent exposure to noise.

QB1® HYG



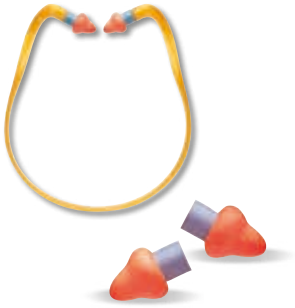
In-ear protection.

FEATURES AND BENEFITS — **SNR 26**

- Smooth, ergonomic pods for maximum protection.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Lightweight and portable, designed especially for environments with intermittent exposure to noise.
- Delivered with an additional pair of replacement pods.

Ref.	Description	Packaging
33 012 82	QB1HYG®	Box of 10 pairs
33 012 81	Replacement pods	Box of 50 pairs

QB2® HYG



Supra-aural protection.

FEATURES AND BENEFITS — **SNR 24**

- Soft pods rest partially in the ear to combine comfort and protection.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Light and portable.
- Delivered with an additional pair of replacement pods.

Ref.	Description	Packaging
33 012 80	QB2HYG®	Box of 10 pairs
33 011 81	Replacement pods	Box of 50 pairs

QB3® HYG

Semi-aural protection.

FEATURES AND BENEFITS — **SNR 23**

- Super-soft lightweight cushions rest outside the ear canal for unparalleled comfort.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Light and portable: ideal for occasional use.
- Delivered with an additional pair of replacement pods.

Ref.	Description	Packaging
33 012 79	QB3HYG®	Box of 10 pairs
33 011 83	Replacement pods	Box of 50 pairs

PerCap®

Comfortable, lightweight and flexible banded earplugs.

FEATURES AND BENEFITS — **SNR 24**

- Super-soft, lightweight semi-aural pods rest outside the ear canal for unparalleled comfort.
- Multiple positions: over-the-head, under-the-chin or behind-the-neck wear.
- Compact, folding design for easy storage in pockets.
- Ideal for users exposed to intermittent noise.
- Lightweight, just 10 grams.

Ref.	Description	Packaging
10 059 52	Bilsom PerCap	Case of 10 pairs
10 059 80	Replacement pods	Box of 10 pairs

Noise-blocking earmuffs

OUR TECHNOLOGIES

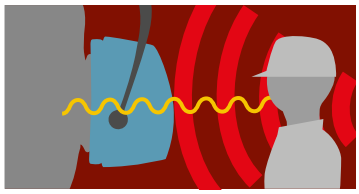
Noise-blocking earmuffs are a simple and effective way of protecting yourself. But they can be heavy and awkward or even place great pressure around your head. Howard Leight has taken these major comfort factors into account in offering a range of earmuffs with patented technologies.

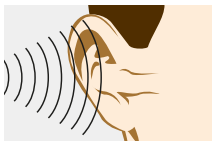
AIR FLOW CONTROL™ TECHNOLOGY

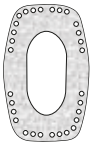
"AIR FLOW CONTROL" (AFC) is a patented technology offering maximum attenuation without increasing the size or weight of the earmuffs or the pressure on the head.

THE PROBLEM

Traditionally, in order to achieve greater attenuation in an earmuff, it was necessary to make larger, heavier, earcups that exerted great pressure on the head. This created earmuffs that were heavy and uncomfortable to wear.







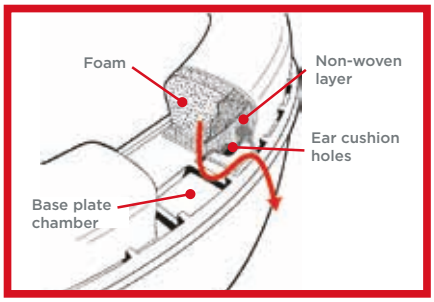
THE SOLUTION

The solution to this problem lies in the AIR FLOW CONTROL technology by Howard Leight. It acts as a vibration damper by controlling the stiffness of the cushion, thereby increasing noise attenuation without increasing the weight or size of the earmuffs.

HOW DOES IT WORK?

Sound is the displacement of waves through the air that reach first the outer then the inner ear. By precisely controlling the flow of air inside the cushion, it's possible to act as a damper on the ear. The secret lies in the uniquely constructed ear cushion and earcup baseplate design. The inside of the cushion is made of a non-woven layer and a series of holes that allow the air to circulate. The patented base plate design allows the air to flow in a controlled manner from inside the cushion to outside. This system can therefore work as a vibration damper.

LOW FREQUENCY ATTENUATION



AIR FLOW CONTROL technology also provides a more linear attenuation over all frequencies (high and low). Compared to traditional hearing protectors, AFC provides a greater attenuation of damaging low-frequency noise.

WHY IS THE ATTENUATION OF LOW FREQUENCIES SO IMPORTANT?

One of the factors that influences our perception of words is what is known as the masking effect. How well we can hear speech in a noisy environment depends on the volume of the voice compared to the noise. The more noise is comprised of low frequencies, the more it will cover or mask the sound of a voice (e.g. if you're standing next to a steamroller you need to speak louder in order to be understood). Thus, a hearing protector that lets through a lot of low frequencies could allow for this masking effect and thus hinder optimal communication.

Conversely, a hearing protector with a good attenuation of low frequencies (as well as high frequencies) is able to protect, and at the same time optimise communication or the hearing of signals…

That is what AFC technology provides.

AIR FLOW CONTROL is a standard patented feature on all Howard Leight earmuffs in the Sync, Leightning, Thunder, Viking, Clarity and Impact ranges.

Noise-blocking earmuffs

Sync™

New

Listen to your music in complete safety.

Most radio earmuffs provide some level of hearing protection, but often sacrifice sound quality for attenuation. That's why we created Sync, the latest generation of passive earmuffs for active lifestyles. These stereo radio earmuffs protect your hearing, offer high-quality sound, and allow you to listen to the radio and personal audio devices safely at work and at home.

Sync™ Stereo

FEATURES AND BENEFITS

The Sync has no volume knobs or power switches and no batteries to replace. The ease of use of the Sync Stereo is enhanced by maintaining volume and power control through the MP3 player. Plus, the Sync Stereo's state-of-the-art bass chamber enhances bass sounds that are typically sacrificed in traditional industrial stereo earmuffs.

The Sync™ Stereo Volume Management Technology (VMT™) maintains sound levels from portable audio equipment at safe levels.

SNR 31

Audio device not included

Ref.	Description	SNR
10 301 11	Sync Stereo earmuffs (supplied in blister pack)	SNR 31

Noise-blocking earmuffs

Sync™ with digital AM/FM radio

FEATURES AND BENEFITS

- 10 preset stations and volume memory can be personalized for each user.
- Lightweight slim ear cup design, more comfortable to wear during the working day.
- LCD display.
- All Sync earmuffs feature a 3.5 mm AUX input jack and connection cable.

Ref.	Description	SNR
10 303 30	Sync™ Digital AM/FM radio earmuffs (supplied in blister pack)	SNR 29

SNR 29

Sync™ high visibility with digital AM/FM radio

FEATURES AND BENEFITS

- Light green/yellow ear cups provide high visibility and contrast, and the reflective headband illuminates under light for increased visibility and safety.
- All Sync earmuffs feature patented Air Flow Control™ technology, delivering optimum attenuation across all frequencies without increasing ear cup size or weight.

Ref.	Description	SNR
10 303 32	Sync™ Hi-Vis Digital AM/FM radio earmuffs (supplied in blister pack)	SNR 29

SNR 29

Sync™ Electo®

FEATURES AND BENEFITS

- Separate knobs adjust volume for radio and sound amplification.
- The Sync Electo® is available in headband and helmet models. Helmet model includes a set of adapters for use with the most popular hard hats.
- Built-in microphones reproduce ambient sounds, retaining sense of direction.

Ref.	Description	SNR
10 303 33	Sync™ Electo® earmuffs	SNR 29
10 303 34	Electo-H ear cups	SNR 29

SNR 29

Noise-blocking earmuffs

Clarity™

Using Howard Leight's patented Sound Management Technology™ (SMT), Clarity series earmuffs improve employee safety by blocking harmful noise while allowing voice and signal frequencies to be heard more naturally.

FEATURES

Advanced sound processing technology for enhanced communication in the workplace.

- Blocks noise but helps you to hear the people around you, as well as alarms and other warning signals.
- Does not isolate the user from the environment, but offers increased safety particularly in sensitive environments.
- Dielectric construction suitable for all workplaces, especially electrical environments.
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear.
- Ventilated inner headband minimizes pressure on the head and guarantees increased breathability in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Quick-click height adjustment remains fixed during wear.
- Snap-in ear cushions make replacement quick and easy.

Clarity™ EARMUFFS

FEATURES AND BENEFITS

- Comfortable over-the-head design ideal for many applications.
- Ventilated inner headband reduces pressure on the head and guarantees increased breathability in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.

Ref.	Description	SNR
10 111 42	C1	SNR 25
10 111 46	C3	SNR 33

C1 SNR 25

Clarity™ MULTI-POSITION EARMUFFS

FEATURES AND BENEFITS

Allows the wearer to select position: over-the-head, behind-the-neck or under-the-chin.

Ref.	Description	SNR
10 111 45	C2	SNR 30

C2 SNR 30

Honeywell HOWARD LEIGHT

Noise-blocking earmuffs

Clarity™ FOLDING EARMUFFS

FEATURES AND BENEFITS

- Convenient folding design for easy storage.
- Belt storage case also available.

Ref.	Description	SNR
10 111 43	C1F	SNR 26

Clarity™ EAR CUPS

FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 3711, 3712 & 3721 adapters included.

Ref.	Description	SNR
10 112 62	C1H	SNR 26
10 112 64	C3H	SNR 30

Leightning®

With its steel construction, the Leightning series delivers high performance and durability that withstands daily wear and tear without compromising comfort.

FEATURES

- Patented Air Flow Control™ for optimum attenuation across all frequencies, without increasing size or weight.
- Snap-in ear cushions make replacement quick and easy.
- Padded foam headband for long-term comfort with minimal pressure on the head.
- Multiple attenuation levels for attenuation targeted at different environments.
- Telescopic height adjustment ensures that the earmuffs remain fixed during use.
- Superior comfort - the ultra slim L0 models are ideal when compact earmuffs, reliable protection and a high degree of comfort are required.
- HV (high visibility) and reflective models which illuminate under light for enhanced visibility and safety. Ideal for wearing at night and in inclement weather conditions.

Leightning® EARMUFFS

FEATURES AND BENEFITS

Comfortable over-the-head design ideal for many applications.

Ref.	Description	SNR
10 109 22	L1	SNR 30
10 109 23	L2	SNR 31
10 109 24	L3	SNR 34
10 139 41	L3HV	SNR 34

Noise-blocking earmuffs

Leightning® FOLDING EARMUFFS

FEATURES AND BENEFITS

- Folding headband for easy storage.
- Belt storage case also available.

Ref.	Description	SNR
10 134 61	L0F	SNR 25
10 119 97	L2F	SNR 32
10 139 42	L2FHV	SNR 32
10 002 51	Folding earmuff belt case	

Leightning® HEAD STRAP EARMUFFS

FEATURES AND BENEFITS

- Sleek behind-the-neck design for use with face shields, visors, hard hats and other PPE.
- Includes attached elastic headband strap for better positioning.
- The L0N features ultra-slim, lightweight ear cups, ideal for use with welding masks.

Ref.	Description	SNR
10 134 60	L0N	SNR 22
10 119 94	L1N	SNR 29
10 119 95	L2N	SNR 31
10 119 96	L3N	SNR 32

Leightning® EAR CUPS

FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 3712, 3711 & 3721 adapters included.

Ref.	Description	SNR
10 125 39	L1H	SNR 28
10 125 41	L3H	SNR 31
10 150 21	L1HHV	SNR 28

Noise-blocking earmuffs

Thunder®

The Thunder series is designed with everyday comfort in mind. Its dielectric construction withstands use and abuse, while protecting employees in electrical environments. Patented Air Flow Control™ technology provides optimal attenuation across all frequencies and snap-in ear cushions for easy maintenance.

FEATURES

- Dielectric construction suitable for all workplaces, especially electrical environments.
- Patented Air Flow Control™ for optimum attenuation across all frequencies, without increasing size or weight.
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Quick-click height adjustment remains fixed during wear.
- Snap-in ear cushions make replacement quick and easy.

Thunder® EARMUFFS

FEATURES AND BENEFITS

- Comfortable over-the-head design ideal for many applications.
- Ventilated inner headband minimizes pressure on the head and guarantees increased breathability in warm/humid climates (T2 and T3 only).

Ref.	Description	SNR
10 109 28	T1	SNR 30
10 109 29	T2	SNR 33
10 109 70	T3	SNR 36
10 158 20	T2HV	SNR 33

T2HV SNR 33

T3 SNR 36

Thunder® FOLDING EARMUFFS

FEATURES AND BENEFITS

- Convenient folding design for easy storage.
- Belt storage case also available.

Ref.	Description	SNR
10 116 00	T1F	SNR 31
10 002 51	Folding earmuff belt case	

T1F SNR 31

Thunder® EAR CUPS

FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 3712, 3711 & 3721 adapters included.

Ref.	Description	SNR
10 125 33	T1H	SNR 29
10 125 34	T2H	SNR 30

T1H SNR 29

Noise-blocking earmuffs

Viking® MULTIPLE POSITION EARMUFFS

Adjustable headband.

FEATURES AND BENEFITS

- Adjustable headband allows wearer to select position: over-the-head, behind-the-neck or under-the-chin.
- The alternative to ear cups fitted to hard hats: compatible with hard hats, face shields, breathing masks and other PPE.
- Ventilated inner headband minimizes pressure on the head; breathes more easily in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Snap-in ear cushions make replacement quick and easy.
- Elastic headband strap for better positioning.
- Dielectric construction suitable for all workplaces.
- Now with Air Flow Control™ technology.

Ref.	Description	SNR
10 109 25	Viking V1	SNR 30
10 111 70	Viking V3	SNR 32

V1 SNR 30

V3 SNR 32

MACH™ 1

Economical protection for short-term use.

FEATURES AND BENEFITS

- Economic design offers good protection at a low price.
- Extremely light earmuffs.
- Dielectric construction.

Ref.	Description	SNR
10 104 21	Mach 1	SNR 24

Mach 1 SNR 24

QM24+®

Ultra-lightweight, multiple-position, dielectric earmuff designed for extended wear at an affordable price.

FEATURES AND BENEFITS

- Adjustable headband for over-the-head, behind-the-neck or under-the-chin wear.
- An alternative to cap-mounted earmuffs when using other PPE.
- Dielectric construction suitable for electrical environments.

Ref.	Description	SNR
33 021 52	QM24+	SNR 26

QM24+ SNR 26

Noise-blocking earmuffs

Impact®

Impact earmuffs enhance the perception of certain sounds through advanced sound amplification technology. Wearers hear important sounds in their environment – co-workers, alarms and warning signals – at a safely amplified level. Helps eliminate the feeling of isolation.

FEATURES

- Amplification of ambient sounds limited to a safety level of 82 dB – response technology reverts to passive hearing protection if the noise reaches 82 dB.
- Sound amplification increases communication and awareness – employees can hear alarms/warning signals, co-workers' voices.
- Directional stereo microphones amplify and enhance sound for more natural hearing.
- Snap-in ear cushions make replacement quick and easy.
- Impact Sport and Impact Pro have the basic features of the Impact range, with added features designed for sport shooting and field use.
- Can be connected to MP3 players and smartphones.
- Ideal for recreational and professional shooting, both indoors and outdoors.

Impact® Sport FOLDING EARMUFFS

FEATURES AND BENEFITS

- Patented Air Flow Control™ technology for optimum attenuation across all frequencies.
- Convenient folding design for easy storage.
- Automatic shut-off after 4 hours.
- Includes 2 AAA batteries for 350 hours of use.
- Belt storage case also available.

Ref.	Description	SNR
10 135 30	Impact Sport	SNR 25

Impact® PRO EARMUFFS

New

FEATURES AND BENEFITS

- Impact earmuffs with excellent sound amplification and best attenuation on the market: SNR 33
- Amplifies low volume sound and conversation (4 times as loud).
- Easy to use: just one volume control button.
- Includes 2 AAA batteries.
- Can be connected to MP3 players and smartphones.
- Ideal for recreational and professional shooting, both indoors and outdoors.
- Patented Air Flow Control™ technology for optimum attenuation across all frequencies.

Ref.	Description	SNR
10 189 53	Impact PRO	SNR 33

Impact® EAR CUP HEADBAND

FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not needed.
- Ear cups work with a wide range of hard hats.
- Pair of 3711, 3712 & 3721 adapters included.
- Includes 2 AA batteries for 140 hours of use.

Ref.	Description	SNR
10 103 76	Impact	SNR 28
10 106 32	Impact ear cups for fitting to hard hats	SNR 27

Intelligent hearing protection and communication system

QUIETPRO® QP100 EX

Protection and communication in high-noise environments.

Developed in conjunction with the international energy company Statoil, the QUIETPRO® QP100EX is the only intelligent hearing protection and communication system that provides smart personal hearing protection, verifiable personal noise exposure measurement, and the clearest communication throughout a full range of work environments. The QUIETPRO® QP100EX transforms a worker's hearing and ability to communicate clearly from a point of vulnerability to a productivity advantage.

FEATURES AND BENEFITS

- Personal real-time noise monitoring to prevent hearing loss.
- Clear communication even in rapidly changing, high-noise environments.
- Intrinsically safe for potentially explosive environments.
- In-ear headset.
- Fully adaptive hearing protection.
- Digital Active Noise Reduction.
- Exclusive in-ear dosimetry.
- Superior digital processing.

Contact us for more information about QUIETPRO.

Kits

Designed for forestry and landscape gardening work, our new Forestry and Garden Kits offer users a turnkey solution for hearing and head protection.

FORESTRY KIT

FEATURES AND BENEFITS

- Forestry kit fully equipped with:
  - Leightning L1H ear cups,
  - bright orange polythene helmet
  - mesh face shield (ref. 10 178 00) : flexible, durable and easy to adjust; detachable peak/sun visor; integrated neck guard providing protection from debris and sun/rain.

Ref.	Description	SNR
10 172 91	Forestry Kit	SNR 28

GARDENING KIT

FEATURES AND BENEFITS

- Gardening Kit fully equipped with:
  - Leightning L1 headband
  - clip-on visor with brow guard (pre-assembled for convenience)
  - mesh face shield (ref. 10 178 00) : flexible, durable and easy to adjust; detachable peak/sun visor.

Ref.	Description	SNR
10 172 92	Gardening Kit	SNR 30

SPARE PARTS FOR FORESTRY AND GARDENING KITS

FEATURES AND BENEFITS

Ref.	Description
10 178 00	Mesh face shield complete with visor
10 172 93	Mesh face shield
10 172 94	Clear face shield

Accessories

BELT CLIP

FEATURES AND BENEFITS

A simple and convenient solution for attaching earmuffs to a belt or pocket when not in use. Lightweight, low profile design.

Ref.	10 167 30

OPTISORB®

FEATURES AND BENEFITS

Washable, 100% cotton sleeve slides over ear cup to absorb sweat or conserve warmth. Optisorb provides optimum comfort and hygiene in all weathers. Fits all Howard Leight earmuffs.

> Box of 50.

Ref.	33 021 01

HYGIENE KITS

FEATURES AND BENEFITS

For extended earmuff performance and life as well as improved hygiene, snap-in ear cushions and foam inserts should be replaced every 6 months, or more often with heavy use. Each kit comes with one pair of ear cushions and one pair of foam inserts.

Ref.	Description	Ref.	Description
10 060 80	Clarity® C1/C1F/C1H	10 119 99	Leightning L2/L2H/L2N/L2F/L2FHV
10 060 81	Clarity® C2/C3/C3H	10 120 00	Leightning L3/L3H/L3N/L3HV/Viking V3
10 109 74	Thunder® T1/T1H/T1F	10 080 00	Radio/Radio HV/Electo®/Electo H/Impact®/Impact H
10 109 75	Thunder T2/T2H/T2HV	10 152 80	Impact Sport/Sync Radio/Sync Radio HiViz/Sync Electo
10 109 76	Thunder T3/T3H	33 012 83	QM24+®
10 119 98	Leightning® L1/L1H/L1N/L0N/L1HHV/Viking® V1	10 302 20	Sync/Impact PRO

BILSOM COOL II EAR CUSHIONS

FEATURES AND BENEFITS

Absorbent ear cushions to improve overall comfort and hygiene. A dermatologically tested material absorbs 15 times its weight in moisture and keeps ears warm in cold climates. Bilsom® Cool ear cushions fit most makes of ear cup on the market.

Ref.	Description
10 003 65	Box of 5 pairs
10 003 64	Box of 100 pairs

Accessories

HELMET ADAPTERS

FEATURES AND BENEFITS

Howard Leight offers a large selection of snap-on adapters to fit a variety of hard hats. The durable plastic and metal styles withstand demanding conditions.

Ref.	Description	Ref.	Description
10 002 40	3702 Universal adapter	**10 002 47**	3716 Schubert
10 002 41	3710 Bolt-on adapter	**10 002 48**	3717 JSP Mark II & Mark III & Invincible
10 002 42	3711 Old Centurion model	**10 002 49**	3718 AO, Bullard, MSA V-Guard, North
10 002 43	3712 New Centurion model, Balance, Bullard, JSP Mark IV & Mark V, MSA, Voss, Opus, Auboueix Iris & Kara, Peltor G22 & G3000	**10 002 50**	3719 JSP
10 002 45	3714 Protector tuffmaster	**10 052 92**	3721 Protector 300/600/650, Sofop oceanic II & Oryon, Petzl Vertex
10 002 46	3715 Auboueix Brenus & Carolyn		

Polar Hood®

FEATURES AND BENEFITS

Hood provides protection from cold while maintaining optimal attenuation and high visibility. Patented side panels help eliminate gaps between ear cup and ear, reducing exposure to hazardous noise. For use with all Howard Leight earmuffs. Fits under most hard hats.

Ref.	Description
10 168 70	Size L/XL

FOLDING EARMUFF BELT CASE

FEATURES AND BENEFITS

Durable nylon with belt loops and easy-to-open Velcro® flap. Folds flat.
Fits Leightning® L2F, Leightning® Hi-Visibility L2FHV,
Thunder® T1F, Clarity® C1F and Impact® Sport earmuffs.

Ref.	10 002 51

AUDIOMETRIC CABIN

FEATURES AND BENEFITS

The cabin is supplied in separate panels, which are quick and easy to assemble.
The window and door can be placed on the left or the right for greater flexibility.
Excellent sound attenuation particularly in the critical 500 Hz band for reliable hearing tests. External dimensions: 950 mm (width), 1,050 mm (depth), 2,100 mm (height).

Ref.	10 003 63

Attenuation data

Single-use earplugs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Firm Fit	Mean		35,4	32,4	38,2	37,2	39,2	45,9	45,7	37	37	34	31
	SD		5,2	4,3	4,8	3,4	3,4	4,4	5,4				
	APV		30,1	28,0	33,4	33,8	35,8	41,5	40,4				
Bilsom 303/304	Mean	28.4	37.3	37.9	39.1	36.0	34.6	42.5	46.4	33	32	29	29
	SD	6.4	9.0	9.2	9.7	7.9	4.6	4.9	4.7				
	APV	22.0	28.3	28.7	29.4	28.1	30.0	37.6	41.8				
Max	Mean	34.6	37.1	37.4	38.8	38.2	37.9	47.3	44.8	37	36	35	34
	SD	3.0	4.5	4.3	3.7	3.5	4.0	3.5	7.2				
	APV	31.6	32.6	33.1	35.1	34.7	33.9	43.8	37.6				
Max Lite	Mean	-	35.5	36.7	39.0	37.4	33.8	41.9	43.3	34	32	32	31
	SD	-	6.3	7.1	6.6	6.0	3.7	3.8	4.7				
	APV	-	29.2	29.6	32.4	31.3	30.1	38.1	38.6				
Laser Lite	Mean	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
	SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
	APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
Multi Max	Mean	34.5	37.7	37.8	39.8	36.2	35.9	41.5	42.9	35	33	32	32
	SD	6.7	7.6	6.7	6.8	5.1	3.9	4.2	6.1				
	APV	27.8	30.1	31.1	33.0	31.1	32.0	37.3	36.8				
Matrix Orange	Mean	17.6	21.8	26.1	28.7	29.5	34.9	37.2	39.8	29	31	25	22
	SD	5.1	4.7	5.4	5.2	5.3	3.8	2.7	4.0				
	APV	12.5	29.4	20.7	23.5	24.2	31.1	34.5	35.8				

Multiple-use Earplugs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Neutron	Mean	18.8	18.8	17.8	19.3	25.3	29.1	25.6	20.3	20	21	18	14
	SD	8.6	8.4	6.4	5.1	5.1	3.8	4.7	3.0				
	APV	10.2	10.4	11.4	14.2	20.2	25.3	20.9	17.3				
SmartFit	Mean	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
	SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
	APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Fusion	Mean	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24
	SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5				
	APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4				
Clarity 656	Mean	23.3	23.0	21.3	21.5	24.3	30.8	28.6	39.4	22	24	19	17
	SD	5.4	5.9	6.2	5.3	5.5	3.9	6.3	6.4				
	APV	17.9	17.1	15.1	16.2	18.8	26.9	22.3	33.0				
AirSoft	Mean	31.0	29.8	28.6	30.5	32.5	33.6	35.4	39.1	30	29	27	25
	SD	4.6	5.0	5.6	5.5	4.3	4.2	7.2	4.6				
	APV	26.4	24.8	23.0	25.0	28.2	29.4	28.2	34.5				
Quiet	Mean	26.1	29.0	28.8	29.1	29.5	33.1	43.3	44.5	28	29	25	23
	SD	6.1	6.9	6.4	7.2	5.1	5.3	6.9	3.4				
	APV	20.0	22.1	22.4	21.9	24.4	27.8	36.4	41.1				

Attenuation data

Detectable earplugs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Laser Trak	Mean	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
	SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
	APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
SmartFit Detectable	Mean	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
	SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
	APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Fusion Detectable	Mean	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24
	SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5				
	APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4				

Banded earplugs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
QB1HYG	Mean	24.8	28.1	26.5	24.5	25.1	31.7	42.5	40.9	26	28	22	21
	SD	4.3	3.2	5.6	5.7	3.3	4.0	1.8	4.7				
	APV	20.5	24.9	20.9	18.8	21.8	27.7	40.7	36.2				
QB2HYG	Mean	22.5	24.7	22.7	18.7	22.5	30.8	35.8	34.6	24	26	20	19
	SD	5.4	4.4	4.8	1.8	3.6	4.9	3.8	5.8				
	APV	17.1	20.3	17.9	16.9	18.9	25.9	32.0	28.8				
QB3HYG	Mean	23.5	22.3	20.6	16.8	22.7	30.6	34.2	33.7	23	25	19	17
	SD	4.3	4.2	3.7	2.4	4.0	3.5	3.8	6.1				
	APV	19.2	18.1	16.9	14.4	18.7	27.1	32.4	27.6				
PerCap	Mean	21.4	22.5	21.5	19.0	22.6	30.3	35.7	38.8	24	27	20	18
	SD	4.8	3.5	3.6	2.9	2.7	3.1	4.2	4.3				
	APV	16.6	19.0	17.9	16.1	19.9	27.2	31.5	34.5				

Noise-blocking earmuffs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Sync													
Sync Stereo	Mean	19.2	21.2	23.1	28.1	31.7	34.1	38.5	39.3	31	32	28	23
	SD	3.0	3.4	2.4	2.4	3.1	3.1	2.4	3.7				
	APV	16.2	17.8	20.7	25.7	28.6	31.0	36.1	35.6				
Sync Radio	Mean	19.0	22.6	26.3	29.8	29.0	37.2	37.3	-	29	29	27	23
	SD	3.0	2.3	2.0	1.5	2.3	2.7	3.7	-				
	APV	16.0	20.3	24.3	28.2	26.7	34.5	33.6	-				
Sync Electo	Mean	19.0	22.6	26.3	29.8	29.0	37.2	37.3	-	29	29	27	23
	SD	3.0	2.3	2.0	1.5	2.3	2.7	3.7	-				
	APV	16.0	20.3	24.3	28.2	26.7	34.5	33.6	-				
Sync Electo H	Mean	16.7	19.9	20.8	25.6	30.9	30.5	35.4	36.1	29	30	26	21
	SD	3.8	2.7	3.3	2.3	2.2	2.7	2.9	4.0				
	APV	12.9	17.2	17.5	23.4	28.7	27.8	32.6	32.1				

Attenuation data

Noise-blocking earmuffs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Clarity													
Clarity C1	Mean	12.6	15.7	23.9	27.8	23.3	25.8	29.0	31.0	25	24	22	20
	SD	4.5	3.3	2.7	2.8	2.9	2.0	3.0	2.6				
	APV	8.1	12.4	21.2	25.0	20.4	23.8	26.0	28.4				
Clarity C3	Mean	21.1	25.6	33.3	37.5	34.9	32.2	38.8	33.5	33	31	32	29
	SD	4.1	3.1	2.5	2.9	2.9	1.9	4.0	4.4				
	APV	17.0	22.4	30.8	34.6	32.0	30.3	34.8	29.1				
Clarity C2	Mean	16.9	20.7	29.5	32.2	31.0	32.1	35.8	31.1	30	30	29	25
	SD	4.4	3.1	3.2	2.3	2.7	2.0	3.5	3.8				
	APV	12.4	17.6	26.3	29.9	28.3	30.0	32.3	27.3				
Clarity C1F	Mean	12.8	14.9	24.2	27.7	25.2	28.6	29.3	28.7	26	25	24	19
	SD	4.0	3.8	3.8	2.6	2.1	2.9	3.4	4.2				
	APV	8.8	11.1	20.4	25.1	23.1	25.7	25.9	24.5				
Clarity C1H	Mean	12.9	15.3	22.1	24.6	24.5	29.5	29.3	33.5	26	26	23	19
	SD	4.0	3.0	3.0	2.3	2.6	2.9	2.7	3.2				
	APV	8.9	12.3	19.1	22.3	21.9	26.6	26.6	30.3				
Clarity C3H	Mean	15.4	22.8	27.4	31.3	30.5	28.2	35.0	34.6	30	28	28	24
	SD	3.5	4.3	3.2	2.8	1.8	2.3	3.6	3.0				
	APV	11.9	18.5	24.2	28.5	28.7	25.9	31.4	31.6				
Leightning													
Leightning L1	Mean	17.9	20.3	22.9	28.3	32.9	32.3	39.3	35.1	30	31	28	23
	SD	5.3	2.5	2.8	1.7	2.9	3.8	2.8	4.0				
	APV	12.6	17.8	20.1	26.6	30.0	28.5	36.5	31.1				
Leightning L2	Mean	30.0	20.1	24.5	39.3	34.4	32.4	35.9	35.6	31	31	29	23
	SD	4.5	4.0	2.9	3.2	2.6	3.0	2.6	3.2				
	APV	15.5	16.1	21.6	26.1	31.8	29.4	33.3	32.4				
Leightning L3	Mean	23.6	24.6	27.8	32.6	37.4	35.2	38.8	35.8	34	33	32	27
	SD	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3				
	APV	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5				
Leightning L3HV	Mean	23.6	24.6	27.8	32.6	37.4	35.2	38.8	35.8	34	33	32	27
	SD	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3				
	APV	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5				
Leightning L0F	Mean	-	13.2	19.7	21.7	25.0	29.1	35.1	40.0	25	27	21	17
	SD	-	3.0	3.7	2.8	3.5	2.5	2.3	2.6				
	APV	-	10.2	16.1	18.9	21.5	26.6	32.8	37.4				
Leightning L2F	Mean	19.6	21.1	25.8	30.5	35.7	33.6	37.8	37.3	32	32	30	24
	SD	4.3	3.6	2.1	2.6	3.0	3.1	2.7	3.6				
	APV	15.3	17.5	23.7	27.9	32.7	30.5	35.1	33.7				
Leightning L2FHV	Mean	19.6	21.1	25.8	30.5	35.7	33.6	37.8	37.3	32	32	30	24
	SD	4.3	3.6	2.1	2.6	3.0	3.1	2.7	3.6				
	APV	15.3	17.5	23.7	27.9	32.7	30.5	35.1	33.7				
Leightning L0N	Mean	-	10.7	17.2	19.9	22.0	26.6	35.6	39.9	22	24	19	14
	SD	-	4.3	4.1	1.8	3.5	4.4	3.1	3.0				
	APV	-	6.4	13.0	18.1	18.4	22.1	32.5	36.9				
Leightning L1N	Mean	18.3	17.9	21.9	27.9	32.7	32.1	35.4	35.8	29	31	27	21
	SD	5.5	3.5	3.2	3.0	2.9	2.9	3.5	3.8				
	APV	12.8	14.4	18.7	24.9	29.8	29.2	31.9	32.0				
Leightning L2N	Mean	18.3	18.0	24.3	29.8	35.4	34.9	35.3	34.5	31	31	29	22
	SD	3.9	2.9	2.9	1.8	2.8	4.4	3.0	4.4				
	APV	14.4	15.1	21.4	28.0	32.6	30.5	32.3	30.1				
Leightning L3N	Mean	21.0	21.6	37.8	32.1	36.5	32.4	38.3	37.4	32	31	31	26
	SD	3.5	3.2	2.8	2.3	3.0	3.6	4.1	5.0				
	APV	17.5	18.4	25.0	29.8	33.5	28.8	34.2	32.4				
Leightning L1H	Mean	14.3	17.6	21.6	25.1	32.6	32.9	36.6	35.5	28	31	25	19
	SD	4.1	3.8	3.9	4.4	3.4	3.1	4.8	3.9				
	APV	10.2	13.8	17.7	20.7	29.2	29.8	31.8	31.6				
Leightning L3H	Mean	17.5	22.3	25.3	29.0	34.9	31.8	37.9	34.6	31	30	29	24
	SD	3.6	3.6	2.6	2.6	3.0	3.2	4.3	3.6				
	APV	13.9	18.7	22.7	26.4	31.9	28.6	33.6	31.0				
Leightning L1HHV	Mean	14.3	17.6	21.6	25.1	32.6	32.9	36.6	35.5	28	31	25	19
	SD	4.1	3.8	3.9	4.4	3.4	3.1	4.8	3.9				
	APV	10.2	13.8	17.7	20.7	29.2	29.8	31.8	31.6				

Attenuation data

Noise-blocking earmuffs

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Thunder													
Thunder T1	Mean	16.4	18.3	23.3	26.6	32.9	33.8	36.0	37.9	30	32	28	21
	SD	5.4	4.3	2.7	2.6	2.3	2.9	2.3	3.2				
	APV	11.0	14.0	20.6	24.3	30.6	30.9	33.7	34.7				
Thunder T2	Mean	20.3	20.5	28.0	31.9	38.5	37.1	37.6	38.0	33	34	31	25
	SD	4.2	3.6	2.8	3.5	2.7	3.4	3.1	5.2				
	APV	16.1	16.9	25.2	28.4	35.8	33.7	34.5	32.8				
Thunder T3	Mean	21.5	23.6	30.8	34.6	40.3	38.3	43.1	40.3	36	37	34	26
	SD	3.6	5.3	4.5	3.0	2.2	3.4	3.4	3.6				
	APV	17.9	18.3	26.3	31.6	38.1	34.9	39.7	36.7				
Thunder T2HV	Mean	20.3	20.5	28.0	31.9	38.5	37.1	37.6	38.0	33	34	31	25
	SD	4.2	3.6	2.8	3.5	2.7	3.4	3.1	5.2				
	APV	16.1	16.9	25.2	28.4	35.8	33.7	34.5	32.8				
Thunder T1F	Mean	17.6	19.9	25.3	28.6	34.3	35.7	37.4	37.8	31	33	28	22
	SD	4.9	4.7	4.7	4.7	3.1	2.9	3.4	3.8				
	APV	12.7	15.2	20.6	23.9	31.2	32.8	34.0	34.0				
Thunder T1H	Mean	15.9	18.7	22.5	23.4	32.4	34.4	35.5	37.9	29	32	26	20
	SD	2.7	3.8	3.9	2.5	2.2	2.3	2.3	4.7				
	APV	13.2	14.9	18.6	20.9	30.2	32.1	33.2	33.2				
Thunder T2H	Mean	16.9	20.1	24.9	25.4	34.0	33.9	36.2	38.1	30	32	28	23
	SD	2.9	3.3	2.8	2.4	2.3	2.9	3.2	4.6				
	APV	14.0	16.8	22.1	23.0	31.0	31.0	33.0	33.5				
Viking													
Viking V1	Mean	17.9	14.1	20.6	25.8	32.0	32.1	33.7	34.4	30	32	28	21
	SD	2.4	2.3	3.1	2.5	2.8	2.5	3.1	2.5				
	APV	15.5	11.8	17.5	23.3	29.2	29.6	30.6	31.9				
Viking V3	Mean	16.3	20.0	24.6	29.8	36.0	33.9	38.3	37.3	32	33	30	24
	SD	2.9	2.3	1.6	2.1	2.8	2.9	2.3	4.0				
	APV	13.4	17.7	23.0	27.7	33.2	31.0	36.0	33.3				
Mach 1													
Mach 1	Mean	14.4	13.6	14.7	22.3	33.2	34.4	30.4	29.3	24	29	21	14
	SD	3.8	4.3	3.7	3.8	3.8	2.7	3.6	4.4				
	APV	10.6	9.3	11.0	18.4	29.3	31.7	26.8	25.0				
QM24+													
QM24+ Worn as a headband	Mean	14.0	10.6	16.2	24.1	31.2	31.4	31.4	35.4	26	29	23	15
	SD	3.9	2.9	2.5	3.2	3.2	2.7	3.0	3.6				
	APV	10.1	7.7	13.7	20.9	28.0	28.7	28.4	31.8				
QM24+ Worn behind the neck	Mean	10.5	11.3	15.9	24.3	32.6	32.9	32.5	34.5	25	30	23	14
	SD	4.5	3.8	2.6	2.7	4.3	3.7	3.9	3.3				
	APV	6.0	7.5	13.3	21.6	28.3	29.2	28.6	31.2				
QM24+ Worn under the chin	Mean	13.4	11.3	16.1	23.3	29.7	32.5	32.6	33.9	25	30	22	14
	SD	5.4	4.6	3.0	3.9	2.5	2.6	3.4	3.9				
	APV	8.0	6.7	13.1	19.4	27.2	29.9	29.2	30.0				
Impact													
Impact Sport	Mean	15.1	15.7	19.1	22.9	27.0	24.4	38.4	40.9	25	30	25	20
	SD	4.5	3.0	3.1	2.9	2.3	3.3	3.0	3.4				
	APV	10.7	12.7	15.9	20.0	24.7	21.1	35.4	37.5				
Impact Pro	Mean	21.1	22.6	26.9	32.0	37.1	33.8	35.6	38.0	33	32	31	26
	SD	5.5	3.5	2.3	1.8	1.7	3.6	2.9	3.2				
	APV	15.6	19.1	24.8	30.2	35.4	30.2	32.7	34.8				
Impact	Mean	-	15.5	21.6	29.7	28.5	30.5	39.3	42.7	28	30	25	20
	SD	-	2.1	2.8	3.8	3.6	2.7	4.6	3.7				
	APV	-	13.4	18.8	25.9	24.9	27.8	34.7	39.0				
Impact H	Mean	13.3	14.7	20.7	29.8	27.7	27.1	36.4	39.2	27	27	25	19
	SD	4.0	3.6	2.3	2.9	2.7	2.6	3.3	5.1				
	APV	9.3	11.1	18.4	26.9	25.0	24.5	33.1	34.1				

Eye, Face, Head & Welding

Eyesight is an essential sense and deserves to be protected

Eye, Face, Head and Welding Protection

Every year, thousands of people suffer eye accidents in their workplace. 90% of these accidents can be avoided if suitable eye, face, head and welding protection is used.

Honeywell protective Eye, Face, Head and Welding Protection is designed not only to fulfill the primary function of effective protection, but also to make the products easy to wear, comfortable and suitable for every user.

We realize that keeping people safe begins with a commitment to exceeding safety standards an embracing change to create a Culture of Safety. We are about inspiring safety in the minds of workers everywhere.

Advanced coating technology from Honeywell p. 47

Lens tint selector p. 48

Safety spectacles - Choose your Need! p. 49

- Adjust for me! p. 49
- Put it on & Go! p. 60
- My speciality applications p. 68

Safety spectacles with corrective lenses p. 69

Goggles p. 79

Face shields p. 85

Welding protection p. 93

Laser protection p. 98

Head protection p. 102

WHAT TYPE OF PROTECTION SHOULD YOU CHOOSE?

SAFETY SPECTACLES
Protection for the eyes against:

- low energy impacts (mechanical resistance for an impact of up to 45 m/s).
- harmful rays: Ultraviolet (UV) / Infrared (IR).

GOGGLES
Protection for the eyes against:

- medium energy impacts (mechanical resistance for an impact of up to 120 m/s).
- the risk of intrusion by dust, fine particles or harmful chemical products (liquids, sprays, gas).
- the risks from molten metal projections.
- harmful rays (UV / IR).

FACE SHIELDS
Protection for the eyes and face against:

- medium and high energy impacts from sparks or solid bodies, plus projections (liquids, molten metals) that can cause generalised facial injuries.
- hazards from electric arc discharges caused by short-circuits.
- harmful rays (UV / IR).

⚠ Warning! Honeywell equipment should only be used in conjunction with the manufacturer's instructions. Failure to follow such instructions could result in serious injury including diminution or loss of vision.

Safety Eyewear Choice Pillars

We offer a wide range of product types for all work applications

New

Introducing “3 Choice Pillars” to help you select the right eyewear solution

- Adjustability of parts such as temples, nose, pantascopic adjustments etc.
- Comfort focus
- Wide range of lens coatings
- Wide range of lens tints

- Simplicity
- Basic “value” pricing range
- Several styles and models to choose from
- No moving parts or adjustments to be made

- Safety prescription solutions
- Laser protection
- Welding protection

Advanced coating technology from Honeywell

Honeywell is contributing to the creation of a safety culture in the workplace by offering resistant, high-performance eye protection that can be worn with total confidence. Years of research and technical development give us the ability to design high-performance products that deliver increased protection.

These products are supplied with the best coatings to resist the most demanding conditions, special lens tints for every task to optimise visual acuity and an impact resistance performance that exceeds current standards.

OUR OBJECTIVE IS SIMPLE: to inspire safety consciousness amongst the workforce, whatever the environment.

Advanced lens coating technology

Whether the problem is one of fogging on the inside of the lens or external scratching, Honeywell lens coatings provide a solution suited to almost every work environment.

SUPRA-DURA® ANTI-SCRATCH COATINGS

In environments exposed to high quantities of particles where scratched lenses pose a major problem, our new, advanced Supra-Dura® anti-scratch (K) coating has a lifespan 5 times* longer than most anti-scratch coatings currently available on the market.

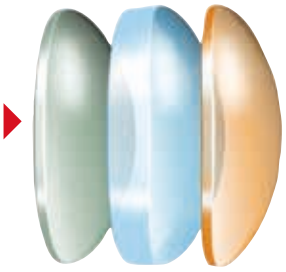
New

DURA-STREME® Fogban/ANTI-SCRATCH COATINGS

Dura-Streme® technology offers the industry-leading advantages of our anti-scratch and Fogban coatings on one single lens: the Honeywell anti-scratch (K) coating protects the external surface of the lens by ensuring resistance to chemical products and scratches, whilst the Honeywell Fogban coating on the inside (N) maintains visibility in environments where heat, humidity and physical stresses form an integral part of the work.

New

The internal Fogban coating offers excellent Fogban protection.



The external anti-scratch coating increases the lens' lifespan by up to 3 times*.

READY FOR ANY CONDITION

The Adaptec 4A+ lens coating meets (K & N) on both sides of lens and ensures excellent Fogban, anti-static and scratch-resistant properties.

New

HONEYWELL ANTI-SCRATCH COATING

Our anti-scratch coating remains one of the most resistant anti-scratch coatings in the world. The coating is bonded permanently to the lens and will not wear off, even after repeated cleaning, and provides increased resistance to scratches and chemical products.

HONEYWELL Fogban COATING

Our Fogban coating prevents fogging to maintain clear vision in conditions of extreme humidity and extreme temperatures. This coating is bonded permanently to the lens and combines two functions.

When the lens is exposed to humidity or mist, the coating's hydrophilic properties absorb then release the humidity from the lens. Should the lens reach saturation point, the hydrophobic properties take over and eject the humidity from the lens.

*Comparative lens lifetime test carried out using the Bayer abrasion test method. Results may vary depending on the environment and use.

Lens tint and marking selector

Honeywell offers a vast range of lens tint options to suit nearly every task or trade and a wide array of applications. Honeywell's SCT (Spectrum Control Technology®) lens tints use unique dyes that absorb specific light wavelengths.

By filtering out particular wavelengths, these tints provide functional assistance for specific visual tasks, for example, in low light conditions, under halogen or fluorescent lighting, in strong sunlight or in proximity to a source of intense heat or even torchwelding, brazing and cutting.

TINT SELECTOR

	Clear	Cappuccino	Yellow HDL	Grey TSR	Blue mirror	Silver mirror	Silver I/O	IR3	IR5
characteristics: VLT: Visible Light Transmission	92%	27%	87%	22%	23%	12%	45%	14%	2%
characteristics: UV filter >	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
Polycarbonate lenses offer 99.9% UV protection up to 380nm.									
Applications: For indoor use where eye protection is required against the more usual risks (e.g., impacts)	○								
Applications: For outdoor use where sunlight and dazzle may cause eye fatigue		●		●	●	○			
Applications: Provides high visibility and good contrast in low light conditions			●						
Applications: High performance lenses for indoor and outdoor use							○		
Applications: Welding								●	●

SAFETY EYEWEAR MARKINGS: HOW TO IDENTIFY APPLICATIONS AND PERFORMANCE

FRAME MARKING

HON 166 349 BT

Manufacturer's identifier

Reference standard
EN 166: standard
EN 169: safety for welding tasks
EN 170: protection against UV rays
EN 171: protection against IR rays
EN 172: industrial solar filters

Mechanical resistance
F: impact: 45 m/s
B: impact: 120 m/s
A: impact: 190 m/s
T: resistance guaranteed between -5 and 55°C

Specific areas of application
3: liquids (drips/splashes)
4: large dust particles
5: gas and fine dust particles
8: short circuit electric arc
9: hot solids and molten metals

LENS MARKINGS

2C-1.2 HON 1 BT KN

Filter performance and area of application

Code (area of application)
2 or 3: UV filter
4: IR filter
5 or 6: sunlight filter
No n°: welding filter

Colour perception
C: colour perception unchanged

Safety class
1.2 to 6: level of filtering of visible light

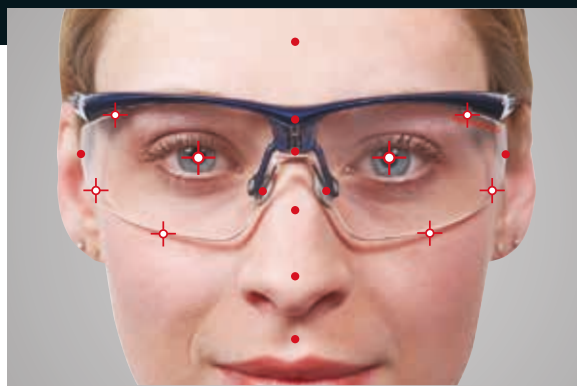
Mechanical resistance
F: impact: 45 m/s
B: impact: 120 m/s
A: impact: 190 m/s
T: resistance guaranteed between -5 and 55°C
K: Resistance to surface damage by fine particles (optional).
N: Resistance to fogging (optional).

Optical class
1: no optical distortion (permanent wear authorised)

Manufacturer's identifier

Adjust for me!

Honeywell Adaptec: One style. Three sizes. Personalised adjustment and performance.

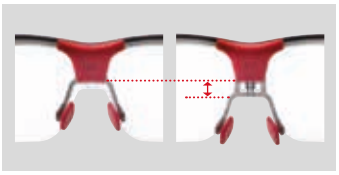


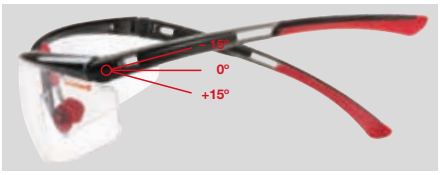
HONEYWELL ADAPTEC™

Best Seller

FEATURES & BENEFITS

- Adjustable nose bridge to centre the eye position to reduce eye fatigue.
- Automatic adjustment of the nose pads means additional comfort for the wearer.
- Adjustable lens angle for increased safety and reduced fogging.
- Precise adjustment of the temples to give the right fit and ensure comfort when worn for long periods.





CLEAR
Ideal for most indoor applications.

SMOKED
Reduces sunlight and outdoor glare to the minimum.

AMBER
For low light applications that require strong contrast.

MIRROR I/O
Reflects sunlight and glare.

SHADE IR 5.0
For brazing, cutting and light gas welding.

Honeywell ref.	Frame colour	Lens tint	Lens and frame marking
NARROW FIT			
10 307 40	Blue/Grey	Clear	2C-1,2 EN166 1 FT H KN CE
10 307 45	Blue/Grey	Smoked	2C-3 / 5-3,1 EN166 1 FT H KN CE
10 307 39	Red/Black	Clear	2C-1,2 EN166 1 FT H KN CE
10 307 38	Red/Black	Amber	2C-1,2 EN166 1 FT H KN CE
10 307 37	Red/Black	IR 5.0	5 EN166 1 FT H CE
10 307 44	Red/Black	Smoked	2C-3 / 5-3,1 EN166 1 FT H KN CE
10 307 41	Red/Black	Mirror I/O	2C-1,7 / 5-1.7 EN166 1 FT H KN CE
REGULAR FIT			
10 307 50	Blue/Grey	Clear	2C-1,2 EN166 1 FT KN CE
10 307 55	Blue/Grey	Smoked	2C-3 / 5-3,1 EN166 1 FT KN CE
10 307 49	Red/Black	Clear	2C-1,2 EN166 1 FT KN CE
10 307 48	Red/Black	Amber	2C-1,2 EN166 1 FT KN CE
10 307 47	Red/Black	IR 5.0	5 EN166 1 FT CE
10 307 54	Red/Black	Smoked	2C-3 / 5-3,1 EN166 1 FT KN CE
10 307 51	Red/Black	Mirror I/O	2C-1.7 / 5-1.7 EN166 1 FT KN CE
WIDE FIT			
10 307 60	Blue/Grey	Clear	2C-1,2 EN166 1 FT KN CE
10 307 65	Blue/Grey	Smoked	2C-3 / 5-3,1 EN166 1 FT KN CE
10 307 59	Red/Black	Clear	2C-1,2 EN166 1 FT KN CE
10 307 58	Red/Black	Amber	2C-1,2 EN166 1 FT KN CE
10 307 57	Red/Black	IR 5.0	5 EN166 1 FT CE
10 307 64	Red/Black	Smoked	2C-3 / 5-3,1 EN166 1 FT KN CE
10 307 61	Red/Black	Mirror I/O	2C-1.7 / 5-1.7 EN166 1 FT KN CE

HONEYWELL INSTINCT™

K&N rated

FEATURES & BENEFITS

- Unparalled protection, comfort and style.
- Dual 7-base-wrap-around lens provides uncompromised peripheral vision and protection.
- Soft flexible fingers adjust and conform to almost any nasal profile and help reduce slipping and sliding.
- Soft elastomer browguard diffuses and deflects impact.
- Adjustable lens inclination for a more secure and customizable fit.
- Available in a variety of high performance lens coatings such as Supra-Dura®, Dura-Streme® coating and Fog Ban Plus coatings.
- A wide variety of lens tint options available to meet a broad range of working situations.
- Meets EN166.

Ref.	Frame	Lens	Lens coating	Lens marking
10 315 40	Black/Grey	○ Clear	Fog Ban plus	2C-1.2 HON 1FTN
10 315 41	Black/Grey	○ Clear	Supra-Dura®	2C-1.2 HON 1FTK
10 315 42	Black/Grey	○ Clear	Dura-Streme® plus	2C-1.2 HON 1FTKN
10 315 43	Black/Grey	● TSR Grey	Supra-Dura®	5-2.5 HON 1FTK
10 315 44	Black/Grey	● TSR Grey	Fog Ban plus	5-2.5 HON 1FTN
10 315 45	Black/Grey	● TSR Grey	Dura-Streme® plus	5-2.5 HON 1FTKN
10 315 46	Black/Grey	● SCT Grey	Fog Ban plus	5-3.1 HON 1FTN
10 315 47	Black/Grey	● Silver Mirror	Supra-Dura®	5-3.1 HON 1FTK
10 315 48	Black/Grey	● I/O SILVER	Supra-Dura®	5-1.7 HON 1FTK
10 315 49	Black/Grey	● Amber	Supra-Dura®	2C-1.2 HON 1FTK
10 315 50	Black/Grey	● Amber	Dura-Streme® plus	2C-1.2 HON 1FTKN
10 315 51	Black/Grey	● Amber	Fog Ban plus	2C-1.2 HON 1FTN

Safety Eyewear

Adjust for me!

Designed for long-term performance and all day comfort!
Robust spectacles for the most demanding work environments.

K&N rated

SP1000™

Provides exceptional protection against impact, sun, wind dust and debris coupled with durable performance and minimized fogging. It's design offers a range of comfort and adjustability features for all-day wear.

Multipurpose design:
the spectacles can be worn with temples or headband (both included)

FEATURES & BENEFITS

Exceptional performance

- SP1000™ provides excellent protection against impact, wind, dust and debris.
- Available with the Dura-streme® coating which combines our two best lens coatings — Fogban on the inside and anti-scratch on the outside — for a lens lifetime that is 3 times longer*.

*Comparative lens lifetime test carried out using the Bayer abrasion test method. Results may vary depending on environment and application.

Exceptional comfort and adjustability

- The soft, cushioned nose bridge sits perfectly on the nose and prevents the spectacles from slipping. Nose pads conform to a variety of facial profiles.
- Soft high quality subframe cheekbone cushioning and cushioned temple ends for increased comfort throughout the day.
- Adjustable flame retardant headband for a perfect fit.
- Headband and cushioned-line subframe are latex free.
- Certified to the requirements of the EN 166 standard only with subframe in place.

Application	Ref.	Frame	Lens	Treatment	Temple marking	Headgear clip marking	Lens marking
Indoor	**10 286 40**	Black	○ Clear	Dura-streme®	B-D 166 FT	B-D 166 3 FT	2C - 1.2 B-D 1FT KN
Low visibility	**10 286 44**	Black	● Yellow HDL	Dura-streme®	B-D 166 FT	B-D 166 3 FT	2C - 1.2 B-D 1FT KN
Sun	**10 286 43**	Black	● Grey	Dura-streme®	B-D 166 FT	B-D 166 3 FT	2C - 2.5 / 5-2.5 B-D 1FT KN

Safety Eyewear

Adjust for me!

Best Seller

GUNMETAL

Work-safe look good.
Safety eye protection with style.
Modern, contemporary sporty style to appeal to a diverse population of workers.

FEATURES & BENEFITS

- A lightweight solution for anyone who still finds safety spectacles heavy, uncomfortable or unattractive.
- A wraparound lens offering a wide panoramic field of vision.
- Excellent side and cheek coverage protection.
- A brilliant, dark aluminium grey polycarbonate frame with matt black contours (rubber) for extra comfort.
- The temple ends and nose bridge are made from soft, comfortable rubber.
- Nose piece is adjustable with a metal insert to fit a wide range of facial features allowing proper optical center and all-day comfort.
- Impact resistant in extreme temperatures (FT).
- Every pair of GUNMETAL spectacles is delivered with a FREE soft microfibre pouch.
- Compliant with EN166.

Name	Ref.	Lens	Lens tint	Lens marking	Frame marking
Gunmetal	**10 303 80**	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 81**	● Yellow HDL	Anti-scratch	2C-1.2 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 82**	● Grey	Anti-scratch	5-2.5 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 83**	● Silver I/O	Anti-scratch	5-1.7 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 85**	● Silver mirror	Anti-scratch	5-3.1 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 86**	○ Clear	Fogban	2C-1.2 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 87**	● Yellow HDL	Fogban	2C-1.2 B-D 1 FT	B-D 166 FT
Gunmetal	**10 303 88**	● Grey	Fogban	5-2.5 B-D 1 FT	B-D 166 FT

Safety Eyewear

Adjust for me!

Adjustable model, designed for demanding users looking for high performance protection and unequalled comfort.

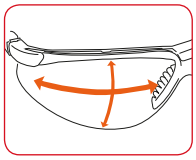
Best Seller

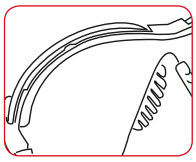
XC®

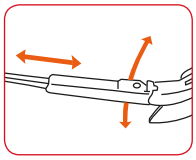
The name XC®, like “Xtra Coverage”, “Xtra Comfort” and “Xtra Control”, perfectly sums up the advantages of this model, designed to provide optimum protection for all day wear. It is an extremely versatile model, with a choice of lenses covering many fields of application: indoor, outdoor, sunlight, low light or welding assistant applications.

FEATURES & BENEFITS

A truly protective, 9-base curved lens.
The geometry of the lens has been calculated to provide effective cover for the eye area and to reduce the risk of intrusion by particles. Its above-average thickness offers unequalled resistance to impact, ensuring that these spectacles provide protection that goes far beyond the standard requirements.
The integral ventilation channel in the browbar encourages air flows that help to prevent fogging.
Fast, easy lens removal
makes it easy to clean or replace the lens.
Adjustable pantoscopic angle and temple length
provide optimum adjustability, to ensure a gap-free-fit.

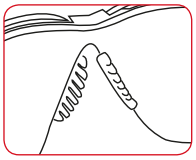






MMT (Multi-Material Technology®) provides increased comfort.
The browbar is covered over its entire length in flexible, shockproof, non-slip elastomer.

RX Insert for XC spectacles.
A product that allows prescription glass users to enjoy the benefits of extra comfort and protection offered by XC when compared with traditional solutions.
Reference: 10 114 10



Application	Ref.	Frame	Lens	Treatment	Lens marking	Replacement lens
Indoor	10 109 50	Blue	Clear	Anti-scratch	2C-1.2 B-D 1 FT	10 110 13
	10 110 27	Blue	Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 FT	10 110 15
	10 182 70	Blue	Clear	Dura-streme®	2C-1.2 B-D 1 FTKN	-
Sunlight (low intensity)	10 110 26	Blue	Grey TSR	Anti-scratch	5-2.5 B-D 1 FT	10 110 16
	10 110 25	Blue	Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 FT	10 110 17
	10 128 79	Blue	Cappuccino	Fogban / Anti-scratch	5-2.5 B-D 1 FT	-
	10 121 00	Blue	Green 6-2.5	Anti-scratch	6-2.5 B-D 1 FTK	-
Sunlight (high intensity)	10 110 22	Blue	Silver mirror	Anti-scratch	5-3.1 B-D 1 FT	-
	10 129 10	Blue	Dark grey TCG	Anti-scratch	5-3.1 B-D 1 FT	-
Low visibility	10 110 24	Blue	Yellow HDL	Anti-scratch	2-1.2 B-D 1 FT	10 110 18
	10 129 00	Blue	Yellow HDL	Fogban / Anti-scratch	2-1.2 B-D 1 FT	-
Indoor & Outdoor	10 110 23	Blue	Silver I/O (In/Out)	Anti-scratch	5-1.7 B-D 1 FT	10 110 19
Welding	10 128 77	Blue	IR 1.7	Anti-scratch	1.7 B-D 1 FT	10 152 50
	10 110 21	Blue	IR 3	Anti-scratch	3.0 B-D 1 FT	10 110 10
	10 129 01	Blue	IR 4	Anti-scratch	4 B-D 1 FT	-
	10 110 20	Blue	IR 5	Anti-scratch	5 B-D 1 FT	10 109 49
	10 129 02	Blue	IR 6	Anti-scratch	6 B-D 1 FT	-

Safety Eyewear

Adjust for me!

TORNADO T5700

Best Seller

Honeywell NORTH

FEATURES & BENEFITS

- Lens pivot system
- Extendable curved temples
- Single curved polycarbonate lens (6-base)

Ref.	Frame	Lens	Treatment	Lens marking
90 81 00	Black	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1FT
90 81 05	Blue	● Smoked blue mirror	Anti-scratch, Anti-UV, Anti-static	2C-3 / 5-3.1 N 1FT
90 81 36	Black	● I/O use	Anti-scratch, Anti-UV, Anti-static	2C-1.7 N 1FT
90 81 31	Black	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F

LIGHTNING METAL

Honeywell NORTH

FEATURES & BENEFITS

- Soft touch adjustable temples for extra comfort
- Flexi-fit anti-slip nose piece
- Single curved polycarbonate lens (8-base)
- Integrated side shields
- Replacement nose piece available 65Rb (Reference 208590)
- RX Insert (Ref. 202600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking
90 85 00	Silver	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F
90 85 01	Silver	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-3 / 5-3.1 N 1F
90 85 02	Silver	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F

LIGHTNING HTA

Honeywell NORTH

FEATURES & BENEFITS

- Extendable curved temples
- Flexi-fit anti-slip nose piece
- Single curved polycarbonate lens (8-base)
- Integral side shields
- Replacement nose piece available 65Rb (Reference 208590)
- RX Insert (Ref. 202600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking
90 85 10	Silver	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F
90 85 11	Silver	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-3 / 5-3.1 N 1F
90 85 12	Silver	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F

LIGHTNING T6500

Honeywell NORTH

FEATURES & BENEFITS

- Bowed, auto adjustable temples
- Flexi-fit anti-slip nose piece
- Single curved polycarbonate lens (8-base)
- Integral side shields
- Replacement nose piece available 65Rb (Reference 208590)
- RX Insert (Ref. 202600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 61 00	Black	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F	60 61 90
90 61 01	Black	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-3 / 5-3.1 N 1F	60 61 91
90 61 02	Black	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 61 92
90 61 06	Black	● I/O use	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.7 N 1F	60 61 96

Safety Eyewear

Adjust for me!

LIGHTNING PLUS

Honeywell NORTH

FEATURES & BENEFITS

- Soft touch straight temples
- Flexi-fit anti-slip nose piece
- Single curved polycarbonate lens (8-base)
- Integral side shields
- Replacement nose piece available 65Rb (Reference 208590)
- RX Insert (Ref. 202600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 62 00	Black	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F	60 61 90
90 62 10	Blue	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F	60 61 90
90 62 30	Silver	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F	60 61 90
90 62 01	Black	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-3 / 5-3.1 N 1F	60 61 91
90 62 02	Black	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2C-1.2 N 1F	60 61 92
90 62 06	Black	● I/O use	Anti-scratch, Anti-UV, Anti-static	2C-1.7 N 1F	60 61 96

N-VISION T5655

Honeywell NORTH

FEATURES & BENEFITS

- Extendable straight and curved temples
- Flexi-fit anti-slip nose piece
- Single curved polycarbonate lens (8-base)
- Integral side shields
- Replacement nose piece available 65Rb (Reference 208590)
- RX Insert (Ref. 202600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 66 00	Black	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 67 90
90 66 10	Blue	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 67 90
90 66 40	Grey	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 67 90
90 66 01	Black	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F	60 67 91
90 66 02	Black	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 67 92
90 66 06	Black	● I/O use	Anti-scratch, Anti-UV, Anti-static	2-1.2 N 1F	493HRL

THE EDGE T5600

Honeywell NORTH

FEATURES & BENEFITS

- Extendable straight and curved temples
- Single curved polycarbonate lens (8-base)
- Integral side shields

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 83 20	Black	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	N 1F	60 83 90
90 83 10	Blue	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	N 1F	60 83 90
90 83 00	Grey	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	N 1F	60 83 90
90 83 21	Black	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F	60 83 91
90 83 11	Blue	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F	60 83 91
90 83 01	Grey	○ Smoked	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F	60 83 91
90 83 24	Black	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 83 94
90 83 04	Grey	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 83 94

VX-7

Honeywell NORTH

FEATURES & BENEFITS

- Lens pivot system
- Temples and headband included
- Single curved polycarbonate lens (6-base)
- Soft pouch included
- RX Insert (Ref. 208600.0.4822)

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 86 10	Blue	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 86 90
90 86 40	Grey	○ Clear	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 86 90
90 86 1b	Blue	● Smoked blue mirror	Anti-scratch, Anti-UV, Anti-static, Fogban	5-3.1 N 1F	60 86 9b
90 86 49	Grey	● Smoked gold mirror	Anti-scratch, Anti-UV, Anti-static, Fogban	5-2.5 N 1F	60 86 99
90 86 42	Grey	● Orange	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.2 N 1F	60 86 92
90 86 4a	Grey	Indoor/Outdoor	Anti-scratch, Anti-UV, Anti-static, Fogban	2-1.7 N 1F	60 86 9a
90 86 47	Grey	● IR3.0	Anti-scratch, Anti-UV, Anti-static, Fogban	3 N 1F	60 86 97
90 86 48	Grey	● IR5.0	Anti-scratch, Anti-UV, Anti-static, Fogban	5 N 1F	60 86 98

Safety Eyewear

Adjust for me!

DUALITY™

FEATURES & BENEFITS

- Adjustable temples (length and angle).
- Totally transparent frame provides a clear field of vision in the upper part of the spectacles.
- Central clip lock/release system for easy lens replacement.
- 6 base lens.
- Excellent coverage via built-in side shields on side, top and bottom of frame.

Application	Ref.	Frame	Lens	Treatment	Lens marking	Replacement lens
Indoor	**10 142 96**	Clear	○ Clear	Anti-scratch	2C-1.2 B-D 1 F	**10 160 70**
	10 142 97	Clear	○ Clear	Anti-scratch/Fogban	2C-1.2 B-D 1 F	**10 160 71**
Sun	**10 142 99**	Clear	● Grey TSR	Anti-scratch/Fogban	5-2.5 B-D 1 F	-
Welding / foundry	**10 143 01**	Black	● Shade IR 5	Anti-scratch	5 B-D 1 F	**10 160 75**
	10 165 11	Black	● SHADE IR 3	Anti-scratch	3 B-D 1 F	-
Anti-abrasion	**10 143 00**	Clear	○ Mineral glass	Mineral/high resistance to abrasion	B-D 1 S	**10 160 74**

OP-TEMA™

FEATURES & BENEFITS

- Lightweigt classical style with a full view lens and a built-in moulded browbar.
- Adjustable temples (length and angle).
- Adjustable Flexicord neck cord (breakaway cord).
- Soft adjustable nosepiece.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 000 16**	Black	○ Clear	Anti-scratch	2C-1.2 D 1FT
	10 049 47	Black	○ Clear	Anti-scratch/Fogban	2C-1.2 D 1FT
	10 000 18	Blue	○ Clear	Anti-scratch	2C-1.2 D 1FT
	10 000 20	Bordeaux	○ Clear	Anti-scratch	2C-1.2 D 1FT
	10 049 49	Blue	○ Clear	Anti-scratch/Fogban	2C-1.2 D 1FT
Sun	**10 000 17**	Black	● Grey TSR	Anti-scratch	5-2.5 D 1FT
	10 049 48	Black	● Grey TSR	Anti-scratch/Fogban	5-2.5 D 1FT
	10 049 60	Blue	● Grey TSR	Anti-scratch/Fogban	5-2.5 D 1FT

SANTA CRUZ™

FEATURES & BENEFITS

- Classical style.
- Unobstructed wide angle vision lens.
- Feather weight design (34 grams)
- Adjustable positive lock temples for an individual fit.
- Comes in black, blue and burgundy frame colors.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 026 75**	Black	○ Clear	Anti-scratch	2C-1.2 B-D 1F
	10 026 76	Blue	○ Clear	Anti-scratch	2C-1.2 B-D 1F
	10 026 77	Burgundy	○ Clear	Anti-scratch	2C-1.2 B-D 1F

HONEYWELL OVERSPEC™

FEATURES & BENEFITS

- Available in 2 sizes (large and medium).
- OTG spectacle with exceptional peripheral vision and coverage.
- Adjustable and bendable, wire core “flex-n-hold temples” offer flexibility for a secure, customized fit.
- Overspec has ratcheting temples (3 positions) to further customize the fit and to help center the eyes and lens accordingly.

Application	Ref.	Frame	Size	Lens	Treatment	Lens marking
Indoor	**10 276 08**	Blue	**L**	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT
	10 276 13	Blue	**L**	○ Clear	Fogban/Anti-scratch	2C-1.2 B-D 1 FT N
	10 285 00	Blue	**M**	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT
	10 285 01	Blue	**M**	○ Clear	Fogban/Anti-scratch	2C-1.2 B-D 1 FT N
Sunlight (Low intensity)	**10 276 11**	Blue	**L**	● Grey TSR	Fogban/Anti-scratch	5-2.5 B-D 1 FT N
	10 285 02	Blue	**M**	● Grey TSR	Fogban/Anti-scratch	5-2.5 B-D 1 FT N
Low visibility	**10 276 10**	Blue	**L**	● Yellow HDL	Fogban/Anti-scratch	2C-1.2 B-D 1 FT N
Indoor & Outdoor	**10 276 12**	Blue	**L**	● Silver I/O	Anti-scratch	2C-1.7 / 5-1.7 B-D 1 FT
	10 285 04	Blue	**M**	● Silver I/O	Anti-scratch	2C-1.7 / 5-1.7 B-D 1 FT

Safety Eyewear

Put it on and go!

Best Seller

PROTÉGÉ™

Protégé gives workers the protection they need with the lightweight comfort and style they want!

FEATURES & BENEFITS

- Proprietary Floating Lens™ design offers increased flexibility to fit more wearers.
- Secure wraparound brow expands to fit a wide range of users.
- Lightweight: 27 grams.
- The cushioned temple ends ensure gentle contact behind the ear, the spot that is usually the most sensitive for spectacle wearers.
- Soft flexible “fingers” on the nosepiece reduce slippage.

product design award 2014

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	10 153 66	Metallic black	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT
	10 153 64	Metallic black	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 FT
Sunlight	10 153 63	Metallic black	● Grey TSR	Anti-scratch	5-2.5 B-D 1 FT
	10 153 53	Metallic black	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 FT
Indoor & Outdoor	10 156 89	Metallic black	● Silver I/O	Anti-scratch	5-1.7 B-D 1 FT
Low visibility	10 163 41	Metallic black	● Yellow HDL	Anti-scratch	2-1.2 B-D 1FT
	10 163 42	Metallic black	● Yellow HDL	Fogban / Anti-scratch	2-1.2 B-D 1FT

Protégé® Extreme

Best Seller

Larger lens size to fit even MORE faces

Extreme condition coatings to protect against the toughest environments

- A line extension to our best-selling Protégé Family!
- Same great features from our Protégé Family
- Ultra lightweight design at only 25,30 grams (less than one ounce!)
- Options available in Dura-Streme®, Supra-Dura® and Fog-Ban Plus coatings
- Larger lens size for enhanced face and cheek coverage to fit a wider range of facial profiles.
- A more extensive range of lens tint options offered to improve visual clarity and precision where acute attention to detail is required.
- Skus available with K&N markings
- Meets EN166, Optical Class 1, F Impact and T for extremes of temperature

Ref.	Frame	Lens	Lens coating	Lens marking
10 312 70	Black/Orange	○ Clear	Supra-Dura® Hardcoat	2C-1.2 B-D 1FTK
10 312 71	Black/Orange	○ Clear	Dura-Streme®	2C-1.2 B-D 1FTNK
10 312 72	Black/Orange	● Blue Mist	Fog Ban plus	2C-1.2 B-D 1FTN
10 312 73	Black/Orange	● Amber	Fog Ban plus	2C-1.2 B-D 1FTN
10 312 74	Black/Orange	● I/O Silver *Clear	Hardcoat	5-1.7 B-D 1FT
10 312 75	Black/Orange	● SCT Grey	Supra-Dura® Hardcoat	5-3.1 B-D 1FTK

* PRE-MIRROR COATING

IGNITE™

Best Seller

FEATURES & BENEFITS

Ignite offers a bold temple style, hot colors and an array of lens tints.

- 9-base wraparound lens for optimum coverage and protection.
- Lightweight frameless design for a clear, distortion-free 180° field of vision.
- Two temple colour options: bright metallic red with silver highlights or the more traditional black with silver highlights.
- Unisex design suitable for lots of different users.
- Sleek, sporty frameless design for lightweight, all-day comfort.
- The soft cushioning on the temple ends ensures a secure, comfortable fit.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 170 80**	Red/Silver	○ Clear	Anti-scratch	2C-1.2 B-D 1FT
	10 170 81	Red/Silver	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1FT
	10 170 85	Black/Silver	○ Clear	Anti-scratch	2C-1.2 B-D 1FT
	10 170 86	Black/Silver	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1FT
Sunlight (low intensity)	**10 170 82**	Red/Silver	● Grey TSR	Anti-scratch	5-2.5 B-D 1FT
	10 170 83	Red/Silver	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1FT
	10 170 87	Black/Silver	● Grey TSR	Anti-scratch	5-2.5 B-D 1FT
	10 170 88	Black/Silver	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1FT
Indoor and outdoor	**10 170 84**	Red/Silver	● Silver I/O	Anti-scratch	5-1.7 B-D 1FT
	10 170 89	Black/Silver	● Silver I/O	Anti-scratch	5-1.7 B-D 1FT

METALITE®

FEATURES & BENEFITS

A sporty metal frame in simple sunglass style.

- Spring hinge temples: a top of the range feature that is found on RX frames and sunglasses.
- Adjustable nose pads made from flexible, non-slip PVC for a precise fit on the nose.
- “Flex” temples for a perfect fit on the ears.
- Metal, nickel free frame.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 142 90**	Metal	○ Clear	Anti-scratch	2C-1.2 B-D 1F
	10 142 92	Metal	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1F
Sun	**10 142 93**	Metal	● Grey TSR	Anti-scratch	5-2.5 B-D 1F
	10 142 94	Metal	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1F
	10 142 95	Metal	● Golden mirror	Anti-scratch	5-3.1 B-D 1F

W100

A feminine style with encrusted rhinestones on each side of the lens. A model that offers superior coverage and great protection.

FEATURES & BENEFITS

An external sign of femininity. A revolution for fairness in safety eyewear.
Forget the time when your female staff had to wear the same safety spectacles as the men. Say goodbye to poorly adjusted safety spectacles that had women up in arms against compliance. The revolution is here. We present the new W100 RANGE of safety eyewear, designed specifically to adapt to a woman's face. Smaller size, modern model, contemporary style offering comfortable protection, throughout the day. Complying with the rules has never been so attractive.

A woman's face is distinctly different.
As a woman's face is smaller than a man's, it makes sense that their eyewear should be smaller too. It is not just a question of size, however: in general, women have a more pronounced brow, rounder, fuller cheeks and a narrower nose bridge. These differences have led to specific issues related to women's wearing of safety spectacles. Until now.

Improved adjustment to the face, improved compliance.
Specially adapted to the woman's face, the new W100 model has a narrower frame, shorter temples and a narrower nose bridge than standard safety spectacles, for optimum use and coverage. The resulting secure, comfortable fit alone is sufficient reason for women to be keen to wear these new models. With the styling details that we have now incorporated, women will be insisting on wearing their safety spectacles.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 281 11**	Clear frost	○ Clear	Anti-scratch	2-1.2 B-D 1FT
	10 281 13	Clear frost	○ Clear	Fogban / Anti-scratch	2-1.2 B-D 1FT
Sunlight (low intensity)	**10 281 14**	Frost brown	● Cappuccino	Anti-scratch	5-1.7/2.5 B-D 1FT
Indoor & Outdoor	**10 281 15**	Clear frost	● Silver I/O	Anti-scratch	2-1.7 B-D 1FT

XV100

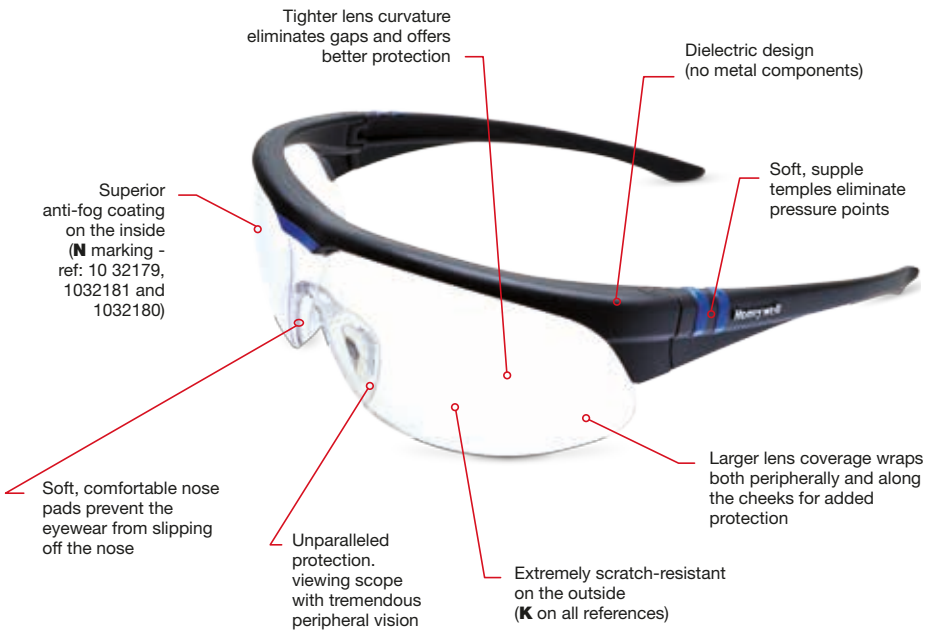
FEATURES & BENEFITS

- Slimline, lightweight design, profiled temples.
- 10-base panoramic lens for a clear field of vision and optimum protection.
- Easy to wear universal nose bridge.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 288 60**	Clear frost	○ Clear	Anti-scratch	2C-1.2 B-D 1FTH
	10 288 62	Clear frost	○ Clear	Fogban	2C-1.2 B-D 1FTH
Indoor & Outdoor	**10 288 61**	Clear frost	● Silver I/O	Anti-scratch	5-1.7 B-D 1FTH
Low visibility	**10 296 91**	Clear yellow	● Yellow HDL	Fogban	2C-1.2 B-D 1FTH
Sunlight (low intensity)	**10 296 92**	Grey frost	● Grey TSR	Anti-scratch	5-2.5 B-D 1FTH

Safety Eyewear

Put it on and go!



New

MILLENNIA® 2G

Changing the Eyes of Safety.

We have listened to you and your workers. You have clearly explained what your needs are and together we have developed Millennia® 2G. The newest safety eyewear from Honeywell Safety Product, the Millennia® 2G features simplicity, excellent protection, comfortable fit and stylish design.

FEATURES & BENEFITS

Simplicity "Put it on and go!"
- Millennia® 2G is new to Honeywell's "Put it on and go" category, designed for those hassle-free workers who don't want to worry about adjustments or moving parts with their spectacles.
- No need to worry about lengthening temples, nose piece adjustments or ratcheting temples. Simply take the product out of the package, put it on and focus on the job at hand!

Comfort
- Softer, more flexible frame material for superior comfort against the head and ears when worn all-day.

Superior eye and cheek coverage
- Covers the eyes and areas above the cheeks and brow to ensure that the workers are protected from particulates, dust and other impact risks.
- A greater lens coverage wraps both peripherally and along the cheeks to help prevent particulate risk. A "shelf-like" design element along the brow has been added to help to prevent dust from dropping in between the frame and entering the eyes.

Large viewing area
- Offers panoramic viewing area to see more both frontally and peripherally while working. Less "frame interruption", which is a typical complaint from end-users when trying to look towards the left, right, above and below to see clearly in all directions.

Nasal comfort and stability
- The comfortable nose pads help prevent the eyewear from slipping off the nose and forcing the worker to have to readjust their eyewear throughout the course of the work day.

Sporty, more modern frame
- Classic and simple in design with a sporty touch to boost worker compliance.

Ref.	Frame	Lens	Treatment	Lens marking
10 321 75	Black	○ Clear	Anti-Scratch	2C-1.2 HON 1 FT K
10 321 76	Black	● Grey	Anti-Scratch	2C-2.5 / 5-2.5 HON 1 FT K
10 321 77	Black	● Yellow HDL	Anti-Scratch	2C-1.2 HON 1 FT K
10 321 78	Black	● Silver / O (In / Out)	Anti-Scratch	2C-1.7 / 5-1.7 HON 1 FT K
10 321 79	Black	○ Clear	Fogban/Anti-Scratch	2C-1.2 HON 1 FT K N
10 321 80	Black	● Grey	Fogban/Anti-Scratch	2C-2.5 / 5-2.5 HON 1 FT K N
10 321 81	Black	● Yellow HDL	Fogban/Anti-Scratch	2C-1.2 HON 1 FT K N
10 321 82	Black	● IR 3	Anti-Scratch	3 HON 1 FT K
10 321 83	Black	● IR 5	Anti-Scratch	5 HON 1 FT K

- Certified to the requirements of the EN166 standards.
- Millennia® 2G is sold with a lanyard.

HONEYWELL MILLENNIA®

Last Season

FEATURES & BENEFITS

- Simplicity and convenience create the perfect blend of style and performance.
- Comfortable and lightweight wrap-around uni-lens provides exceptional coverage.
- Includes adjustable breakaway hangcord for added security and convenience.

Application	Ref.	Frame	Lens	Treatment	Lens marking	Replacement lens
Indoor	10 000 01	Black	○ Clear	Anti-scratch	2-1.2 B-D 1FK	10 000 11
	10 027 81	Black	○ Clear	Fogban / Anti-scratch	2-1.2 B-D 1F	10 027 87
	10 000 06	Blue	○ Clear	Anti-scratch	2-1.2 B-D 1FK	10 000 11
	10 027 83	Blue	○ Clear	Fogban / Anti-scratch	2-1.2 B-D 1F	10 027 87
	10 000 09	Silver	○ Clear	Anti-scratch	2-1.2 B-D 1F	10 000 11
Sunlight (low intensity)	10 000 02	Black	● Grey TSR	Anti-scratch	5-2.5 B-D 1FK	-
	10 027 82	Black	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1F	10 027 88
Low visibility	10 000 03	Black	● Yellow HDL	Anti-scratch	2-1.2 B-D 1FK	10 000 13
	10 052 12	Black	● Yellow HDL	Fogban / Anti-scratch	2-1.2 B-D 1F	-
Indoor & Outdoor	10 000 04	Black	● Silver I/O (In/Out)	Anti-scratch	5-1.7 B-D 1F	-
Sunlight (high intensity)	10 000 05	Black	● Silver mirror	Anti-scratch	5-3.1 B-D 1F	10 000 15
Welding	10 064 05	Black	● IR 3	Anti-scratch	3.0 B-D 1F	-
Welding / Foundry	10 064 06	Black	● IR 5	Anti-scratch	5 B-D 1F	-

HONEYWELL MILLENNIA SPORT™

FEATURES & BENEFITS

- All the performance and comfort features of the Honeywell Millennia in a sporty frame.
- Adjustable retainer: Flexicord.
- Transparent “moulded-in-lens” brow for improved vision and comfort.
- 3D ergonomically-curved high impact nylon temples to accomodate hard hats.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	10 059 81	Black	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT
	10 059 85	Black	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 FT
	10 059 87	Turquoise	○ Clear	Anti-scratch	2C-1.2 B-D 1 FT
	10 060 31	Turquoise	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 FT
Sun	10 059 82	Black	● Grey TSR	Anti-scratch	5-2.5 B-D 1 FT
	10 059 86	Black	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 FT
	10 059 88	Turquoise	● Grey TSR	Anti-scratch	5-2.5 B-D 1 FT
	10 060 32	Turquoise	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 FT

Safety Eyewear

Put it on and go!

TACTILE T2400

Best Seller

Honeywell NORTH

FEATURES & BENEFITS

- Soft “finger” nose piece.
- Comfort and style.
- Soft touch straight temples.
- Single curved polycarbonate lens (8-base).

Ref.	Frame	Lens	Treatment	Lens marking
90 87 30	Black	○ Clear	Anti-scratch	N 1F
90 87 31	Black	● Smoked blue mirror	Anti-scratch	5-3.1 N 1F
90 87 36	Black	● I/O use	Anti-scratch	2-1.7 N 1F

SLIMLINE T1300

Honeywell NORTH

FEATURES & BENEFITS

- Soft touch straight temples
- Single curved polycarbonate lens (8-base)

Ref.	Frame	Lens	Treatment	Lens marking
90 67 00	Clear	○ Clear	Fogban / Anti-scratch	2C-1.2 N 1F
90 67 01	Clear	○ Smoked	Fogban / Anti-scratch	2C-3 / 5-3.1 N 1F
90 67 02	Clear	● Orange	Fogban / Anti-scratch	2C-1.2 N 1F
90 67 06	Clear	● I/O use	Fogban / Anti-scratch	2C-1.7 N 1F

VENOM™

FEATURES & BENEFITS

- Dual lens with a sporty style.
- Round 9-base curved lens.
- Flexible hypoallergenic PVC nose bridge.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 127 26**	Black	○ Clear	Anti-scratch	2C-1.2 B-D 1F
	10 127 27	Black	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1F
Sun	**10 127 28**	Black	● Grey TSR	Anti-scratch	5-2.5 B-D 1F
	10 127 29	Black	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1F

Safety Eyewear

Put it on and go!

A 800

Best Seller

FEATURES & BENEFITS

- Affordable and economically priced!
- Sporty, 9-base wrap around polycarbonate lens.
- Non-slip rubber nose bridge.
- Unique temples with soft padded inserts down the length of the temple.
- Extra “flex” built into the temple for tension control.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 153 70**	Translucent	○ Clear	Anti-scratch	2C-1.2 B-D 1 F
	10 153 69	Translucent	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 F
Sun	**10 153 68**	Grey	● Grey TSR	Anti-scratch	5-2.5 B-D 1 F
	10 153 67	Grey	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 F
Indoor & Outdoor	**10 153 50**	Grey	● Silver I/O (In/Out)	Anti-scratch	5-1.7 B-D 1 F

A 700

Best Seller

FEATURES & BENEFITS

- Economical and stylish eye protection.
- Transparent single lens spectacles with increased lower side protection.
- Sport temples with soft temple tip pads for a comfortable fit.
- Secure wrap around lens design.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 153 61**	Clear	○ Clear	Anti-scratch	2C-1.2 B-D 1 F
	10 153 60	Grey	○ Clear	Fogban / Anti-scratch	2C-1.2 B-D 1 F
Sun	**10 153 62**	Grey	● Grey TSR	Anti-scratch	5-2.5 B-D 1 F
	10 153 51	Grey	● Grey TSR	Fogban / Anti-scratch	5-2.5 B-D 1 F
	10 154 40	Grey	● Blue mirror	Anti-scratch	5-3.1 B-D 1 F
Low visibility	**10 154 41**	Yellow	● Yellow HDL	Anti-scratch	2C-1.2 B-D 1 F

SN

Honeywell NORTH

FEATURES & BENEFITS

- Simple and classical design.
- Single curved polycarbonate lens (8-base)
- Integral side shields

Ref.	Frame	Lens	Treatment	Lens marking	Replacement glass
90 70 05	Black	● Green	Anti-scratch	EN166 1F CE	60 70 05
90 70 02	Black	○ Clear	Anti-scratch	EN166 1 F CE	60 70 02

ILLUSION

Honeywell NORTH

FEATURES & BENEFITS

- Classical model.
- Single curved polycarbonate lens (6-base).
- Integral side shields.

Ref.	Frame	Lens	Treatment	Lens marking
90 64 00	Black	○ Clear	Anti-scratch	N 1F
90 64 01	Black	○ Smoked	Anti-scratch	2-1.2 N 1F
90 64 02	Black	● Orange	Anti-scratch	5-3.1 N 1F

STELLAR™

FEATURES & BENEFITS

- Stainless metal frame, with metal temples (3D spatula tips).
- Adjustable hypoallergenic nose bridge.
- Available in 2 sizes 57 mm and 61 mm.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 055 64**	Silver (61mm)	○ Clear	Anti-scratch	B-D 1 F
	10 055 72	Silver (57mm)	○ Clear	Anti-scratch	B-D 1 F

POLYSAFE™

FEATURES & BENEFITS

Wraparound visitor spectacles offering a wide field of vision.

- Single polycarbonate lens with integral sideshields and contoured nose bridge.
- Available in 2 versions: Polysafe (uncoated) or Polysafe Plus with a special anti-scratch coat on both sides of the lens for increased product lifetime.
- Indirect ventilation on the sideshields.
- Perforations on the temples to attach a safety cord.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Indoor	**10 025 49**	Clear	○ Clear (Polysafe Plus)	Anti-scratch	2C-1.2 1F
	10 025 50	Clear	○ Clear (Polysafe)	-	2C-1.2 1F
	10 157 44	Black	○ Clear	-	2C-1.2 1F

HONEYWELL HORIZON™

FEATURES & BENEFITS

- Highly technical spectacle with adjustable temple wires and flip up window.

Application	Ref.	Frame	Lens	Treatment
Indoor	**30 241 30 - STD**	Blue (size 54 mm)	○ Clear polycarbonate	Anti-scratch
	30 241 47 - STD	Blue (size 54 mm)	○ Reinforced mineral glass	Mineral

FLIP-UP WINDOWS FOR HONEYWELL HORIZON™

FEATURES & BENEFITS

- Honeywell Horizon™ can be fitted with flip-up windows equipped with optical filters for welding assistant work or to protect against infrared radiation in foundries.

Application	Ref.	Frame	Lens	Treatment	Lens marking
Welding / foundry	**30 240 40 - STD**	Black	● IR 1.7	Anti-scratch	4-1.7 D1F
	30 240 41 - STD	Black	● IR 3	Anti-scratch	4-3 D1F
	30 240 42 - STD	Black	● IR 5	Anti-scratch	4-5 D1F
Foundry	**30 240 75 - STD**	Black	● Cobalt blue	Mineral	4-6 D1

Safety spectacles with corrective lenses

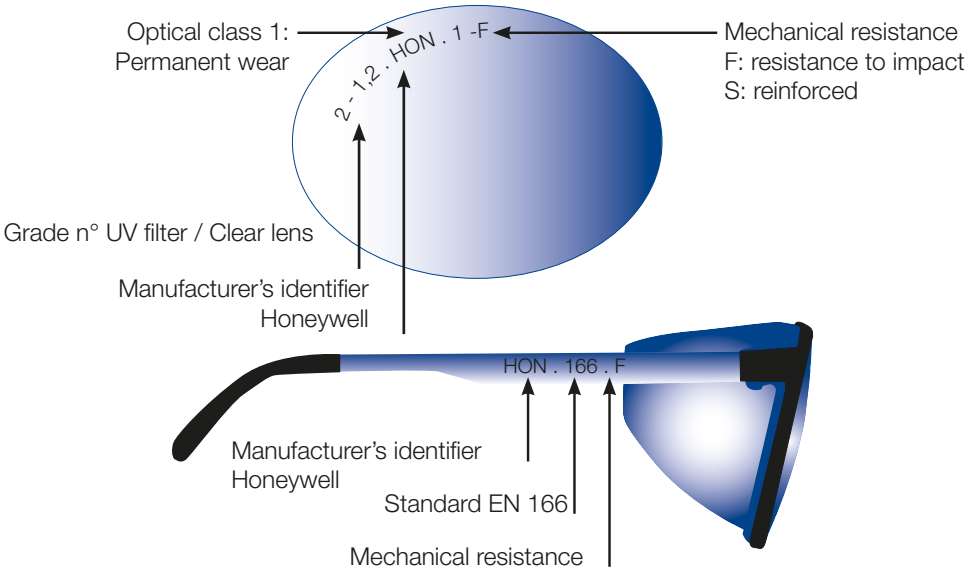
Equip your staff with prescription lens safety spectacles, a simple solution that's cheaper than you might think.

Honeywell Group has its own specialist laboratory, close to Morbier (the capital of the spectacle industry) in France, producing prescription lenses. Its team of experts will support you through the process of equipping your staff with prescription safety spectacles.

A PARTNERSHIP WITH A NETWORK OF LOCAL OPTICIANS

For this type of protection, more and more companies are putting their trust in Honeywell Safety's Optical Department. All prescription safety spectacles are marked in compliance with the European standard EN 166 on eye safety.

KEY TO MARKINGS



	Material	Properties	Applications
PC	Polycarbonate with anti-scratch coating	• Practically unbreakable: protection against impact (Symbol F: 6mm steel ball at 45 m/s). • The most comfortable of materials, thanks to its lightness and slimness. • Polycarbonate lenses offer 99.9% UV protection up to 380nm. • Ideal for strong corrective lenses. • Anti-scratch coating.	• Any work entailing the hazard of mechanical projections: Steel industry, metal-working, mechanical, maintenance, welding environment, timber industry etc.
OD	Orga Durci CR39 with anti-scratch coating	• Resistant to welding sparks. • Resistant to scratching thanks to its surface coating (anti-scratch coating). • Resists chemical products (acetone etc.). • Reinforced (Marking S).	• Any work entailing the hazard of chemical projections (acetone, acids, solvents etc). • Dusty environment (non-abrasive). • Welding work.
MT	Hardened mineral glass	• Excellent resistance to abrasion, scratches and high temperatures. • Reinforced (Marking S). • Resists the most aggressive chemical agents. • Chemically hardened for good resistance to thermal shocks.	• Very dusty environments, especially abrasive dust such as silica (cement plants, quarries etc). • Painting work (aggressive solvents). • Environments with high levels of radiant heat (foundries, glassworks etc).

These three lens models are available as UNIFOCALS, BIFOCALS or PROGRESSIVE, clear or tinted (anti-reflective coating available).

Safety spectacles with corrective lenses

HONEYWELL HORIZON™

FEATURES & BENEFITS

- Highly technical spectacle with adjustable temple wires and flip up window.

Frame colour	Size	Temple length
Clear, blue	52 x 16 mm	140 mm
Clear, blue	54 x 16 mm	140 mm
Clear, blue	56 x 16 mm	140 mm
Clear, red	52 x 16 mm	140 mm
Clear, red	54 x 16 mm	140 mm

HONEYWELL HORIZON™ VENTILATED

FEATURES & BENEFITS

- Characteristics identical to the Horizon model, with mini perforations on the side and lower shields.
- These mini perforations ventilate the inside of the spectacles and reduce any problems with fogging.
- This model is recommended for situations with wide thermal ranges, high temperatures, outdoor work or for use with a respirator mask.
- Weight (bare frame + extensions): 21 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Clear, red temples	52 x 16 mm	140 mm
Clear, blue temples	54 x 16 mm	140 mm
Clear, blue temples	56 x 16 mm	140 mm

HORIZON and HORIZON VENTILATED can be fitted with a flip-up window

Application	Ref.	Flip-up window	Markings	Treatment
Mechanical work (grinding etc.)	**30 243 38-STD**	○ Clear	2-1.2 D1F	Anti-scratch - Fogban
Sunlight	**30 243 33-STD**	● TSR Grey	2-3 D1F	UV protection
Glassworks and foundries	**30 240 75-STD**	● Cobalt blue	4-6 D1	IR protection
Welder's mate	**30 240 40-STD**	● IR 1.7	4-1.7 D1F	IR and UV protection
Welder	**30 240 41-STD**	● IR 3	4-3 D1F	IR and UV protection
Welder	**30 240 42-STD**	● IR 5	4-5 D1F	IR and UV protection

Safety spectacles with corrective lenses

SW06E

FEATURES & BENEFITS

- Ideal for use in situations with a risk of high-energy impacts.
- Modern design offers the user a sporty style.
- Lightweight design for optimum comfort every day.
- Panoramic 6-base curved wraparound spectacles superior protection.
- Nylon frame for extra strength.
- Straight, flexible, easy-to-adjust temples.
- Nosebridge may be adjusted using a set of add-on pads of varying thicknesses (included).
- Designed without metal parts - model is dielectric.
- Weight (bare frame + extensions): 22 g.
- Compatible lens materials: PC OD MT.

Optional:

- Removable, replaceable browbar, made from foam for extra comfort and improved protection.

RX220

FEATURES & BENEFITS

- Wraparound.
- Grillamid frame.
- Wire-core temples can be adjusted.
- Integral upper and lower protection.
- Permanent, integral sideshields.
- Weight (bare frame + extensions): 23 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Clear, blue temples	56 x 16 mm	135 mm

ALPHA X

FEATURES & BENEFITS

- Extremely lightweight carbon-reinforced plastic frame.
- Easily adjustable reinforced temples.
- Permanent clear polycarbonate sideshields.
- Nose piece.
- Weight (bare frame + extensions): 20 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Marbled grey	57 x 17 mm	140 mm
	59 x 19 mm	140 mm

Safety spectacles with corrective lenses

SW09R

New

FEATURES & BENEFITS

- Closed, sealed spectacles to increase protection in dust, dirt and high particle environments
- Modern sporty design to increase worker compliance and wearing time
- Smooth and dense foam sub-frame to minimize pressure against the skin and offer superior comfort for a complete all-day fit
- Ratcheting temples that adjust the lens angle by up to 15° for a better fit, comfort and optimal coverage and air circulation
- Padded temples to minimize tension around the ears and improve comfort
- Simple and easy temple-to-headband exchange system for increased protection
- Available in 2 versions (base 6 & 8) to make the spectacle suitable for most corrections and workers
- Easy foam replacement system for a more hygienic protection and to extend spectacle lifetime
- Compatible lens materials: PC, OD, MT

Frame colour	Size	Temple length
Black	Base 6: 56 x 21 mm	Base 6: 127 mm
Black	Base 8: 59 x 21 mm	Base 8: 127 mm

SW12

New

FEATURES & BENEFITS

- Integrated side shield design providing great coverage and a close fit to the eye for superior protection for multipurpose usage including high particle environments (dirt, dust, airborne debris)
- Modern and sporty design to increase worker acceptance and wearing time
- Smooth foam sub-frame to provide extra comfort for a full day of protection at work
- Easy foam and replacement system for a more hygienic protection that extends spectacle lifetime
- Aeration holes in the foam to reduce fogging
- Soft touch temples to minimize tension around the ears and improve comfort
- Available in three colours: black and green, brown and yellow, black and purple.
- Compatible lens materials: PC, OD

Frame colour	Size	Temple length
Black and green	62 x 15 mm	125 mm
Black and purple	62 x 15 mm	125 mm
Brown and yellow	62 x 15 mm	125 mm

Correction limitations
-4/+5 (SPHERE + CYLINDER)

Description	Reference	Packaging
Foam replacement Black & Green	1033770	Pack of 3
Foam replacement Black & Purple	1033771	Pack of 3
Foam replacement Brown & Yellow	1033772	Pack of 3

Safety spectacles with corrective lenses

SW02

FEATURES & BENEFITS

- Metal frame.
- Curved design for improved protection and improved vision.
- Snap-on sideshield mounting.
- Lock-fit sideshields.
- Temples covered in a comfortable flexible material - adjustable by the optician.
- Weight (bare frame + extensions): 30 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Satin brown	54 x 17 mm	130 mm
Satin brown	56 x 17 mm	135 mm

FC707

FEATURES & BENEFITS

- Stretch rectangular design.
- Very robust high quality metal frame.
- Lightweight frame to encourage prolonged wear.
- Temples with spatula sleeves.
- Snap-on sideshield mounting.
- Lock-fit sideshields.
- Weight (bare frame + extensions): 18 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Metallic Matt	50 x 21 mm	140 mm
Metallic Matt	52 x 21 mm	145 mm

Safety spectacles with corrective lenses

FC705

FEATURES & BENEFITS

- Elegant design.
- Rectangular lenses.
- A combination of look and comfort.
- Plastic frame.
- Reinforced temples.
- Lock-fit sideshields.
- Wide nose piece base.
- Weight (bare frame + extensions): 25 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Brown	50 x 19 mm	140 mm
Brown	52 x 19 mm	145 mm

BC109

FEATURES & BENEFITS

- Rounded lens profile.
- High quality chased metal frame.
- Snap-on sideshield mounting.
- Lock-fit sideshields.
- Weight (bare frame + extensions): 23 g.
- Compatible lens materials: PC OD MT.

Frame colour	Size	Temple length
Gold / Marbled brown	49 x 19 mm	135 mm
Gold / Marbled brown	51 x 19 mm	140 mm
Gold / Marbled brown	53 x 19 mm	145 mm

PANTO

Honeywell NORTH

FEATURES & BENEFITS

Elegant metal safety frame.

- Frame sizes: 45-20, 50-20.
- Colours: silver, gold-demi-amber.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Safety spectacles with corrective lenses

RETRO

Honeywell NORTH

FEATURES & BENEFITS

Classic metal frame safety spectacle.

- Frame size: 48-22.
- Colours: silver, gold, antique, gold-demi-amber.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

TANGO

Honeywell NORTH

FEATURES & BENEFITS

Elegant, Monel RX safety frame.

- Spring hinge temples.
- Fitted with the polarised magnetic clip system. Eliminates the glare from reflective surfaces, such as roads or stretches of water.
- Frame sizes: 48-20, 51-20
- Colours: silver, blue, bronze.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

DELTA

Honeywell NORTH

FEATURES & BENEFITS

Elegant office-style frame with aluminium temples.

- Soft touch PVC temple ends.
- Fixed side protection.
- Frame sizes: 49-19, 51-19
- Colours: bronze.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

Safety spectacles with corrective lenses

OVAL

Honeywell NORTH

FEATURES & BENEFITS

This famous North frame was the first totally hypoallergenic titanium frame on the market.

- Frame sizes: 46-19, 49-19
- Colours: brushed silver, gold, antique, gold-demi-amber.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE
Mineral lenses	EN166 1S CE
PC	EN166 1F CE

LUCTOR

Honeywell NORTH

FEATURES & BENEFITS

Metal-framed, aviator-style safety spectacle.

- Flexible titanium bridge.
- Frame sizes: 52-18, 54-18
- Colours: chrome, silver, gold, antique, gold-demi-amber.

Glass	Lens marking
CR-39 + anti-scratch coating	EN166 1S CE

RX INSERTS

Honeywell NORTH

FEATURES & BENEFITS

This unique accessory transforms your safety spectacles into state of the art prescription glasses to offer you perfect vision. Available for N-vision, Lightning and VX-7 spectacles.
RX12 ffM-tt - Specially designed Rx insert with slimline temples, for use with a full face mask (reference 202820).

CLIPS

Honeywell NORTH

FEATURES & BENEFITS

- Flip clips for North RX frames.

Ref.	Name
20 45 40	Polarised brown
20 45 24	Pc clear 3a
20 45 25	Pc 3a green 3
20 45 27	Pc 3a green 5

MILLENNIA™

FEATURES & BENEFITS

- Zip fastener case with belt loop and snap hook

Ref.	10 080 60

RIGID

FEATURES & BENEFITS

- Rigid case with zip fastener with belt loop and snap hook

Ref.	10 134 18

SPORT II

Honeywell NORTH

FEATURES & BENEFITS

- Sports model
- Black hard shell case
- Zip fastener with belt loop.

Ref.	20 45 12

CLASSIC

Honeywell NORTH

FEATURES & BENEFITS

- Wrap case, vinyl black material
- Belt loop
- Velcro fastener
- Suitable for all RX and dual lens frames

Ref.	20 45 18

PVC SOFT CASE

FEATURES & BENEFITS

- Soft PVC case
- Expandable sleeve opening

Ref.	10 080 61

SOFT CASE

Honeywell NORTH

FEATURES & BENEFITS

- Slip-in spectacle case without clip
- Soft black vinyl case
- Suitable for all RX and dual lens frames

Ref.	20 45 04

TUBE CASE

Honeywell NORTH

FEATURES & BENEFITS

- Soft shell tube lens protector
- Suitable for all frame styles

Ref.	20 45 13

SOFT POUCH

Honeywell NORTH

FEATURES & BENEFITS

- Soft black microfibre pouch
- Suitable for all frame styles

Ref.	20 45 17

Accessories — Miscellaneous

HONEYWELL CLEAR™

FEATURES & BENEFITS

Disposable cleaning station.
- Alcohol and silicon-free.

Ref.	10 113 80

Lens cleaning tissues (500).
- Alcohol and silicon-free.

Ref.	10 113 79

Towelette dispenser (100).
- Alcohol and silicon-free.

Ref.	10 113 32

500 ml spray bottle.
- Alcohol and silicon-free.

Ref.	10 113 78

Accessories — Spectacles cords

SC2

- Spectacle Safety cord, black

Ref.	10 024 36

FLEXICORD

- Sporty Safety cord, black

Ref.	10 057 71

SPECTACLES CORDS

- PVC loop Safety cords, black

Ref.	Name
20 45 22	PVC loops
20 45 20	For SS32 temples

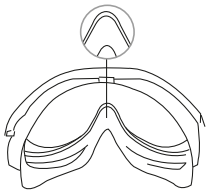
Goggles

FLEX SEAL®

FEATURES & BENEFITS

• **Flexible silicon body provides a perfect individual fit:**

- Light and flexible, the silicon body conforms to the face to assure the highest level of comfort and eye protection.
- Has a very comfortable feel on the skin and provides maximum comfort, particularly for prolonged use.
- Remains soft and supple in extreme temperatures.
- Adapts to almost any facial shape.

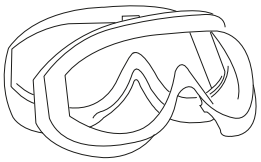


• **Ingenious design for total comfort.**

- Adjustable frame fitted with pivot mountings so that the goggles can be positioned easily and precisely.
- Clip release for the lens and strap for easy cleaning.
- Indirect ventilation system channels and evacuates air flows to minimise fogging.
- Lightweight frame.

• **Replaceable wrapround polycarbonate lens.**

- Wraparound lens offering clear panoramic vision.
- Superior optical quality lens filters out 99.9% of UV rays.
- Goggles compatible with prescription glasses and/or respirator half masks.



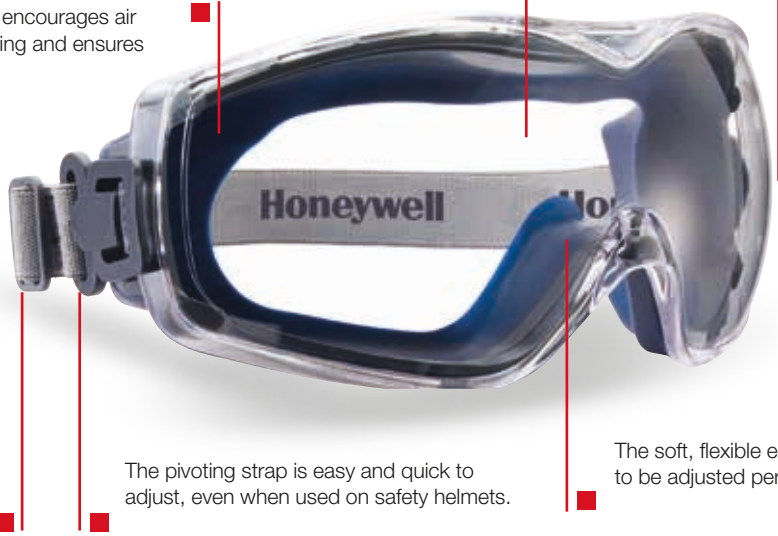
Application	Ref.	Name	Lens	Treatment	Frame marking	Lens marking	Replacement lens
Indoor	**10 113 81**	Blue frame Neoprene strap	○ Clear	Anti-scratch/ Fogban	B-D 166 349 FT	2C-1.2 B-D 1 FT 9	**10 113 85**
	10 113 33	Blue frame Elasticated strap	○ Clear	Anti-scratch/ Fogban	B-D 166 349 FT	2C-1.2 B-D 1 FT 9	**10 113 85**
Welding/Foundry	**10 113 84**	Black frame Neoprene strap	● IR 5	Anti-scratch/ Fogban	B-D 166 349 FT	5.0 B-D 1 FT 9	-

Goggles

Never have goggles offered such a panoramic field of vision combined with absolute comfort and protection for the user. Great OTG solution!

DURAMAXX™

K&N rated



Wide panoramic field of vision.

The indirect ventilation system encourages air flows that help to prevent fogging and ensures a high level of visual comfort.

The lens fits easily into the front of the DuraMaxx™ goggles. They have the easiest, quickest replacement system, so reducing the cost of using DuraMaxx™.

The wide, adjustable, sliding strap can be tightened or released by the user to provide optimum comfort.

The pivoting strap is easy and quick to adjust, even when used on safety helmets.

The soft, flexible elastomer joint allows the goggles to be adjusted perfectly to each user's face.

FEATURES & BENEFITS

DuraMaxx™ stands out due to its modern design and its leading edge lens coating. Now DuraMaxx™ facilitates and encourages the wearing of safety goggles in the workplace.

- **Ideal for protection against impact, dust, airborne particles, chemical splash and optical radiation** (UV and welding / heat radiation).
- **Wraparound lens** offers a wide panoramic field of vision.
- **Modern ergonomic design** for protection against chemical splash and impact from projections.
- The lens provides superior optical quality and peripheral vision.
- Soft elastomer body flexes and conforms to the face for a secure, comfortable, gap free-fit.
- Pivoting quick-adjust headband provides easy adjustment for a comfortable fit.
- The goggles can be used comfortably with most prescription glasses.
- May be worn comfortably with respirator half masks.
- Available exclusively with Dura-Streme® **technology offers Fogban (N) protection on the inside of the lens and an anti-scratch (K) coat on the outside for extra resistance to scratches and chemical products, plus increased longevity.** In situations where physical effort is an essential part of your work, or where heat, humidity, mist, sand, dust and chemical products are environmental factors, Dura-Streme® technology provides the protection that you need.

Goggles

Applications

• DuraMaxx™ is the solution for those working in demanding environments who need the protection of highly reliable goggles. For example:
- Industry – Airborne particles (small and large), dust and sharp objects.
- Construction – Plaster, dust, solid particles and reflections both indoor and out.
- Finishing – Dust, liquids, chemical particles, solid particles.
- Harmful products / Paint – Projections of toxic materials.
- Laboratories / Medical care – Possible exposure to toxic and/or contaminated materials.
- Welding – Infrared radiation, infrared emissions and projections of small metal particles.

Application	Ref.	Name	Lens	Treatment	Frame marking	Lens marking	Replacement lens
Indoor	**10 177 50**	Blue/grey frame – Elasticated strap	○ Clear (PC)	Dura-streme®	B-D 166 34 BT	2C-1.2 B-D 1BT KN	**10 281 35**
	10 177 51	Blue/grey frame – Neoprene strap	○ Clear (PC)	Dura-streme®	B-D 166 34 BT	2C-1.2 B-D 1BT KN	**10 281 35**
Outdoor	**10 177 37**	Blue/grey frame – Neoprene strap	● Grey TSR (PC)	Dura-streme®	B-D 166 34 BT	5-2.5 B-D 1BT KN	**10 281 36**
	10 177 38	Blue/grey frame – Elasticated strap	● Grey TSR (PC)	Dura-streme®	B-D 166 34 BT	5-2.5 B-D 1BT KN	**10 281 36**
Low visibility	**10 177 52**	Blue/grey frame – Neoprene strap	● Yellow HDL (PC)	Dura-streme®	B-D 166 34 BT	2C-1.2 B-D 1BT KN	**10 281 37**
	10 177 53	Blue/grey frame – Elasticated strap	● Yellow HDL (PC)	Dura-streme®	B-D 166 34 BT	2C-1.2 B-D 1BT KN	**10 281 37**
Welding	**10 281 33**	Blue/grey frame – Neoprene strap	● IR3 (PC)	Dura-streme®	B-D 166 34 BT	3 B-D 1BT KN	**10 281 39**
Welding / Foundry	**10 177 39**	Blue/grey frame – Neoprene strap	● IR5 (PC)	Dura-streme®	B-D 166 34 BT	5 B-D 1BT KN	**10 281 40**

Goggles

MAXX PRO®

FEATURES & BENEFITS

Maxx Pro combines modern design, technology, materials and coating performance for worker comfort and acceptance.

- Toric lens provides superior optics and peripheral vision.
- Soft elastomer body flexes and conforms to the face for a comfortable, gap free-fit.
- Pivoting, quick adjustment head band.
- Indirect ventilation system minimizes fogging.
- Economical lens replacement system.

Application	Ref.	Name	Lens	Treatment	Frame marking	Lens marking	Replacement lens
Indoor	**10 110 71**	Neoprene strap	○ Clear	Anti-scratch/ Fogban	B-D 166 349 FTK	2C-1.2 B-D 1 FT 9	**10 110 70**
	10 110 72	Textile strap	○ Clear	Anti-scratch/ Fogban	B-D 166 349 FTK	2C-1.2 B-D 1 FT 9	**10 110 70**

V-MAXX®

Best Seller

FEATURES & BENEFITS

A sporty style goggle.

- **Can be used with most prescription glasses** and/or most respirator half masks.
- **Indirect ventilation and anti-splash system.**
- **Polycarbonate** (PC) or **Acetate** (chemicals) lens.
- Pivoting headband clips to adjust around hard hats or hearing protection.
- Fits a wide variety of workers.
- Sleek wrap-around style with a 180 degree field of vision.
- Peel off goggle covers available to exend lens life.

Application	Ref.	Name	Lens	Treatment	Frame marking	Lens marking
Indoor	**10 061 92**	Indirect ventilation - textile strap	○ Clear PC	Anti-scratch	3.4.B	2 - 1.2 D1B
	10 061 93	Indirect ventilation - textile strap	○ Clear PC	Anti-scratch/Fogban	3.4.9.B	2 - 1.2 D1B 9
	10 061 94	Indirect ventilation - Neoprene strap	○ Clear PC	Anti-scratch/Fogban	3.4.9.B	2 - 1.2 D1B 9
	10 061 95	Textile strap	○ Clear PC	Anti-scratch/Fogban	3.4.5.9.B	2 - 1.2 D1B 9
	10 061 96	No ventilation, foam seal Textile strap	○ Clear PC	Anti-scratch/Fogban	3.4.5.9.B	2 - 1.2 D1B 9
	10 075 06	V-Maxx Chemicals, indirect ventilation neoprene strap	○ Clear acetate	Anti-scratch/Fogban	3.4.F	D1F
Welding	**10 081 10**	V-Maxx Welding	● PC IR 3	Anti-scratch/Fogban	3.4.9.B	3 B-D 1B 9
Welding / foundry	**10 081 11**	V-Maxx Welding	● PC IR 5	Anti-scratch/Fogban	3.4.9.B	5 B-D 1B 9
	10 064 37	Protective polyester lens film				

Goggles

LG10 & LG20

LG10

LG20

FEATURES & BENEFITS

- Economy goggle.
- Soft seal and easily adjustable headband for a wide variety of workers.
- Weight: lightweight, for optimum comfort (75 to 79 g).
- Chemistry version available in acetate.

Application	Ref.	Name	Lens	Treatment	Lens marking
Indoor	**10 055 04**	LG10 direct ventilation	○ Clear PC	-	B
	10 055 07	LG20 indirect ventilation	○ Clear PC	-	3.B
	10 055 09	LG20 indirect ventilation	○ Clear PC	Anti-scratch/Fogban	3.B
	10 081 12	LG20 Chemical, indirect ventilation	○ Clear acetate	Anti-scratch/Fogban	3.B

VISTAMAX 2000

FEATURES & BENEFITS

- Polycarbonate goggle available in direct or indirect flow ventilation.
- On average, 3X better anti-mist performance than conventional goggles.
- Suitable for protection against molten metals and hot solids (9)
- PVC body frame material.

Application	Ref.	Name	Lens	Lens coating	Frame marking	Lens marking
Indoor	**10 027 55**	Direct ventilation	○ Clear	Abrasion Resistant / Anti-fog	3.9.F	D 1F 9 CE
	10 027 57	Indirect ventilation	○ Clear	Abrasion Resistant / Anti-fog	3.4.9.F	D 1F 9 CE

Goggles

FLEXY SERIES

Honeywell NORTH

FEATURES & BENEFITS

- Economy goggle.
- Soft, flexible frame.
- Worn over most safety spectacles or over most prescription glasses.

Ref.	Lens / Ventilation	Treatment	Frame marking	Lens marking	Replacement glass
Flexconomy 80 51 51	○ PETG / 4 valves	Anti-scratch	EN166 3 4 F	N1F	80 51 01
Flexconomy 80 51 52	○ CP / 4 valves	Anti-scratch/Fogban	EN166 3 4 F	N1F	80 51 02
Flexacid 80 51 71	○ CP / Without neoprene strap	Anti-scratch/Fogban	EN166 3 4 F	N1F	80 51 02
Flexy 80 51 01	○ PC / 6 valves	Anti-scratch	EN166 3 4 F	N1F	80 51 01
Flexy 80 51 02	○ CP / 6 valves	Anti-scratch/Fogban	EN166 3 4 F	N1F	80 51 02

FLEXY 6000

Honeywell NORTH

FEATURES & BENEFITS

- Economy goggle
- Single curved polycarbonate lens (4-base), for optimum panoramic & peripheral vision
- Soft, flexible frame.
- Worn over most safety spectacles or over most prescription glasses.
- Indirect ventilation.

Ref.	Lens	Treatment	Frame marking	Lens marking
80 60 04	○ Clear PC	Anti-scratch	EN166 3 9 B	N 1B 9
80 60 05	○ Clear PC	Anti-scratch/Fogban	EN166 3 9 B	N 1B 9

AMIGO

Honeywell NORTH

FEATURES & BENEFITS

- Flip-up welding goggles.
- Soft, vinyl frame.
- 50 mm Xantos 5.

Ref.	Lens	Treatment	Frame marking	Lens marking
80 56 35	○ Xantos 5	Welding	EN166 34 F	EN175 F

Face shields

2784 possible adjustement positions, 15 design patents, one revolutionnary face shield.

BIONIC®

Best Seller

The Bionic shield is designed for rugged jobs: it's tough where it has to be, yet extremely lightweight and balanced to provide all day comfort.

FEATURES & BENEFITS

Superior protection.

- Integral face protection, from crown to chin.
- Superior quality panoramic vizor, for maximum visibility.
- Wide range of easy to replace vizors available in a range of materials, shades and finishes to meet every need.
- Compatible with most spectacles, goggles and respirator masks.
- Locking mechanism for total security.
- 100% dielectric.
- Excellent optics for increased visibility.

Unequalled comfort.

- 2784 possible combinations.
- Click-lock mechanism for precise headgear adjustment.
- Multi-position visor and ratchet locking system.
- Breathable, removable, washable headband.
- Comfortable cell foam on back of headgear.

ACCESSORIES

100 % dielectric

Adaptor for safety helmets. Guarantee of total protection for the head and the face. Quick and easy to fit to most safety helmets, including North® Brand.

Ref.	Name
10 119 34	Hygienic protective band
10 152 40	Protective films for Bionic screens (pack of 10)
10 151 61	NEW – Bionic adapter for safety helmets

BIONIC® FULL FACE SCREENS

Application	Ref.	Name	Lens	Treatment	Frame marking	Lens marking
Heavy mechanical work	**10 116 23**	Bionic face screen with uncoated polycarbonate screen	○ Clear	-	B-D 166 3 BT	2C-1.2 B-D 1 BT 3 9
	10 116 24	Bionic face screen with polycarbonate screen	○ Clear	Anti-scratch/Fogban	B-D 166 3 BT	2C-1.2 B-D 1 BT 3 9
Chemical projections	**10 119 33**	Bionic face screen with uncoated acetate screen	○ Clear	-	B-D 166 3 BT	B-D 1 FT 3

BIONIC SHELL

Reference	**10 151 13**	Bionic shell (without suspension)

REPLACEMENT SCREENS

Application	Ref.	Name	Lens	Treatment	Lens marking
Heavy mechanical work	**10 116 25**	Uncoated polycarbonate screen	○ Clear	-	2C-1.2 B-D 1 BT 3 9
Chemical projections	**10 116 26**	Uncoated acetate screen	○ Clear	-	B-D 1 FT 3
Heavy mechanical work	**10 116 27**	Polycarbonate screen	○ Clear	Anti-scratch/Fogban	2C-1.2 B-D 1 BT 3 9
Electrical work	**10 151 12**	Polycarbonate screen	○ Clear	-	2C-1.2 B-D 1 A/BT 389
Welding	**10 116 28**	Uncoated polycarbonate screen	● IR 3	-	3 B-D 1 BT 3 9
Welding/Foundry	**10 116 29**	Uncoated polycarbonate screen	● IR 5	-	5 B-D 1 BT 3 9

Face shields

Together, we are changing the face of safety

TURBOSHIELD™

K&N rated

Face Shield

1. Patented, secure visor attachment system for the quickest, easiest visor replacement available
2. Breathable, removable, washable headband
3. Toric lens provides excellent optics, increased field of view and added chin coverage without bulky attachments
4. Replacement visors* are available in Clear, Grey, Shade 3.0 and Shade 5.0. Clear and Grey lenses are also available with dual anti-scratch/anti-fog coating for longer visor life and reduced fogging
5. Ergonomic, easy-to-use adjustment knobs – even when wearing gloves
6. Patent-pending suspension system with comfort-designed headgear features dual-material technology for cushioned comfort
7. Smooth-pivoting action with positive stops in raised and lowered position
8. Ergonomically designed ratcheting headgear mechanism assures quick, easy adjustment to achieve an optimal fit
9. Simple push-button release system allows for easy visor exchange in seconds

Hard Hat Adapter

1. Hard hat accessory is compatible with most major hard hats (except full brim hard hats)
2. Intuitive visor attachment system for quick, easy visor replacement
3. Positive-locking hinge secures visor in raised and lowered positions
4. Leaves hard hat accessory slots free for additional protective equipment
5. Patented design centers visor over the head when in the raised position for greater balance and overhead clearance
6. Integrated brim guard ensures gap-free fit and protection from overhead debris

* **Honeywell Turboshield headgear** and **hard hat adapter** are compatible with our complete family of Supervizor specialty visors including gold coated, triacetate and acetate to provide added flexibility to the range.

Face shields

FEATURES & BENEFITS

- Superior comfort:
  Flexible head-cushioning suspension cradle provides 300% greater contact area than traditional suspensions to eliminate pressure points for all-day wear.
- Easy visor exchange:
  Simple push-button release system allows for easy visor exchange in seconds.
- Improved protection:
  Feel safer with 50% more chin coverage compared to traditional visors, without the need for bulky accessories.
- Personalized, comfortable fit:
  Control knobs are large and ergonomically designed for easy adjustment — even while wearing gloves.
- Better balance:
  Visor slides back 170mm, improving balance and weight distribution when worn with the Turboshield Hard Hat Adapter.
- Enhanced clearance:
  Dual-hinge hard hat adapter design increases clearance by as much as 100mm and keeps accessory slots open for compatibility with other PPE.

HEADGEAR

Ref.	Name	Shell marking
10 317 40	Turboshield Ratcheted Headgear, Black	HON 166 BT A 3 9 CE

HARD HAT ADAPTER

10 317 49	Turboshield Hard Hat Adapter,* Black	HON 166 BT A 3 9 CE

Application	Ref.	Name	Coatings	Visor Marking
Ideal for most indoor work applications	**10 317 43**	Clear PC Turboshield Replacement Visor	Uncoated	2C-1.2 HON 1 BT A 3 9 CE
	10 317 44	Clear PC Turboshield Replacement Visor	Hardcoat/Anti-Fog	2C-1.2 HON 1 BT A 3 9 K N CE
Minimizes outdoor sunlight and glare	**10 317 45**	Grey PC Turboshield Replacement Visor	Uncoated	2C-2.5 / 5-2.5 HON 1 BT A 3 9 CE
	10 317 46	Grey PC Turboshield Replacement Visor	Hardcoat/Anti-Fog	2C-2.5 / 5-2.5 HON 1 BT A 3 9 K N CE
Welding shade for torch brazing operations	**10 317 47**	UV/IR Shade 3.0 PC Turboshield Replacement Visor	Uncoated	3 HON 1 BT A 3 9 CE
Welding shade for cutting operations	**10 317 48**	UV/IR Shade 5.0 PC Turboshield Replacement Visor	Uncoated	5 HON 1 BT A 3 9 CE

*Hard Hat Adapter tested and approved for use on these hard hats: North - A59, A69, A79, A89; MSA - V-Gard; Centurion – Concept Full Peak, 1100; Schuberth – Baumeister 80, Euroguard 4; Peltor – G2000; JSP – MK2.

Certified to the requirements of the EN166 standards. All Turboshield Visors are certified UV protectors and provide protection against liquid and molten metal splash (EN166) and medium impact even at extremes of temperature (-5° C -55° C).

You told us it's time for a change.

"It's my job to ensure my team is safe and if their face shields aren't comfortable they're not going to wear them."

– Safety Manager

At Honeywell, we set out to create a face shield to meet your needs and give you the protection you deserve. To do this we visited job sites around the world and talked with workers and safety managers so we could better understand the challenges you face. We heard first-hand about the issues you deal with when it comes to workplace face protection. We listened and we learned. You need a face shield with an easy visor exchange, that's more comfortable to wear and offers you better protection.

That's why we created the revolutionary Honeywell Turboshield.

Face shields

SUPERVIZOR™

A range of robust face screens, for intensive use, compatible with the use of hearing protectors.

FEATURES & BENEFITS

- Compatible with a wide range of helmet types (size, shape and geometry).
- Secure screen attachment system for easy visor replacement.
- Integral facial protection: versions with chin guard option for extra protection.
- The screen is shaped at the sides to follow the shape of the face and to allow unhindered head movement.
- The design allows the screen to be raised without disturbing the hearing protectors and facilitates the use of noise-reduction helmets without compromising their performance, whilst maintaining maximum facial protection.
- Wide range of screens for every hazard: mechanical, chemical, thermal etc.
- Portfolio compatible with our range of hearing protectors and is suitable for use with safety helmets.

SUPERVIZOR MOUNTING SYSTEM

Ref.	Name	Name	Weight	Marking
10 022 97	SB600	Headgear with adjustable strap	120 g	D.166.3.F
10 023 02	SA660	PC screen mounting, for site safety helmets	125 g	D.166.8.F
10 023 05	SA66	Anodised aluminium screen mounting, for site safety helmets	110 g	D.166.3.B
10 023 04	SA66M	Anodised aluminium screen mounting, for site safety helmets	110 g	D.166.3.9.B

Face shields

POLYCARBONATE SCREENS: HIGH RESISTANCE TO VIOLENT IMPACTS

Application	Ref.	Name	Name	Screen marking
Mechanical work	**10 023 12**	SV9PC	Clear polycarbonate screen (230 mm)	D.1.B.3.9
	10 023 16	SV9PCH	Clear polycarbonate screen with anti-scratch coating (230 mm)	D.1.B.3.9.K
	10 023 10	SV9PC/CG	Clear polycarbonate screen with chin guard mounting (200 mm)	D.1.B.3.9
Glare (UV)	**10 023 28**	SV9PG	Green, shade 1.7 (230 mm) (not suitable for welding)	3-1.7.D.1.B.3.9
Foundry	**10 023 25**	SV9PGFH	Gold-coated polycarbonate screen with anti-scratch coating (230 mm)	4-5.D.1.B.3.9.K 3-5.D.1.B.3.9.K

TRIACETATE SCREENS: IMPROVED RESISTANCE TO CHEMICAL PRODUCTS, SCRATCHES AND HEAT

Application	Ref.	Name	Name	Screen marking
Chemical projections	**10 023 18**	SV9TC	Clear triacetate screen (200 mm)	D.1.F.3.9
Molten metal	**10 023 21***	SV9TC3WP	Clear/green triacetate screen shade 3 (200 mm)	BS 2092 - 2CM
	10 023 23	SV9TC5WP	Clear/green triacetate screen shade 5 (200 mm)	BS 2092 - 2CM

ACETATE SCREENS: GREATER RESISTANCE TO CHEMICALS AND SCRATCHES

Application	Ref.	Name	Name	Screen marking
Chemical projections	**10 023 07**	SV9AC	Clear acetate screen (200 mm)	D.1.F.3
	10 023 09	SV9AC/CG	Clear acetate screen with chin guard mounting (200 mm)	D.1.F.3
Welding	**10 023 29**	SV9A3W	Green acetate, shade 3 (200 mm)	3.D.1.F.3
	10 023 30	SV9A5W	Green acetate, shade 5 (200 mm)	5.D.1.F.3
Electric arc protection	**10 023 08**	SV9EK	Clear acetate screen (compatible with SA660 and SB600)	3-1,2.D.1.F.3.8

METAL SCREEN

Application	Ref.	Name	Name	Screen marking
Foundry	**10 023 37**	SAM9	Metal mesh screen, for SA66M screen frames only	-

*Vizor provides limited protection against heat and glare, but is not suitable for use as a welding protector or as a UV radiation protector.

Face shields

CHIN GUARD (for Supervizor™)

Application	Ref.	Name	Name	Screen marking
Heavy mechanical work and chemical splashes	**10 022 95**	VS7	Chin guard for 10 023 10 and 10 023 09 screens	-

SITE SAFETY HELMET SCREENS

Ref.	Name	Name	Screen marking
10 045 83	SHA66M	Screen mounting for site helmets (compatible with Howard Leight hearing protectors)	D.166.3.9.B
10 045 84	SHV9PC	Polycarbonate screen	D.3.9.B
10 045 87	SHV9PC	Acetate screen	D.3.F

Face shields

CLEARWAYS™

FEATURES & BENEFITS

- Safe, practical, economical.
- The clearways combination offers both strength and durability.
- Only 160 grams, it is comfortable to wear all day.
- Integral visor fitting ensures extra protection.
- Economical replaceable visors available in acetate or polycarbonate.

Screen **10 023 53**

CLEARWAYS HEADGEAR

Application	Ref.	Name	Name	Weight	Marking
Liquids - Impacts 120m/s	**10 023 46**	CB14	Polyamide headgear with elastic strap and browguard	85 g	D.3.B
Liquids - Impacts 120m/s	**10 023 41**	CB20	Adjustable polyamide headgear and browguard	94 g	D.3.B

POLYCARBONATE SCREENS: HIGH RESISTANCE TO VIOLENT IMPACTS

Application	Ref.	Name	Name	Screen marking
Heavy mechanical work	**10 023 53**	CV83P	Clear polycarbonate screen (200 mm)	D.1.B.3

ACETATE SCREENS: GREATER RESISTANCE TO CHEMICALS AND SCRATCHES

Application	Ref.	Name	Name	Screen marking
Chemical projections	**10 023 60**	CV84A	Clear acetate screen (200 mm)	D.1.F.3
	10 023 66	CV84AN	Clear acetate Fogban screen (200 mm)	D.1.F.3
	10 023 54	CV84A/CG	Clear acetate screen with chin guard mounting (200 mm)	D.1.F.3

CHIN GUARD

Ref.	Name	Name
10 022 94	CG7	Chin guard for CV84A/CG and CV83P/CG

Face shields

FACE SCREENS FOR ELECTRICAL WORK

FEATURES & BENEFITS

- Protection against hazards related to electric arc short-circuits and mechanical and chemical hazards.

Application	Ref.	Name	Screen marking
Electricity (electrical cabinet)	**36 970 94**	Clear acetate Fogban screen (height 240 mm) Suitable for use with helmets with 25 mm side vents	3.1,2.D.1.B.8.N
Electricity (electrical cabinet)	**36 970 95**	Clear acetate Fogban screen (height 240 mm) Suitable for use with helmets with 30 mm side vents	3.1,2.D.1.B.8.N
Electricity (electrical cabinet)	**36 970 80**	Clear polycarbonate screen (height 240 mm). Suitable for use with helmets with 30 mm side vents	3.1,2.D.1.B.8

PERFORAMA NOVA

Honeywell NORTH

FEATURES & BENEFITS

Three part face shield with clear crown and chin guard for optimum protection.

- Visor 18 cm
- Flip-up visor
- Adjustable flip-back block position
- Ratchet-adjustable headgear

Ref.	Lens	Coating	Marking	Replacement Screen
820140	Clear PC	3A	3-1,2 EN166 1B 9 N	520160
820144.6	Clear CP	4A	EN166 1F 9 N	520164
820840.5	Clear PC Combi North	3A	3-1,2 EN166 1F N	520860.5
820844.5	Clear CP Combi North	4A	EN166 1F N	520864.5

Welding protection

The eye is particulary sensitive, thus requiring outstanding protection to prevent irreversible lesions.

The risks and dangers linked to welding

All welding operations involve a constant risk for the welder and for those located in his direct environment (assistant welder, co-workers or anyone close to the welding application). Wearing the appropriate protection enables the welding process to be performed without any danger, provided that the welder is aware of the different types of risks incurred as well as the body parts to be protected.

The use of welding techniques generally causes the following hazards:

ULTRAVIOLET RADIATION (100-400 nm)

It causes in the human eye what is called welder's flash (photokeratitis), which is very painful, generally resulting in several missed work days. In addition, ultraviolet radiation may result in irreversible cataracts. It can irritate the skin and cause burns, or even cancer.

INFRARED RADIATION

Intense infrared and visible light may result in permanent damage such as lesions or retinal burns. In all cases, a high intensity of infrared and visible light may also create sore and red eyes (eye strain).

Appropriate welding masks or goggles must systematically be worn, whatever process used, and comply with the directives in force.

Shade selector table to help you choose the right shade

Intensity (amperes)	Plasma jet cutting	Arc welding	MIG; heavy metal	MIG alloys	TIG; metal alloys	MAG welding	Plasma jet welding
0,5-							2,5
1-							6
2,5-							7
5-					9		8
10-							9
15-		9			10		10
20-							
30-	11	10			11	10	11
40-			10	10			
60-		11				11	12
80-			11	11	12		
100-						12	
125-	12			12	13		13
150-		12	12			13	
175-							
200-				13	14		14
225-	13						
250-		13	13			14	
275-				14			
300-						15	15
350-		14	14	15			
400-							
450-							
500-							

Welding protection

Material selector table

Application	Material	Heat resistance Radiant heat	Contact heat	Weight
Manufactured in a high-quality, flame retardant material, they are perfectly suited to hot, intensely bright welding tasks. They are water-resistant and fit all European sizes.	Vulcanised fibre	+++	+++	Low
When extra throat and head protection is required, especially for welding tasks at height.	Thermoplastic	+++	+	Low
Suitable for welding in a very confined space and for short periods of welding.	Leather	++	++	Low

+++ = particularly suitable ++ = very suitable + = suitable

LEATHER MASK

Honeywell NORTH

FEATURES & BENEFITS

Full grain leather mask with flip-up Amigo welding goggles. Suitable for use in confined areas. Available in 2 sizes 30 and 45cm and various styles.

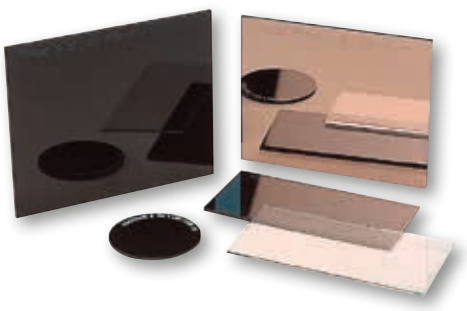
Ref.	Size
81 30 00	30 cms
81 30 10	45 cms

WELDING GLASS

Honeywell NORTH

FEATURES & BENEFITS

Filters, cover plates and backing lenses to fit most models and sizes in today's environment, all products accredited to required certifications. Ref: 618XXX, 517XXX. Please consult your price-list to get the complete references.



Fibre-Metal thermoplastic welding masks

FMX FUTURA

Honeywell NORTH

FEATURES & BENEFITS

High quality welding mask, for the experienced welder. With high quality auto-darkening DIN 4/9-13 filter and classic floating 3C headgear.

The lightweight helmet provides a perfect fit and has professional heat and scratch resistant graphics.

Ref.	Description	Screen	Size	Glass
FM2999BV913X3	FMX Wire Burner	Fixed	90 x 110	ADF DIN4/9-13

TIGERHOOD FUTURA

Honeywell NORTH

FEATURES & BENEFITS

Lightweight helmet with classic 3C free floating headgear, stable and balanced for improved productivity.

- High performance material, unlike any other thermoplastic welding mask.
- Increased impact resistance.
- Higher melting point / greater heat resistance.
- Greater chemical resistance.
- Greater resistance to scratching and cracking.

Ref.	Description	Screen	Size	Glass
81 29 32	Tigerhood 2006	Flip-up	50 x 108	10
81 29 30	Tigerhood 2999	Fixed	90 x 110	10
81 29 24	Tigerhood 2006	Flip-up	50 x 108	ADF DIN3-10
81 29 28	Tigerhood 2006	Flip-up	50 x 108	ADF DIN3-11
81 29 22	Tigerhood 2999	Fixed	90 x 110	ADF DIN3-10
81 29 26	Tigerhood 2999	Fixed	90 x 110	ADF DIN3-11
81 29 20	Tigerhood 2999	Fixed	90 x 110	ADF DIN4/9-13

LAMADOR

Honeywell NORTH

FEATURES & BENEFITS

Ideal for spot welding. Compact design with flip-up screen. Sizes: 50 x 108, 55 x 110, 60 x 110, 78 x 98, 85 x 110 and 90 x 110. With fully adjustable ratchet headgear, ensuring a quick, easy and firm fit. Optional leather chin protector.

Ref.	Description
81 05 00	108 x 51 mm, small field of vision
81 05 50	110 x 90 mm, large field of vision

GAMADOR

Honeywell NORTH

FEATURES & BENEFITS

Lightweight, comfortable and very ergonomic. Full size design with flip-up glassholder sizes. Sizes: 50 x 108, 55 x 110, 75 x 98, 85 x 110 and 90 x 110. Fully adjustable ratchet headgear ensuring a quick easy and firm fit. Optional leather chin protector.

Ref.	Description
81 04 50	110 x 90mm

COMBINATION HELMETS

Honeywell NORTH

FEATURES & BENEFITS

Lamador Combi North

Black carrier CP5005 with small size shield, supplied without hard hat and lenses.
Flip-up glass holder, sizes: 50 x 108, 55 x 110, 60 x 110, 75 x 98, 85 x 110 and 90 x 110.

Gamador Combi North

Black carrier CP5005 with full size shield, supplied without hard hat and lenses.
Flip-up glass holder, sizes: 50 x 108, 55 x 110, 60 x 110, 75 x 98, 85 x 110 and 90 x 110.

Ref.	Description
81 05 50.2	Combi Lamador, 90 x 110 mm
81 04 50.2	Combi Gamador, 110 x 90 mm

SHELLFO NOVA

Honeywell NORTH

FEATURES & BENEFITS

Lightweight and comfortable hand welding shield, green color. Perfect to supervise or for short welding runs. Fixed glass holder size 50x108 without lenses.

Ref.	81 28 10

Welding protection

Vulcanised fibre welding masks and screens

PROTA SHELL

Honeywell NORTH

FEATURES & BENEFITS

Optimum protection for arc welding. Large helmet, suitable for use in dockyards and construction. Available with a fixed or flip-up glass holder in sizes 50 x 108, 3¼ x 4¼, 85 x 110 and 90 x 110.

With fully adjustable ratchet headgear, for fast and easy adjustment and fit. Optional leather chin protector.

Ref.	81 09 10

PROTA SHELL BABY

Honeywell NORTH

FEATURES & BENEFITS

Its shape and lightness make this the ideal mask for spot welding. Available with a fixed or flip-up glass holder in sizes 50 x 108, 3¼ x 4¼, 85 x 110 and 90 x 110. Compact design suitable for used in confined spaces. With fully adjustable ratchet headgear ensuring a quick easy and firm fit.

Optional leather chin protector.

Ref.	81 03 10

POPWELD NOVA

Honeywell NORTH

FEATURES & BENEFITS

Comfortable hand-held welding screen. Ideal for monitoring or minor welding operations. Fixed screen, 50 x 108.

Ref.	81 26 14

SHELLFO

Honeywell NORTH

FEATURES & BENEFITS

Very light and comfortable welding shield for maximum protection with overhead welding. Without lenses, screen sizes: 50x108.

Ref.	81 22 10

Laser Protection

Why wear laser eye-protectors?

- Major hazards can occur due to the accidental reflection of laser radiation on optical components or other reflective parts.
- A reflected beam may be enough to cause serious eye damage.

What type of eye-protector do I need?

- Do you work with a visible laser in the 400 nm to 700 nm wavelength range?
- Do you need to see the laser beam as part of your work?

If the answer to BOTH questions is YES, you need EN 208-certified adjustment eye-protectors. In ALL other cases, you need EN 207-certified eye-protectors.

WHAT ARE THE ESSENTIAL FACTORS WHEN IT COMES TO CHOOSING LASER EYE-PROTECTORS?

- Laser eye-protectors must be EN 207 or EN 208-certified and must bear a protection level marking, the wavelength range and the CE marking. The protection provided must match the wavelength of the laser used.
- And be suited to the worst-case scenario, in other words, to the maximum power density or energy to which the user might be exposed.

WHEN SEVERAL DIFFERENT PRODUCTS OFFER ADEQUATE PROTECTION, YOU SHOULD THEN COMPARE:

1. **visible light transmission**
   - the higher it is, the better.
2. **the colour of the filter**
   - do you need to see specific colours? (e.g., LEDs or warning lights)
3. **is it necessary to wear the equipment over prescription glasses?**
4. **weight, comfort and firm fit**
   - the eye-protectors must be worn if they are going to protect you!

Laser Protection

Honeywell Industrial Safety designs and manufactures a comprehensive range of Light Management filters that allow you to control light in accordance with your particular application. This range includes protection against laser light and non-laser light sources such as IPL, plus special light control filters. This equipment includes, for example, special filters for military night vision glasses (to eliminate infrared light from the cockpit and computer screens) or filters designed to improve the response of automatic light control systems in vehicles.

TELECOMMUNICATION

Honeywell offers a choice of two filters to protect against the laser wavelengths currently in use in the telecommunications industry. The green polymer spectacles are light and robust. The glass lenses provide excellent colour vision, which may for example prove vital for determining the various cable colours when carrying out repairs.

Encore

MATERIALS TRANSFORMATION

Honeywell has developed a vast range of filters to protect against the lasers currently used in various materials transformation applications such as welding, cutting, drilling and marking.

XC

New York

LS6 Goggle

Filter technology

We supply light control solutions to customers using laser or other light sources. Light control is a science that consists of absorbing or reflecting specific light spectra whilst allowing other wavelengths to pass. For example, we can block a green laser but allow you to see other colours. The filter and the frame provide the required laser protection. The filter can be made of polymer or glass and it can absorb or reflect the laser radiation.

POLICE, AVIATION AND PUBLIC TRANSPORT

The misuse of laser pointers presents a serious hazard for police, pilots and staff working on public transport. We have designed filters specifically in response to this danger.

XC

INSPECTION / MEASUREMENT

Visible lasers are used for inspections, measurements or, for example, when equipment is being positioned. In most cases, the laser beam has to remain visible for the application. Therefore laser adjustment eye-protectors are used to reduce the strength of the beam that reaches the eye, whilst allowing a small part of it through the filter so that the user is able to see it.

LGF

Laser Protection

Item ref.	Frame style	Filter	Specification EN 207	Filter material	Filter colour	Visual Light Transmission
31-2219	LGF	Filter 107	804-1400 DIR LB 3 ; >1400-1700 DI LB3	Polymer	Green	16%
31-21107	Encore	Filter 107	804-1400 DIR LB3; 1064 DIRM LB5; >1400-1700 DI LB3; >1700-1900 DI LB2	Polymer	Green	16%
B-61096	New York	Filter 96	>950-1040 DIR LB4 >1040-1400 DIR LB5 >1400-2300 DI LB4 2850-3000 DI LB4 >3000-11000 DI LB3	Glass	Grey	75%
B-LS696	LS6 goggle	Filter 96	>1040-1400 DIR L5; >1400-2300 DI L4	Glass	Grey	75%
B-21096	Encore	Filter 96	>1040-1400 DIR LB5; >1400-2300 DI LB4	Glass	Grey	75%

Item ref.	Frame style	Filter	Laser types	Specification EN 207	Filter material	Filter colour
B-LS605	LS6 goggle	Filter 05	Nd:YAG, Diode, CO_2	940 - 1000 D L6 + IR L7; 1001 - 1100 D L7 + IR L8; 10600 DI L4	Glass	Grey
B-61096	New York	Filter 96	Nd:YAG, Diode, CO_2	>950-1040 DIR LB4 >1040-1400 DIR LB5 >1400-2300 DI LB4 2850-3000 DI LB4 >3000-11000 DI LB3	Glass	Grey
B-23096	Rio	Filter 96	Nd:YAG, Diode, CO_2	950-1000 DIR LB 6 1000-1060 DLB6 + IR LB7 1060-1400 DLB6 + IRLB8 1400-2600 DI LB4 2600-2800 DI LB3 2800-11000 DI LB4	Glass	Grey
31-80137	XC	Filter 137	Nd:YAG, Diode, CO_2	900-919 DIR LB5; 920-1065 D LB5 + IR LB7	Polymer	Green-Yellow
31-30137	LGF	Filter 137	Nd:YAG, Diode, CO_2	920 - 1064 D LB5 + IR LB7; 9000 - 11000 DI LB3	Polymer	Green-Yellow
31-21137	Encore	Filter 137	Nd:YAG, Diode, CO_2	920 - 1064 DR LB5 + I LB7; 9000 - 11000 DI LB3	Polymer	Green-Yellow
31-80100	XC	Filter 100	CO_2	9000 - 11000 DI LB4	Polymer	Transparent
31-3984	LGF	Filter 100	CO_2	9000 - 11000 DI LB 3	Polymer	Transparent
31-21100	Encore	Filter 100	CO_2	9000 - 11000 DI LB 3	Polymer	Transparent

Item ref.	Frame style	Filter	Specification EN 207	Filter material	Filter colour	Visual Light Transmission
31-80166	XC	Filter 166	530-535 RB2	Polymer	Salmon	43%
31-80168	XC	Filter 168	630-<643 + >662-670 RB 1; 515-538 RB1	Polymer	Bronze	18%
31-80103	XC	Filter 103	>315 - 532 D LB 6 + IR LB 7	Polymer	Orange	50%
31-21103	Encore	Filter 103	>315 - 532 D LB 6 + I LB 7 + R LB 5	Polymer	Orange	50%

Item ref.	Frame style	Filter	Specification EN 207	Filter material	Filter colour	Visual Light Transmission
31-30135	LGF	Filter 135	EN 208: 625-680 RB1	Polymer	Light blue	52%
31-21151	Encore	Filter 151	EN 208: 532 RB 3	Polymer	Orange-brown	65%
31-21116	Encore	Filter 116	EN 207: 610 - 690 DI LB4	Polymer	Blue	18%
31-30116	LGF	Filter 116	EN 207: 610 - 690 DI LB4	Polymer	Blue	18%

Laser Protection

Anti-scratch coating	Fogban coating	Adjustable temples	Lifetime guarantee*	May be used with prescription glasses	Main characteristics
•	-	•	•	Most types	Light, robust
•	-	•	•	•	Lightweight, perfectly suited to wearing over prescription glasses
-	-	•	•	-	Styled, spring hinges for matchless comfort
-	-	•	•	•	Robust, perfectly suited to wearing over prescription glasses
-	-	•	•	•	Perfectly suited to wearing over prescription glasses

Visual Light Transmission	Anti-scratch coating	Fogban coating	Adjustable temples	Lifetime guarantee*	May be used with prescription glasses	Main characteristics
65%			•	•	•	Robust, perfectly suited to wearing over prescription glasses
75%			•	•		Styled, spring hinges for matchless comfort
70%			•	•	•	Perfectly suited to wearing over prescription glasses
>55%	•	•	•	•		Insert available for prescription glasses
>55%	•		•	•	Most types	Light, robust
>55%	•		•	•	•	Light, perfectly suited to wearing over prescription glasses
89%	•	•	•	•		Insert available for prescription glasses
89%	•		•	•	Most types	Light, robust
90%	•		•	•	•	Light, perfectly suited to wearing over prescription glasses

Anti-scratch coating	Fogban coating	Adjustable temples	Lifetime guarantee *	May be used with prescription glasses	Main characteristics
•	•	•	•	Insert	Filter optimised for night use
•	•	•	•	Insert	Filter includes anti-glare protection for dawn or dusk use
•	•	•	•	Insert	Insert available for prescription glasses
•		•	•	•	Lightweight, perfectly suited to wearing over prescription glasses

Anti-scratch coating	Fogban coating	Adjustable temples	Lifetime guarantee*	May be used with prescription glasses	Main characteristics
Yes	•	•	•	Most types	Suitable for laser adjustment up to 10 mW
Yes	•	•	•	•	Suitable for a laser adjustment up to 1 W
No	•	•	•	•	Lightweight, perfectly suited to wearing over prescription glasses
No	•	•	•	Most types	Light, robust

Head protection

Safety helmets and accessories offer secure, comfortable protection that your employees will want to use. The head protectors feature elegant, lightweight shell designs, height-adjustable suspensions and comfortable padding. Our pin-lock or ratchet-adjustable suspensions use the natural shape of the head to create a firm but comfortable fit, guaranteeing the user a superior level of comfort throughout the day. Increasing compliance with safety standards and worker safety form part of our constant commitment to quality, innovation and improved safety in the workplace.

SUSPENSIONS

- Pin-lock: easy to adjust system of interlocking teeth for a firm hold. Simply squeeze the buckle tabs to loosen the band and slide to tighten.
- Ratchet: feature an extra secure and comfortable grip that allows the wearer in any position without slipping. Simply twist the ratchet to adjust .

PERSONALISED HELMETS (Ask your dedicated representative for details).

High-definition pad printing gives the helmet a personalised look. The logo is printed on the cap using a very durable ink.

Pin-lock

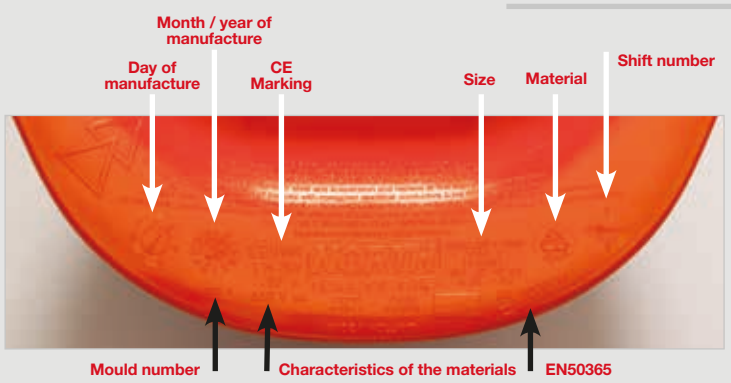
Ratchet

YOUR LOGO

EN standards

CE

EN 812	Industrial bump caps
EN 397	Specification for industrial safety helmets
EN 50365	Electrically insulated helmets for use in low-voltage installations



AVAILABLE IN A WIDE VARIETY OF COLORS

*Pink only for A79R.

PEAK RANGE

New

Honeywell NORTH

Multipurpose design helmet with ribbed ABS outer shell.

FEATURES & BENEFITS

- New - outer shell in ABS material: Tough, hard and rigid material with good chemical resistance, very high strength to impacts and excellent performance in high and low temperatures (+50°C to -30°C).
- Personalising hard hats: High definition pad printing gives the hard hat a professional customised look. Highly durable ink to print the logo on certain parts of the shell.
- Available with two adjustement systems:
  - Pin-lock: easy to adjust system of interlocking teeth for a firm hold. Simply squeeze the buckle tabs to loosen the band and slide to tighten.
  - Ratchet: features an extra secure and comfortable grip that allows the wearer to place in any position without slipping. Simply twist the ratchet to adjust.

Ref.	Name	Suspension	Replacement	Adjustment	Marking
93317*	**A69**	6 points, Nylon	633170	Pin-lock adjustment	EN50365
93316*	**A79**	4 points, Nylon	633160	Pin-lock adjustment	EN50365
93318*	**A69R**	6 points, Nylon	633180	Ratchet	EN50365
93319*	**A79R**	4 points, Nylon	633190	Ratchet	EN50365

*Available colours: Please consult price list to get the colour references
Certified to the requirements of the: EN 397 - Specification for industrial safety helmets - EN 50365 - Electrically insulated helmets for use in low-voltage installations

PROFICAP

Honeywell NORTH

FEATURES & BENEFITS

- Safety cap, for industrial use, provides good protection for the head. Baseball cap incorporating an ABS cap with foam liner on the inside.
- Colour: blue

Ref.	Model	Marking
A 16 81 99-00	Proficap	EN 812

CHINSTRAP

Honeywell NORTH

Ref.	Model	Material
63 31 05	4 points	Nylon strap

CLIPS

Honeywell NORTH

FEATURES & BENEFITS

In solid, non-conductive plastic, can be adjusted to fit the various safety helmet designs.
Suitable for use with PEAK helmets.

Ref.	Model
63 31 30.1	GC2000 goggle clip

WINTER LINERS

Honeywell NORTH

FEATURES & BENEFITS

- Suitable for use with PEAK hats
- WL12 and WL12FP, flame retardant

Ref.	Model	Description
63 31 06	WL6	Helmet liner, with zip fastener
63 31 04	WL12	Long neck
WL12FP	WL12FP	Balaclava, long neck
63 31 07	WL81	Slip-on

SWEATBAND

Honeywell NORTH

FEATURES & BENEFITS

Suitable for use with PEAK helmets.

Ref.	Model
63 31 22	Nomaz
63 31 23	Sponge, with Velcro®

Turboshield™

Visor change in seconds

You challenged us to give you a face shield with an easier, faster way to exchange your visor. **Introducing, Turboshield** with a patented simple push-button release system that allows for visor exchange in seconds.

Explore the revolutionary features at http://www.honeywellsafety.com/HoneywellTurboshield/

Honeywell | Industrial Safety

www.honeywellsafety.com

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Respiratory Protection

World leader of respiratory protection, we have been protecting workers around the world for over 100 years

Respiratory Protection

Because your protection matters

Air polluted by gases, vapours, dusts, chemical or biological aerosols, or even oxygen-depleted air... These are just a few examples where the use of respiratory protection is required.

Active in over 120 countries worldwide, Honeywell Industrial Safety is a global leader in respiratory protection equipment. In all developments by HSP, particular attention is paid to the combination of maximum respiratory protection and optimal comfort, making it easier for users to breathe safely.

The wide range of respiratory products offered gives you many options to protect yourself in a variety of environments and varied work.

Honeywell offers the most extensive range of single-use masks, reusable facepieces elements, powered air purifying respirators and air supply equipment as well as self-contained breathing apparatus for a wide range of applications. With 100 years of experience in respiratory protection, Honeywell concentrates its efforts on developing efficient and comfortable equipment in collaboration with actual users to continuously better meet their needs.

The fundamentals of respiratory protection p. 108

Single-use masks p. 118

Half masks and full-face masks p. 123

Escape devices p. 132

Powered air purifying respirators (PAPR) p. 133

PAPR hoods and welding helmets p. 135

Supplied air respirators p. 138

Shot blasting helmets (supplied air) p. 144

Self-contained breathing apparatus p. 145

SELECT THE MOST SUITABLE RESPIRATORY PROTECTION FOR YOUR NEEDS

The wearing of respiratory equipment is required when engineering control measures are impossible to implement or when they do not offer adequate protection for the health of employees.

There are two main types of respiratory equipment to protect individual users:

- Filtering respirators
- Self-contained breathing apparatus

Filtering respirators purify ambient air through a filter:

- Single-use masks
- Reusable half mask or full-face masks with filters or canisters
- Escape masks or hood with integral filters
- Power assisted breathing apparatus combined with masks or hoods/visors
- Fresh air breathing apparatus
- Equipment for compressed air supply with face piece, filtration unit and sometimes a filter

Isolating devices are fed with air and oxygen from an external uncontaminated source.

Before selecting suitable respiratory equipment, always assess your risk of exposure:

- Risk of oxygen deficiency
- Nature, form and effects of contaminants
- Knowledge of the levels of contamination present in the workplace and the Workplace Exposure Limits (WELs) set for those contaminants
- Take into account other associated hazards (Explosive Atmosphere Risk)
- Duration of use of the respirator

* Check local regulations in force.

Recommendations

All respirators are Category 3 devices according to the Personal Protective Equipment Directive: protection against major risks

They are designed and manufactured for:

> Protection against dust, fumes, liquid aerosols or gases and vapours

> To fully isolate the user from the ambient air and thereby offer protection against a wide range of contaminants

CRITERIA FOR SELECTING RESPIRATORY EQUIPMENT

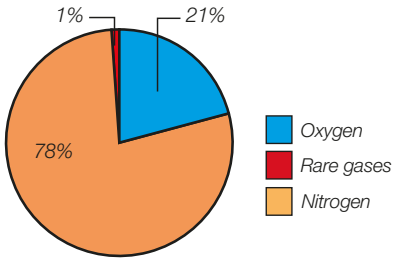
> Oxygen level

> Knowledge of toxicity

> Odour

> Risk of an explosive atmosphere (ATEX)

Composition of the air



O_2 > 17%*
- Knowledge of contaminant
- Detectable odour

→ **Filtering apparatus**
Mask + filtration device for the purification of ambient air

O_2 ≤ 17%
- Uncertainty about the risk
- No detectable odour

→ **Isolating devices**
Mask + air supply device

ATEX risk

*Check local regulations in force.

OXYGEN DEFICIENCY: RISK OF DEATH

- Oxygen plays a vital role in the respiratory system of a human being.
- It is the oxygen level in the immediate ambient air that will mainly determine the choice of respiratory equipment: self-contained or filtration.

EVALUATION OF EXPOSURE RISK

- Oxygen level
- Nature, form and effects of contaminants
- Knowledge of the levels of contamination present in the workplace and the Workplace Exposure Limits (WELs) set for those contaminants
- Consideration of other associated hazards (Explosive Atmosphere Risk)
- Duration of use of the respirator

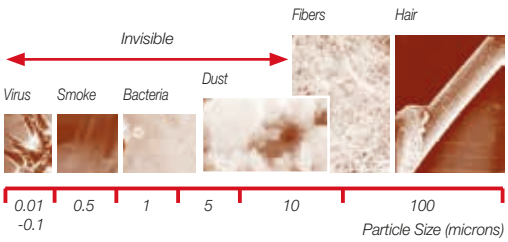
Classification of toxic contaminants (particles):

Solid and liquid aerosols: they can be of different types

▶ Troublesome ▶ Causing allergies or irritations ▶ Causing lung damage

Whatever the particle size, the risks can be significant depending on the **exposure time**

The increasing use of liquid aerosols requires the use of suitable protection according to the nature of the aerosol used and the composition of the product applied.



The size of the aerosol is one of the elements which determines the choice of the protection

Gas - Fumes: for each contaminant select, the appropriate filter

LOOK OUT FOR DANGER

Note: combined security

- In over 70% of cases the risk to the user's is in the form of both particulates and gases - this requires the use of a combination filter with both activated charcoal and mechanical (P3) elements

A	Organic gases and vapours, for which the boiling point is above 65°C. For example: solvents, hydrocarbons etc.		
AX	Organic gases and vapour which the boiling point is below 65°C		
B	Inorganic gases and vapour, e.g. chlorine, cyanide, formaldehyde, hydrochloric acid etc.		
E	Acid gases and vapour, e.g. sulphur dioxide, etc.		
K	Ammonia and organic amino derivatives		
P	Particles, dust		
CO	Carbon monoxide	Nox	Nitrogen monoxide, nitrogen oxides, nitrous vapour
Hg	Mercury vapour	I	Iodine

Address all risks

Filtering devices
Filtering respirators using the ambient air

- **Air purifying respirator, negative pressure**
  - • Single-use respirator → Single-use masks
  - • Half mask with filter
    • Full mask with aluminum or plastic filters/canisters, gas or combined → Optifit, N5400, Half masks, Plastic canister, Aluminium canister
- **Power air purifying respirator (PAPR)** → • Loose-fitting hood or visor • Helmet → Turbovisor MV, Primair Plus, Compact Air 200

Supplied air breathing respirators

- **Supplied air respirator (SAR)** → • Half mask • Full-face mask • Loose-fitting hood or visor, a supplied air device independent of the ambient air → Airvisor 2 MV, MC95 + Clearflow 3
- **Fresh air breathing apparatus** → Full-face mask → 4 BA

Self contained breathing apparatus (SCBA) Isolating devices

Aeris Phase 2 | Aeris Confort Type 2 | X-Pro

Escape devices

- **Fresh air supply, Negative Pressure**
  - • Half mask → Evamasque Din
  - • Hood → Opengo
- **Compressed air** → Bio-S-Cape, Aeris Mini
- **Chemical oxygen rebreathers** → Oxy-Pro

Regulation – Standardization

Main standards

Before they are released on the market, Category 3 PPE must meet the requirements of the applicable European standards such as:

Standard number	Standard name	Description
Disposable masks		
EN 149 + A1*	Half mask respirators against particles	The European standard specifies the minimum requirements for half-mask respirators used as respiratory protection against particles except for evacuation.
EN 405 + A1*	Half mask respirators with valves against gases or combined gases and particles	The European standard specifies the performance requirements, testing and marking requirements and methods applicable to half mask respirators equipped with valves and gas filters or combined filters used as respirators, except for evacuation. It does not apply to anti-gas half-mask respirators without valves or with only exhalation valves. It does not apply to equipment designed to be used in situations where there is or could be a lack of oxygen (oxygen content lower than 17% by volume).
Reusable Masks		
EN 136*	Full-face masks	The European standard specifies the minimum requirements for full-face respirators. The European standard does not address full-face masks designed for diving.
EN 140*	Half masks and quarter masks	The European standard specifies the minimum requirements for half masks and quarter masks for use with breathing apparatus, except for devices used in evacuation and diving.
EN 143 + A1*	Particulate filters	The European standard specifies particulate filters used as components of devices unassisted breathing, with the exception of devices for the removal and filtering face pieces. Some filters complying with the European standard can also be used with other types of respiratory protection, and in this case, they must be tested and marked in accordance with the relevant European standard.
EN 14387 + A1* (previously EN 141, previously EN 371, previously EN 372)	Anti-gas filters and combined filters	The European standard deals with gas filters and combined filters used as components of unassisted respirators. Filters against CO are not covered by the standard. Some filters meeting the standard can also be used with assisted breathing devices and, in this case, must be tested and marked with the appropriate European standard.
EN 148* (Parts 1-3)	Threads for face pieces Standard thread connection Center thread connection Thread connection M 45 x 3	The European standard applies to the standard threads of respirators. It does not apply to diving apparatus or to insulation positive pressure on demand type appliances.
Assisted breathing		
EN 12941 + A1 + A2* (previously EN 146)	Assisted breathing filtering devices incorporating helmets or hoods	The European standard specifies the minimum requirements required of filtering breathing apparatus incorporating a helmet or a hood and anti-gas, particle or combination filter(s) used as respirators. It does not apply to equipment designed to be used in situations where there is or could be a lack of oxygen (oxygen content lower than 17% by volume). It does not apply to emergency evacuation respirators.
EN 12942 + A1 + A2* (previously EN 147)	Assisted breathing filtering devices with full masks, half masks or quarter masks.	The European standard specifies the minimum requirements of assisted breathing filtering devices with full-face masks, half masks or quarter masks and anti-gas, particulate or combination filter(s) used as respirators. It does not apply to equipment designed to be used in situations where there is or could be a lack of oxygen (oxygen content lower than 17% by volume). It does not apply to emergency evacuation respirators.
Insulating air supply devices		
EN 14594*	Self-contained respiratory protection devices to continuous flow compressed air supply	The European standard specifies the minimum requirements of self-contained respirator apparatus using continuous flow compressed air with full masks, half masks or with a hood, helmet or suit, as well as the equipment used in abrasives projection operations as apparatus for respiratory protection. Devices for evacuation and diving are not covered by the European standard.
SCBA		
EN 137*	Open circuit compressed air self-contained breathing apparatus and full-face piece	The European standard specifies the minimum performance requirements for open circuit, compressed air SCBAs with full-face piece used as breathing equipment with the exception of devices designed for emergency evacuation or diving. This equipment is intended to be used in work situations with a low risk of over-pressurization of the compressed air cylinders and their taps due to hot environmental conditions.
EN 145 + A1*	Closed circuit type self-contained breathing apparatus using compressed oxygen or compressed oxygen - nitrogen.	The European standard specifies the minimum requirements for closed circuit type self-contained breathing apparatus using compressed oxygen (O2) and compressed oxygen-nitrogen (O2 - N2), used as respirators, except apparatus designed for evacuation and diving.
Escape devices		
EN 402*	Open circuit compressed air self-contained breathing apparatus, with on-demand valve, full-face mask or mouthpiece assembly for evacuation.	The European standard specifies the minimum requirements for open circuit compressed air self-contained breathing apparatus, with on-demand valve for evacuation. The European standard does not apply to protective devices for work and rescue, or diving apparatus.
EN 403*	Filtering devices with hood for fire evacuation.	The European standard covers filtering devices with a hood, used for individual evacuation from environments that contain particulate matter, carbon monoxide and other toxic gases produced by fire. It specifies the minimum requirements of these single-use devices. It does not apply to equipment designed to be used in situations where there is or could be a lack of oxygen (oxygen content lower than 17% by volume). Two types of devices are specified, namely those which are designed to be worn individually and those that are designed to be stored. The standard specifies the devices that are primarily intended to be used by adults. Some devices may be unsuitable for children.
EN 1146*	Open circuit compressed air self-contained breathing apparatus, with hood for evacuation.	The European standard specifies the minimum requirements for open circuit compressed air self-contained breathing apparatus, with a hood for evacuation. This equipment is intended for use in work situations where the risk of over-pressurization of the pressure vessels and their valves because of ambient heat is low. The European standard does not apply to appliances used for normal or diving.
EN 13794*	Closed circuit self-contained breathing apparatus for evacuation.	The European standard specifies the minimum requirements for self-contained closed-circuit breathing apparatus, using chemical oxygen (KO2, NaClO3) and compressed oxygen for evacuation (aka: oxygen evacuation apparatus). The European standard does not apply to protective devices for work and rescue, or diving apparatus.
DIN 58647-7*	Respiratory protection devices for evacuation – Part 7: Filtering devices for evacuation	
ISO 23269-1:2008	Ships and marine technology. Breathing apparatus for ships. Emergency escape breathing devices (EEBD) for shipboard use.	ISO 23269-1:2008 provides performance specifications for emergency escape breathing devices (EEBD) required by regulation in Part D of chapter II-2 of the 1974 International Convention for the Safety of Life at Sea (SOLAS), as amended in 2000, and chapter 3 of the IMO International Code for Fire Safety Systems (FSS Code). These devices are intended to supply air or oxygen needed to escape from accommodation and machinery spaces with a hazardous atmosphere. They are not intended for use in fighting fires, entering oxygen-deficient voids or tanks, or to be worn by fire-fighters.

* For all standards references cited and undated, the latest edition of the reference document (including any amendments) applies.

Regulation - Standardization

Use classes of filters:

> Protection against particles, dust and aerosols:

Class 1 (P1 or FFP1)
to protect against coarse solid particles without specific toxicity (calcium carbonate).

Class 2 (P2 or FFP2)
to protect against solid and/or liquid aerosols identified as hazardous or irritating (silica - sodium carbonate).

Class 3 (P3 or FFP3)
to protect against toxic solid and/or liquid aerosols (Beryllium - nickel - uranium - exotic wood).

> Gas/Vapour protection:

For fresh air negative pressure breathing

Class 1 for a gas content Maximum 1,000 ppm by volume.

Class 2 for a gas content Maximum 5,000 ppm by volume.

Class 3 for a gas content Maximum 10,000 ppm by volume.

> For use in assisted breathing

Class 1 for a gas content less than 0.05% by volume.

Class 2 for a gas content less than 0.1% by volume.

Class 3 for a gas content less than 0.5% by volume.

USE A SELF-CONTAINED RESPIRATORY DEVICE IF:

- The oxygen concentration is less than 17%
- The concentration of contaminants is unknown or too high
- The filter is not suitable for contaminants present

Honeywell Single-use masks: additional tests and certifications

Honeywell offers a complete range of single-use masks:

- From premium offers to more economic solutions.
- From FFP1 to FFP3.
- Protection against acids (AV) and vapour (OV) where the contamination is below WEL.
- Moulded or folding masks.

Two classifications for single-use respirator masks

- The non-reusable half-mask filtering respirators ("NR") limited to one working day (<8 hours).
- Reusable half-mask filtering respirators ("R") to be used for more than one working day.

Respirator masks tested using Dolomite

All Honeywell respirators have been tested for resistance to dust clogging by using Dolomite (D). The results clearly demonstrated the resistance of these respirators to clogging over time. Breathing comfort is better and therefore fatigue is lower for the user.

Compliance with ATEX 13463-1 standard of the Directive 94/9/EC

Some of our single-use masks conform to the ATEX 13463-1 standard of the Directive 94/9/EC.

ATEX ("Explosive Atmosphere") refers to a mixture of flammable substances such gases, vapours or dust in the air. After ignition, combustion of the entire unburned mixture occurs.

Directive 1999/92/EC covers any workplace exposed to explosive atmospheres. According to this directive, the employer must:

- estimate the dangers of the workplace,
- classify workplaces
- use the appropriate equipment in accordance with the ATEX 13463-1 standard of directive 94/9/EC.

Viral filtration efficiency ("VFE") and Bacterial Filtration Efficiency ("BFE")

VFEs and BFE tests are optional. They measure the effectiveness of filtering respirators against smaller viruses and bacteria.

The masks that have passed these tests demonstrated > 99.9% results. However, these results do not constitute a guarantee. The filtering half mask respirators are personal protective equipment designed to filter and not to kill viruses.

For maximum protection, you MUST read and understand the information about the product on the label before using the masks.

Honeywell Filters

Filters for particulates, gases/vapours and combined filters (particulate + gas/vapours)

Honeywell offers a wide range of filters incorporating advanced technology and expertise. Each range of filters addresses a specific need.

	TYPE	FOR
FILTERS RD40 IN PLASTIC	• RD40 connection • Plastic housing • Gas/vapour • Particulates - Gas/vapour • Particles	• Mono-filter • All masks equipped with an RD40 connection (EN 148-1) (eg: Optifit, Panoramasque)
FILTERS RD40 IN ALUMINUM	• RD40 connection • Aluminum housing • Gas/vapour • Particulates - Gas/vapour • Particles	• Mono-filter • All masks equipped with an RD40 connection (EN 148-1) (eg: Optifit, Panoramasque N5400 din thread) • Powered air purifying respirators: Compact Air 200, Compact Air
SERIES: CLICK FIT	• "Click Fit" Secure Connection • Gas/vapour • Particulates - Gas/vapour • Particles	• Twin filter • For Valuair, Premier, MX/PF F950, Optifit Twin masks
"N SERIES" CONNECTIONS	• Special screw connection • Gas/vapour • Particulates - Gas/vapour • Particles	• Twin filter • For N5400, N5500 and N7700 masks

Why use an RD40 filter?

As a manufacturer of particulate and combined filters for use against risks such as particles, gases and vapour, Honeywell has, over the decades, acquired significant experience and unparalleled expertise.

Quality coconut charcoal provides optimum absorption. The filtration capabilities are superior to those required by the standards EN 14387 (gas and combined filters) and EN 143 (mechanical type particle filtration). For particulate or combined filters respiratory resistance is low (paper quality) and breathing comfort optimized.

RD40 filters
These must be used with a device equipped with an RD40 connection such as a mask or powered air purifying respirators from the Compact Air series.

Aluminum RD40 filters
Closed by two plugs.
This protection ensures a storage period of:

- 5 years for type A filters
- 4 years for all others
- 10 years for P3 filters

The range of Honeywell filters is the largest on the market and meets all currently known requirements.
Honeywell also manufactures special filters for the nuclear industry, as well as the protection of the armed and security forces. Please contact our sales representatives for more information.

The range of Honeywell plastic filters:

- Designed for chemical environments.
- No metal: when staff safety (metal detection equipment) is required in addition to respiratory safety.
- Honeywell plastic filters can also be used in conventional applications.

Guide to respiratory protection

The choice of using a filter must be taken to provide the optimal conditions of safety for the user. The protection factor is dependent on the air tightness of the face piece (masks for use with filters), or complete equipment such as powered air purifying devices.

❶ Know your toxicity levels

Chemical formulas are complex. The same formula can have several names. The only reliable reference is the CAS.
CAS: ask your provider for the toxicity CAS number. Get the international safety record: it will allow you to check the potential risks, and the interactions to avoid.

This will provide several levels:

- WEL: the Workplace Exposure Limit over a period of 8 hours, in ppm (parts per million) or mg/m ^{3} (concentration).
- TLV: the short term Threshold Limit Value (10-15 minutes).
- ILD: Immediate Lethal Dose: this requires the immediate evacuation of the area.

The international safety record also provides information on:

- The chemical form of the product (gas, vapour, dust, depending on the temperature, humidity, its evolution, its interactions).
- Self-warning properties (odour, colour).
- The associated risks (eye, skin, carcinogen, explosive).

❷ Know the concentration of a toxic substance in the environment concerned

- In ppm or mg/m ^{3}, for example 7500 ppm.

❸ Choose the right protection: mask, half-mask, air supply or assisted breathing?

The Nominal Protection Factor (NPF) is required for selection of the right product, for example:
Hypothesis: The OEL of the product is 10 ppm
and external concentration is 7500

$$\frac{\text{External concentration}}{\text{OEL}} = \frac{7500}{10} = 750$$

The NPF is 750.
The NPF is also defined in the standard as the inverse of the total inward leakage.

What are the NPFs of our face shields? The NPF is indicated for each of our facial protection devices in the reference table for each model in this catalog.
An NPF of 750 is between 500 and 1000, so we must choose a protection with NPF 1000

- Either a full mask with a P3 filter.
- Or a full mask with a combined gas/particle filter.
- Or an assisted powered air purifying respirator such as the Compact Air 200.

The more a toxic substance is declared dangerous, the more the choice must be careful and approved. Again, one must be sure before using a filter system:

- To have validated the minimum oxygen level.
- To know the self-warning properties.

❹ If there is a skin or eye hazard

It identifies the choice of eye protection as a priority (conjunctivitis, irritation, redness, burning etc).

Following contact with the gas or vapour

- A full-face mask is mandatory.

Following contact with a liquid or projection

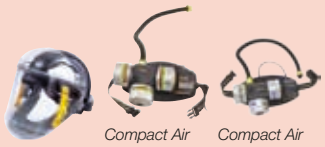
- A half mask combined with a pair of safety goggles suitable for work with the toxic substance is recommended.

When in doubt, choose a full-face piece

The eye risk is a major functional risk. Remember, it is very difficult to escape a risk without one's eyesight.

Product selection guide using the nominal protection factor (NPFs and APFs)

Particles, aerosols

Protection factors		Authorized device (by level of increasing protection)	
NPF x OEL	APF x OEL		
4	4	• Filtering single-use half-mask FFP1	Ref: 10 340 31 · Ref: 10 340 32 · Ref: 10 315 90 · Ref: 10 055 80 · Ref: 10 055 82 · Ref: 10 055 91 · Ref: 10 055 93 · Ref: 10 055 98 · Ref: 10 072 21 · Ref: 10 072 22
10	10	• Filtering single-use half-mask FFP2	Ref: 10 340 34 · Ref: 10 340 35 · Ref: 10 055 84 · Ref: 10 055 86 · Ref: 10 055 88 · Ref: 10 055 95
50	20	• Filtering single-use half-mask FFP3 • Half mask and P3 filter	Ref: 10 056 02 · Ref: 10 056 30 · Ref: 10 015 58 · Ref: N65550032 · Ref: N65770015
10	10	• Helmet or a hood, ventilated assisted breathing, Class TH1 P	 Ref: A114106 · Compact Air 200 and Filters · Compact Air and filters
50	20	• Helmet or a hood, ventilated assisted breathing, Class TH2 P	Ref: A114400 · Compact Air 200 and filters
200	20	• Half-mask with assisted breathing, Class TM2 P	Ref: N65770015 · Compact Air 200 and filters
500	40	• Hood with assisted breathing, Class TH3 P	Ref: PA111 – PA121 · Compact Air 200 and filters
1000	40	• Full-face piece and P3 filter	Ref: 17 150 11 · Ref: N65754201 · Ref: N65754301
2000	40	• Full-face piece assisted breathing, Class P TM3	N5400 · Optifit · Compact Air 200 and filters
2000	40	• Full mask and compressed air supply	N5400 · Optifit

- **WEL:** Workplace Exposure Limit Value.
- **NPF:** Nominal Protection Factor. Theoretical level of protection of a respirator calculated using data on the performance measured in the laboratory.

  Calculated by dividing 100 by the total value of maximum internal leak authorized as specified in the relevant standard. For example: mask EN 149 FFP3 class has a maximum permissible internal leakage level of 2 %.

  So: NPF = $\frac{100}{2}$ = 50
- **APF:** The Assigned Protection Factor is a number rating, used in UK legislation, to indicate the level of protection an item of Respiratory Protective Equipment is capable of providing.

The NPFs listed above are the minimum standard values.

Product selection guide using the nominal protection factor (NPFs and APFs)

Gas-vapour

Protection factors		Authorized device (by level of increasing protection)	
NPF x OEL	APF x OEL		
10	10	• Helmet or hood, assisted breathing, Class TH1	Ref: A114106 Compact Air 200 and filters
50	20	• Helmet or hood, assisted breathing, class TH2 and filters • Half mask with gas and combined filters	Ref: A114400 Compact Air 200 and filters Ref: 10 015 58 Ref: N65770015
200	20	• Mask, assisted breathing, class TM2	Ref: N65754201 Compact Air
500	40	• Hood with assisted breathing, Class TH3	Ref: PA111 – PA121 Compact Air 200 and filters
1000	20	• Full-face mask with combined filters	Ref: 17 150 11 Ref: N65754201 Ref: N65754301
2000	40	• Full-face piece with gas filters • Mask, assisted breathing, Class TM2	N5400 Optifit Compact Air

Supplied Air Breathing Apparatus

Protection factors		Authorized device (by level of increasing protection)	
NPF x OEL	APF x OEL		
2000	40	• Helmet or a hood continuous flow supplied air respirator	Ref: 10 139 38 Ref: 10 139 39 Ref: 10 139 80
2000	40	• Full-face mask + supplied air with or without motorized assistance	Ref.: 17 525 00

Configuration table provided as a guide. Please refer to the instruction manual of each device.

Single-use masks

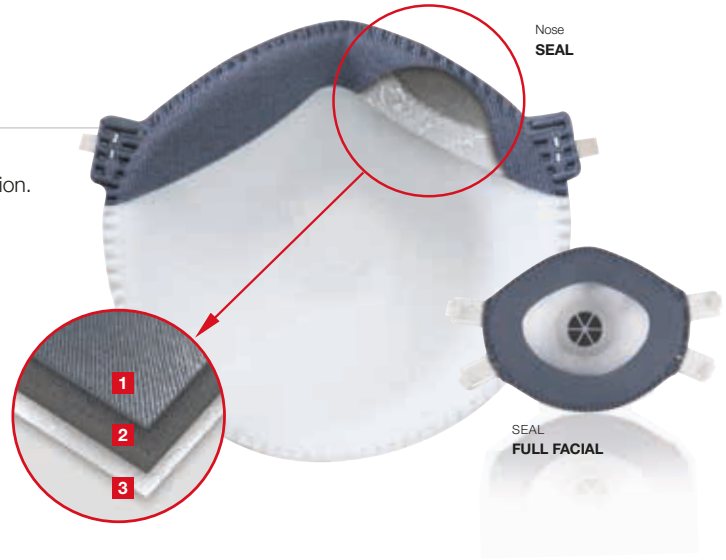
Maximum protection for minimum effort

Premium Range

- Range of highly comfortable and ergonomically designed single-use masks.
- Ideal for demanding environments.
- Valve membrane fully protected against impacts: increased safety and reliability.
- Available in moulded or flat-fold shapes in FFP1, FFP2 and FFP3.
- Additionally tested using Dolomite.

BENEFITS OF WILLTECH™ SEAL TECHNOLOGY

BENEFITS OF THREE LAYERS OF WILLTECH™ SEAL TECHNOLOGY
- Gentle on the skin and avoids the risk of irritation while absorbing perspiration.
- Provides a perfect seal.
- Soft and light with maximum reduction of fatigue for the user.



1 POLYESTER FABRIC = **SOFT**

2 POLYURETHANE FOAM = **ABSORBS MOISTURE**

3 POLYETHYLENE FILM = **SEAL IMPERMEABLE TO AIR**

ADJUSTABLE PREFORMED COLOUR NOSE-BRIDGE

- Resistant bar ensures a seal over time for maximum protection.
- Level of FFP protection quickly identifiable with the colour code.

PROTECTION LEVEL	COLOUR OF NOSE-BRIDGE
FFP1	YELLOW
FFP2	GREEN
FFP3	ORANGE

PROTECTION LEVEL	COLOUR OF NASAL STRIP
Organic vapour	BROWN
Acid vapour	BLUE

MORE ENVIRONMENTALLY FRIENDLY AND HYPOALLERGENIC

Single-use masks — Premium range

PREMIUM SERIES 5000

MAXIMUM COMFORT AND EFFICIENCY

- **Large internal volume** for ease of movement.
- **Lightweight Masks** (10g to 28g) minimizing user fatigue.
- **Double elastic flexible straps stapled** and highly resistant for added safety.
- **Stapling outside the filtration zone** to eliminate the risk of leakage.
- **Ergonomic.**

FOR MODELS 5221 & 5321

- Best individual adjustment using **adjustable straps.** and available in medium-large and extra-large.
- **Full Willtech™** face seal for even more user comfort.

Ref:	Name	Size	Classification	Exhalation valve	Seal	Fasteners	Packaging	NPF	APF
10 055 80	Honeywell 5110	M/L	FFP1 NR* D**	NO	Nasal	Elastic	20	4	4
10 051 13		XL							
10 055 82	Honeywell 5111	M/L	FFP1 NR D	YES	Nasal	Elastic	20	4	4
10 055 84	Honeywell 5210	M/L	FFP2 NR D	NO	Nasal	Elastic	20	10	10
10 055 86	Honeywell 5211	M/L	FFP2 NR D	YES	Nasal	Elastic	20	10	10
10 050 99		XL							
10 055 88	Honeywell 5221	M/L	FFP2 NR D	YES	Full	Adjustable straps	5	10	10
10 051 20		XL							
10 056 02	Honeywell 5321	M/L	FFP3 NR D	YES	Full	Adjustable straps	5	50	20
10 051 26		XL							

The models 5111 M/L, 5211 M/L and 5321 M/L are ATEX

*NR = Non reusable -**D = tested using Dolomite

PREMIUM SERIES 4000

RESPIRATORY FLAT-FOLD MASKS IN SINGLE BAG

- **Flat-fold mask** in an individual bag for maintaining hygiene. Easy to use.
- **Light** (7g-14g) for better comfort.
- **Dispenser.**
- **Single elastic strap** soft and durable for ease of use.
- **No staples** in order to prevent any irritation.

Ref:	Name	Size	Classification	Exhalation valve	Seal	Fasteners	Packaging	NPF	APF
10 056 05	Honeywell 4110	M/L	FFP1 NR* D**	NO	Nasal	Elastic	20	4	4
10 056 08	Honeywell 4111	M/L	FFP1 NR D	YES	Nasal	Elastic	10	4	4
10 056 11	Honeywell 4210	M/L	FFP2 NR D	NO	Nasal	Elastic	20	10	10
10 056 14	Honeywell 4211	M/L	FFP2 NR D	YES	Nasal	Elastic	10	10	10
10 056 30	Honeywell 4311	M/L	FFP3 NR D	YES	Nasal	Elastic	10	50	20

*NR = Non reusable -**D = tested using Dolomite
NPF: Nominal Protection Factor - Theoretical level of protection of a respirator calculated on data on the performance measured in the laboratory.
APF: The Assigned Protection Factor is the level of respiratory protection in the workplace that a respiratory mask or class of respirators must provide to the user.

Single-use masks

Comfort Range

SERIES 2000

RESPIRATORY SINGLE-USE MASKS IN A SINGLE BAG

- **Low-profile shape:** perfect vision and ease of use in combination with protective eyewear.
- **Wraparound shape:** large surface area for reduced breathing resistance and increased comfort.
- **No staples:** no risk of irritation to the skin.
- **Coloured nose-bridge:** easy adjustment and instant identification of the classification/level of protection.
- **Willtech seal:** hypoallergenic, absorption of perspiration and an increased comfort.
- **Individual reusable bag:** protects the mask before use and during breaks in intermittent use.
- **No PVC, Silicone, Latex and Staples:** more environmentally friendly and hypoallergenic.

Ref:	Name	Size	Classification	Exhalation valve	Seal: Willtech™	Fasteners	Packaging	NPF	APF
10 315 90	Honeywell 2110	M/L	FFP1 NR* D**	NO	YES	Elastic	25	4	4
10 315 91	Honeywell 2111	M/L	FFP1 NR D	YES	YES	Elastic	20	4	4
10 315 92	Honeywell 2210	M/L	FFP2 NR D	NO	YES	Elastic	25	10	10
10 315 93	Honeywell 2211	M/L	FFP2 NR D	YES	YES	Elastic	20	10	10
10 315 94	Honeywell 2311	M/L	FFP3 NR D	YES	YES	Elastic	20	50	20

*NR = Non reusable - **D = tested using Dolomite

COMFORT SERIES 5000

THE BEST COMBINATION IN TERMS OF PERFORMANCE FOR STANDARD WORKING CONDITIONS

- **Nose-bridge:** improved individual fit.
- **High performance exhalation valve:** easier breathing during periods of prolonged use.
- **Double stapled elastic strap:** strong in case of repeated removals, without touching the filtering section.
- **Exclusively designed seal adapted to the nose:** good fit and comfort throughout the day.
- **Hypoallergenic:** minimal risk of irritation.

Ref:	Name	Size	Classification	Exhalation valve	Seal	Fasteners	Packaging	NPF	APF
10 072 21	Honeywell 5185	M/L	FFP1 NR* D**	NO	Nasal	Elastic	20	4	4
10 072 22	Honeywell 5186	M/L	FFP1 NR D	YES	Nasal	Elastic	20	4	4
10 072 23	Honeywell 5208	M/L	FFP2 NR D	NO	Nasal	Elastic	20	10	10
10 072 24	Honeywell 5209	M/L	FFP2 NR D	YES	Nasal	Elastic	20	10	10
10 156 35	Honeywell 5311	M/L	FFP3 NR D	YES	Nasal	Elastic	10	50	20

*NR = Non reusable - **D = tested using Dolomite

Single-use masks — Comfort Range

HONEYWELL 800 SERIES

New

THE BEST COMBINATION OF SAFETY, PERFORMANCE AND COMFORT

- Single use moulded masks with a **PU foam seal** providing **exceptional fit and comfort.**
- Made of **high performing, humidity-resistant and low breathing resistant material** to increase comfort and wearer acceptance.
- Intuitive mask that can be **quickly and easily put on** with a minimum level of adjustment required, providing a comfortable and secure fit.
- **High performance exhalation valve** to enhance comfort throughout the day.
- **Metallic nose clip** easy to shape around the nose.
- **Twin elastics welded outside** the filtering area to prevent any risk of leakage and to increase stability and fit on the face.
- **Ultra-light respirator** (from 8 to 14 g) to minimize fatigue and increase wearer acceptance.
- **Dolomite (D) clogging test approved.** The mask can be used for a long period of time while maintaining its performance in breathing resistance and filtration.
- Can be worn with **safety spectacles or goggles** with excellent field of vision.
- No Latex, no PVC and no Silicone to prevent irritations and risks of allergies.
- Available in **FFP1 & FFP2** with and without valve.

Ref:	Name	Size	Classification	Exhalation valve	Seal	Fasteners	Packaging	NPF	APF
10 340 31	Honeywell 810	M/L	FFP1 NR D	NO	NASAL	Elastic	30	4	4
10 340 32	Honeywell 811	M/L	FFP1 NR D	YES	NASAL	Elastic	20	4	4
10 340 34	Honeywell 820	M/L	FFP2 NR D	NO	NASAL	Elastic	30	12	10
10 340 35	Honeywell 821	M/L	FFP2 NR D	YES	NASAL	Elastic	20	12	10

Single-use masks — Specialty range

SPECIALTY SERIES 5000

ENHANCED COMFORT AGAINST SPECIFIC ODOURS

- **Preformed nose-bridge:** increased safety, quickly adjustable.
- **Willtech™ seal with absorbent properties:** exceptional comfort preventing the risk of irritation and increasing user acceptance.
- **Willtech™ seal with sealing film and foam:** for added security.
- **Large internal volume:** ease of movement for communication.
- **Moulded shells:** retains form even when wet due to the user and in case of a heavy load.
- **Light masks (10 to 28g):** user fatigue minimized
- **Double stapled flexible elastic strap, very strong:** better comfort.
- **High performance exhalation valve:** efficient removal of exhaled air and heat, easier breathing during periods of prolonged use.
- **Valve membrane protected against impacts:** increased safety.

For the 5251 model:

- **Adjustable straps:** easy individual adjustment for increased personal comfort.
- **Medium-Large and Extra-Large sizes:** better individual fit for added comfort.
- **Willtech ™ full-face seal:** increased individual comfort.

Ref:	Name	Size	Classification	Exhalation valve	Seal	Fasteners	Packaging	NPF	APF
10 055 91	Honeywell 5140	M/L	FFP1 NR* D** OV***	NO	Nasal	Elastic	20	4	4
10 055 93	Honeywell 5141	M/L	FFP1 NR D OV	YES	Nasal	Elastic	20	4	4
10 055 95	Honeywell 5251	M/L	FFP2 NR D OV	YES	Full	Adjustable straps	5	10	10
10 051 22		XL							
10 055 98	Honeywell 5161	M/L	FFP1 NR D AV****	YES	Nasal	Elastic	20	4	4
10 056 00	Honeywell 5261	M/L	FFP2 NR D AV	YES	Nasal	Elastic	20	10	10

*NR = Non reusable -**D = tested using Dolomite dust - OV = Organic vapour***-****AV = acid vapour.

Single-use masks

Economy range

SUPERONE SERIES

ECONOMIC, SIMPLE AND EFFECTIVE

- **Unique design and shape:** limited number of references.
- **Pre-formed shell & rigid half-mask:** the mask shape is maintained throughout use, for increased comfort.
- **Internal volume:** facilitated communication, no pressure on the face for increased comfort.
- **Inner layer, ultra-light and ultra-soft:** soft and pleasant touch to the skin to avoid irritation and increase comfort, easy breathing for greater acceptance over time.
- **Upper preformed section near the nasal outline:** quick and easy adjustment, highly effective and safe, fits all faces.
- **Moving nasal element:** compatible with goggles, excellent field of vision.
- **High-performance exhalation valve:** low exhalation resistance, mask inside cooler for enhanced comfort and acceptance over time.
- **Protected valve membrane on the front:** minimal risk of damage and leakage for increased safety.

Ref:	Name	Classification	Exhalation valve	Fasteners	Packaging	NPF	APF
10 132 03	Honeywell SuperOne 3203	FFP1 NR* D**	NO	Elastic	30	4	4
10 132 04	Honeywell SuperOne 3204	FFP1 NR D	YES	Elastic	20	4	4
10 132 05	Honeywell SuperOne 3205	FFP2 NR D	NO	Elastic	30	10	10
10 132 06	Honeywell SuperOne 3206	FFP2 NR D	YES	Elastic	20	10	10
10 325 01	Honeywell SuperOne 3207	FFP3 NR D	NO	Elastic	30	50	20
10 325 02	Honeywell SuperOne 3208	FFP3 NR D	YES	Elastic	20	50	20

*NR = Non reusable - **D = tested using Dolomite

Half Masks for limited use

FREEDOM

THE GAS OR PARTICLE REUSABLE PROTECTION HALF-MASK IS MAINTENANCE FREE, EASY TO USE, SAFE AND HYGIENIC

- **Wide field of vision** thanks to the low position of the filters.
- **Optimal breathing comfort,** with a wide exchange surface with the outside (two filters).
- **Extra-light (265g)** suitable for long duration jobs.
- **Disposed of when filters are saturated:** user-friendly – no maintenance.

Technical description

- Twin filter system, "click-fit" fittings.
- Elastic sliding one-piece harness.
- Kraton body®, preformed.
- Universal size.
- White colour.
- EN 405 Standard.

Areas of application

- **Laboratories, pharmaceutical industry.** Exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Mechanical industry, automotive industry.** Painting, protection against dust in workshops.

For gases and vapours, NPF 50 - APF 10

For particulates with P3: NPF 50 - APF 20

For gases with P3: NPF 50 - APF 10

Half masks with combined filters

Ref:	Code	Description	Packaging
10 015 92	■□	FF A1P1	Box of 10
10 016 01	■□	FF A2P2	Box of 10
10 016 02	■□	FF A2P3	Box of 10
10 016 10	■□■■■	FF ABEK1P3	Box of 10

Half masks with particle protection filter

Ref:	Code	Description	Packaging	NPF	APF
10 015 97	□	FF P3	Box of 10	50	20

Half masks with short-term use Gas/vapour protection filters

Ref:	Code	Description	Packaging	NPF	APF
10 015 91	■	FF A1	Box of 10	50	10
10 015 98	■	FF A2	Box of 10	50	10

Any of the above gas protection filters can be combined with dust protection. This additional protection requires fastening covers.

Half masks with special paint protection filter

Ref:	Code	Description
10 016 07	■	FF A1 + 10 pairs of protection prefilters

Pre-filters and cover for Freedom masks

Ref:	Code	Description	Packaging	NPF	APF
10 028 00	□	P1 Prefilters	Box of 20	4,5	4
10 028 01	□	P2 prefilters	Box of 20	12	10
10 016 06		Cover for prefilters P1 and P2	Box of 20	N/A	N/A

Half masks and full-face masks - Click-Fit

Honeywell Industrial Safety offers a complete range of single or dual filter, half mask and full-face masks. Made of silicone or elastomer, comfortable and easy to use, they are suitable for many types of applications.

VALUAIR

DURABLE SIMPLICITY

- **Ergonomic an soft body** made from thermoplastic elastomer for comfort and optimal wearing.
- **Four-point harness** for correct positioning of the mask.
- **Click-fit** cartridge fastening system.

Areas of application

- **Construction:** sanding, plastering, sawing, painting.
- **Mechanical engineering, machining.**
- **Painting:** protection against dust in workshops.
- **Livestock and horticulture:** preparing spray mixtures, application of pesticides/herbicides.

Technical description

Twin filter system	"Click-fit" connection
Harness	Single unit four-point harness
Face piece	Thermoplastic elastomer
Face seal	Rounded and soft edges on the body of the mask
Standard	EN 140

For gases and vapours, NPF 50 - APF 10

For particulates with P3: NPF 50 - APF 20

For gases with P3: NPF 50 - APF 10

For Class 1 gas filters: 10 or up to 1,000 ppm (whichever is the lower)

Ref:	Name	Size	Weight
10 015 73	Valuair	M	109g
10 015 74	Valuair	L	113g

PREMIER

IMPROVED COMFORT AND LONG-LASTING PROTECTION

- Comfortable thanks to its **silicone body.**
- **Extra-comfortable harness** for long-term work.
- **Click-fit** cartridge fastening system.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, work in clean rooms.
- **Oil and gas industry:** handling chemicals without without the risk of splashes (gas detection).

Technical description

Twin filter system	"Click-fit" connection
Harness	Single unit four-point harness with neck strap
Face piece	Silicone
Face seal	Rounded and soft edges on the body of the mask
Standard	EN 140

Ref:	Name	Size	Weight
10 015 75	Premier	M	140g
10 015 76	Premier	L	145g

Half masks and full-face masks - Click-Fit

MX/PF 950

UNPARALLELED COMFORT FOR ALL FACES AND DURABLE PROTECTION

- **Triple face seal** for optimal sealing and protection.
- **Extra-comfortable harness** for long-term work.
- **Click-fit** cartridge fastening system.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

Technical description

Twin filter system	"Click-fit" connection
Harness	Single unit four-point harness with neck strap
Face piece	Silicone
9 Face seal	Large "triple contact" face seal
Standard	EN 140

Ref:	Name	Size	Weight
10 015 58	MX/PF F950	M	220g

For gases and vapours: NPF 50 - APF 10*

For particulates with P3: NPF 50 - APF 20

For gases with P3: NPF 50 - APF 10*

* For Class 1 gas filters: 10 or up to 1,000 ppm (whichever is the lower)

* For Class 2 gas filters: 10 or up to 5,000 ppm (whichever is the lower)

OPTIFIT TWIN

OPTIMAL BREATHING COMFORT FOR LONG-TERM WORK USING A FULL-FACE MASK

- **Silicone body** and ergonomic design for optimum fit.
- **Wide field of vision** through the panoramic screen.
- **Click-fit** cartridge fastening system.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders creating a risk for skin and eyes, working in clean rooms.
- **Oil and gas industry:** handling chemicals where there is a risk of splashes (gas detection), chemical sampling.
- **Mechanical industry, automotive industry:** application of paints and solvents with a risk for skin and eyes.
- **Chemical Industry:** manufacture of paints, solvents, high risk products.

Ref:	Name	Size	Weight	Width x Height
17 152 41	Optifit Twin	M	113g	152.6 x 190.7mm
17 152 51	Optifit Twin	L	140g	161.0 x 204.1mm
17 152 31	Optifit Twin	S		124.5 x 177.7 mm

Technical description

Body	Silicone
Eyepiece	Polycarbonate
Harness	Adjustable five-point harness
Speech diaphragm	Integrated (plastic)
Twin filter system	"Click-fit" fasteners
Wearing corrective lenses	Possible
Standard	EN136

For gases and vapours: NPF 2,000 - APF 20*

For particulates with P3: NPF 2,000 - APF 40

For gases with P3: NPF 2,000 - APF 20*

For Class 1 gas filters: 10 or up to 1,000 ppm (whichever is the lower)

For Class 2 gas filters: 10 up to 5,000 ppm (whichever is the lower)

Half masks and full-face masks - Click-Fit

FILTERS: CLICK-FIT

WIDE RANGE OF FILTERS FOR PROTECTION AGAINST PARTICLES AND/OR GAS/VAPOUR

- Wide field of vision, thanks to the low position of the filters and ergonomic design.
- Optimal breathing comfort, with a large exchange surface to the outside (2 filters).
- "Click-fit" system for superior protection.

Areas of application

- **For use with half masks:**

VALUAIR

- **Construction:** sanding, plastering, sawing, painting.
- **Mechanical engineering, machining.**
- **Painting:** protection against dust in workshops.
- **Farming and horticulture:** preparing spray mixtures, application of pesticides/herbicides.

PREMIER

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

MX/PF

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

OPTIFIT TWIN FULL-FACE MASKS

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders creating a risk for skin and eyes, working in clean rooms.
- **Oil and gas industry:** handling chemicals where there is a risk of splashes (gas detection), chemical sampling.
- **Mechanical industry, automotive industry:** application of paints and solvents with a risk for skin and eyes.
- **Chemical Industry:** manufacture of paints, solvents, high risk products.

Technical description

Housing	Plastic
Connection	"Click-fit"
Protection	Particles and/or gas/vapour
Standards	EN 14387, EN143

Ref:	Code	Description	Packaging
10 016 20	■ □	A1P3	Box of 6
10 016 09	■ ■ □	A1B1P3	Box of 6
10 016 19	■	A1	Box of 10
10 015 83	■ □	A2P3	Box of 6
10 015 81	■ ■ ■ ■	ABEK1	Box of 10
10 015 87	■ ■ ■ ■ □	ABEK1P3	Box of 6
10 028 00	P1 Prefilters		Box of 20
10 028 01	P2 prefilters		Box of 20
10 035 29	P3 filter (LP)		Box of 10
10 015 90	Cover for prefilters P1/P2		Box of 20

Half masks and full-face masks – N Series

N5500

Honeywell NORTH

DURABLE SIMPLICITY

- **Half mask, flexible and durable made from elastomer.**
- **Easy to use**: its ergonomic design and improved suspension system fits perfectly on the head and face, providing a high level of comfort.
- **With double connection filter, class 1 N Series.**

Areas of application

- **Construction:** sanding, plastering, sawing, painting.
- **Mechanical engineering, machining.**
- **Painting:** protection against dust in workshops. N.B. not for use with isocyanate based paints.
- **Livestock and horticulture:** preparing spray mixtures, application of pesticides/herbicides.

For gases and vapours: NPF 50 - APF 10*

For particulates with P3: NPF 50 - APF 20

For gases with P3: NPF 50 - APF 10*

* For Class 1 gas filters: 10 or up to 1,000 ppm (whichever is the lower)

* For Class 2 gas filters: 10 or up to 5,000 ppm (whichever is the lower)

Technical description

Twin filter system	Fittings: For the N Series range of filters
Harness	Single unit four-point harness with neck strap
Face piece	Flexible elastomer
Face seal	Rounded and soft edges on the body of the mask
Standard	EN 140

Ref:	Description	Material
N65550031*	N5500, size S	Elastomer
N65550032*	N5500, size M	Elastomer
N65550033*	N5500, size L	Elastomer

N7700

Honeywell NORTH

OPTIMAL COMFORT AND PROTECTION

- **Soft and durable half mask medical grade silicone:** for an optimal fit.
- **Easy to use:** its ergonomic design and improved suspension system fits perfectly on the head and face, providing a high level of comfort.
- **With double connection filter, class 1 N Series.**

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

Technical description

Twin filter system	"N SERIES" connections
Harness	Single unit four-point harness with neck strap
Face piece	Non degradable silicone
Face seal	Rounded and soft edges on the body of the mask
Standard	EN 140

Ref:	Description	Material
N65770031*	N7700, size S	Silicone
N65770032*	N7700, size M	Silicone
N65770033*	N7700, size L	Silicone

*This respiratory equipment is acceptable for use in explosive atmospheres with a dust risk (zone 21), and a gas risk for the groups I and IIA (zone 1); for occasional exposure.

Half masks and full-face masks – N Series

N 5400

Honeywell NORTH

DURABLE SIMPLICITY

- **Light full-face mask, soft and flexible:** with four-band harness and double filter connection for Class 1 N series filters.
- **Easy to use:** provides an excellent fit.
- **High chemical resistance.**
- **Polycarbonate visor:** hard anti-scratch and impact resistant treated, 200° field of view.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders creating a risk for skin and eyes, working in clean rooms.
- **Oil and gas industry:** handling chemicals where there is a risk of splashes (gas detection), chemical sampling.
- **Mechanical industry, automotive industry:** application of paints and solvents with a risk for skin and eyes.
- **Chemical Industry:** manufacture of paints, solvents, high risk products.

For gases and vapours: NPF 2,000 - APF 20*

For particulates with P3: NPF 2,000 - APF 40

For gases with P3: NPF 2,000 - APF 20*

For Class 1 gas filters : 10 or up to 1,000 ppm (whichever is the lower)

For Class 2 gas filters: 10 up to 5,000 ppm (whichever is the lower)

Technical description

Body	Elastomer
Eyepiece	Polycarbonate
Harness	Adjustable 4-point harness
Twin filter system	"N SERIES" connections
Wearing corrective lenses	Possible
Standard	EN136

Ref:	Description	Material
N65754101*	N5400	Elastomer

N SERIES FILTERS

WIDE RANGE OF FILTERS FOR PROTECTION AGAINST PARTICLES AND/OR GAS/VAPOUR

- N series cartridges are designed to be used across the N series range of half masks and full-face masks (N5500, N7700, N5400). A wide range of cartridges with plastic body, single threaded connection.

Ref:	Description
Dust filters	
N06575008	P3
N7500P3	Round filter P3
N7500P3O	Round filter P3O
N06575035	Round filter adapter
Prefilter	
7506P2	Prefilter P2
N750036A	Adapter (CAP+SPIDER)

Ref:	Description	
Gas filters		
N06575001L	A1	
N06575001A2*	A2	New
N06575003L*	ABE1	
N06575004L	K1	
N06575009L*	ABEK1	
Combined filters		
N06575081L*	A1P3	
N06575001A2P3*	A2P3	New
N06575083L	ABE1P3	
N06575084L*	K1P3	
N06575089L*	ABEK1P3	

*This respiratory equipment is acceptable for use in explosive atmospheres with a dust risk (zone 21), and a gas risk for the groups I and IIA (zone 1); for occasional exposure.

Half masks and full-face masks – RD40 Connection System

N7700 – RD40

Honeywell NORTH

OPTIMAL COMFORT AND PROTECTION

- **Soft and durable folding silicone half mask,** non-degradable, for an optimal fit.
- **Easy to use**, ergonomic design and improved suspension system that fits snugly on the top of the head providing a high level of comfort.
- **Threaded connection, DIN** for Class 2 filters.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

Technical description

Body	Silicone
Harness	Single unit four-point harness with neck strap
Single filter system	"RD40" connection maximum weight of the filter: < 300g
Standard	EN140

Ref:	Description	Material
N65770015	N7700, size M	Silicone
N65770016	N7700, size L	Silicone

For gases and vapours: NPF 50 - APF 10*

For particulates with P3: NPF 50 - APF 20

For gases with P3: NPF 50 - APF 10*

* For Class 1 gas filters: 10 or up to 1,000 ppm(whichever is the lower)

* For Class 2 gas filters: 10 or up to 5,000 ppm

N5400 – RD40

Honeywell NORTH

SIMPLE, RELIABLE AND LONG-LASTING

- **Light elastomer or silicone mask,** soft and flexible with head harness consisting of four or five straps.
- **Easy to use** and a perfect fit.
- **High resistance to chemicals.**
- **Reinforced polycarbonate screen** resistant to impacts and scratches providing a wide 200° field of view.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders, clean rooms.
- **Oil and gas industry:** handling chemicals where there is no risk of splashes (gas detection).

Technical description

Body	Silicone or elastomer
Eyepiece	Polycarbonate
Harness	Adjustable four-point (version elastomer) or five-point (silicone version) harness
Speech diaphragm	Integrated (plastic)
Single filter system	"RD40" connection
Wearing corrective lenses	Possible
Standard	EN136

Ref:	Description	Material
N65754201	N5400	Elastomer
N65754301	N5400	Silicone

For gases and vapours: NPF 2,000 - APF 20*

For particulates with P3: NPF 2,000 - APF 40

For gases with P3: NPF 2,000 - APF 20*

For Class 1 gas filters : 10 or up to 1,000 ppm (whichever is the lower)

For Class 2 gas filters: 10 up to 5,000 ppm (whichever is the lower)

Half masks and full-face masks – RD40 Connection System

OPTIFIT SINGLE

COMFORT AND WIDE RANGE OF VISION FOR LONG-TERM WORK

- **Ergonomic body:** made from silicone for an optimal fit.
- **Wide field of vision:** through the panoramic screen.
- **Easy to assemble and disassemble:** for easy cleaning and maintenance.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders creating a risk for skin and eyes, working in clean rooms.
- **Oil and gas industry:** handling chemicals with a risk of splashes (gas detection), and sampling chemicals.
- **Mechanical industry, automotive industry:** application of paints and solvents with a risk for skin and eyes.
- **Chemical Industry:** manufacture of paints, solvents, high risk products.

Technical description

Body	Silicone
Eyepiece	Polycarbonate
Harness	Adjustable five-point
Speech diaphragm	Integrated (plastic)
Single filter system	RD 40 Connection
Neck strap	Flame retardant cotton
Wearing corrective lenses	Possible
Standard	EN 136

Ref:	Weight	Name	Colour	Size
17 150 01	580g	Optifit	■	S
17 150 11	580g	Optifit	■	M
17 150 21	580g	Optifit	■	L

For gases and vapours: NPF 2,000 - APF 20*

For particulates with P3: NPF 2,000 - APF 40

For gases with P3: NPF 2,000 - APF 20*

For Class 1 gas filters : 10 or up to 1,000 ppm (whichever is the lower)

For Class 2 gas filters: 10 up to 5,000 ppm (whichever is the lower)

PANORAMASQUE

THE BENCHMARK FOR PERFORMANCE AND COMFORT

- **Broad and flexible body** for an optimum seal.
- **Five-point harness** for excellent stability of the mask on the face.
- **Wide face screen** for better protection and improved visual comfort.

Areas of application

- **Laboratories, pharmaceutical industry:** exposure to aerosols containing bacteria or viruses, handling powders creating a risk for skin and eyes, working in clean rooms.
- **Oil and gas industry:** Handling chemicals with a risk of splashes (gas detection), and sampling chemicals.
- **Mechanical industry, automotive industry:** application of paints and solvents with a risk for skin and eyes.
- **Chemical Industry:** manufacture of paints, solvents, high risk products.

Technical description

Body	Available in silicone and EPDM
Eyepiece	Available in polycarbonate, polymethacrylate, in specific material for the protection against chlorine and solvents, and in laminated glass
Harness	Adjustable five-point
Speech diaphragm	Option available (metal)
Single filter system	RD 40 Connection
Neck strap	Flame retardant cotton
Wearing corrective lenses	Possible
Weight	530g
Standard	EN 136

Ref:	Description
17 103 94	Panoramasque in black EPDM with PMMA (methacrylate) eyepiece
17 109 87	Panoramasque in yellow silicone and PMMA (methacrylate) eyepiece and speech diaphragm
17 103 95	Panoramasque in black EPDM and PMMA (methacrylate) eyepiece and speech diaphragm
17 110 00	Panoramasque in black EPDM with chlorine and solvent protection eyepiece
17 110 01	Panoramasque in black EPDM with laminated glass eyepiece
17 109 80	Panoramasque in yellow silicone and PMMA (methacrylate) eyepiece

After maintenance work carried out on a mask, check for leaks using the Honeywell test kit or a specific test kit

Filters – RD40 Connection system

A comprehensive range of efficient plastic and aluminum filters suitable for different application areas.

ALUMINUM FILTERS

HIGH-END RD40 FILTERS

- **High performance filtration of gas and particles beyond CE requirements:** for longer and excellent filtration effectiveness.
- **Specific cartridge structure:** for better lower breathing resistance and user comfort.
- **Adapted design:** clearing the field of view.
- **Individually wrapped:** for better protection.
- **Safety covers:** for storage of filters of up to six months.
- **Comes with two sealing plugs** for safe storage.
- Available in economic, bulk version (box of 27 filters).

Technical description

Housing	Aluminum
Connection system	RD40
Protection	Particles and/or gas/vapour
Standards	EN 14387, EN 143

Ref:	Code	Description	Ref:	Code	Description
17 850 10		A2	**17 840 00**		A2B2E2K2 P3
17 830 10		A2 P3	**17 867 30**		A2B2E2K1 NO P3
17 850 40		A2B2	**17 810 00**		A2B2E2K2
17 830 40		A2B2 P3	**17 850 25**		AX (450)
17 850 30		B2	**17 850 18**		AX P3
17 830 30		B2 P3	**17 841 40**		Hg (Mercure) P3
17 830 60		E2 P3	**17 850 19**		A2B2E2K2Hg P3
17 850 80		K2 (250)			
17 810 80		K2 (450)			
17 830 80		K2 P3			

Bulk Pack (27 filters)

Ref:	Code	Description
17 830 10-B		A2 P3
17 840 00-B		A2B2E2K2 P3
17 830 40-B		A2B2 P3
17 810 00-B		A2B2E2K2
17 850 40-B		A2B2
17 850 10-B		A2

Filters – RD40 Connection system / Accessories

PLASTIC FILTERS

THE STANDARD FOR RD40 FILTERS

- **Lasting and lightweight filter housing:** for better comfort.
- **Suitable for use in ATEX zones:** and/or in the nuclear industry.
- **High performance filtration of gas and particles beyond CE requirements:** for longer and excellent filtration effectiveness.
- **Specific cartridge structure:** for better breathing resistance and user comfort.
- **Adapted design:** clearing the field of view.
- **Safe storage:** between each use (cover).
- Available in economic, bulk version (box of 27 filters).

Technical description

Housing	Plastic
Connection system	RD40
Protection	Particles and/or gas/vapour
Standards	EN 14387, EN143

Ref:	Code	Description	Ref:	Code	Description
17 880 00		A2	**17 881 50**		A2B2E2K2
17 880 05		A2P3	**17 881 45**		A2B2E2K1P3
17 880 75		A2B2	**17 881 55**		A2B2E2K2P3
17 880 70		A2B2P3	**17 881 61**		AX
17 880 10		B2	**17 881 66**		AXP3
17 880 15		B2P3	**17 860 00**		P3 - TM3/TM2P/TH2
17 880 20		K2			
17 880 25		K2P3			

Bulk Pack (27 filters)

Ref:	Code	Description
17 860 00-B		P3 - TM3/TM2P/TH2
17 881 55-B		A2B2E2K2 P3
17 880 70-B		A2B2 P3
17 881 50-B		A2B2E2K2
17 880 05-B		A2P3
17 880 75-B		A2B2

Disposable visor covers, cases and goggles

Ref:	Name	Packaging
17 100 88	Box of 20 peelable screens for Panoramasque	20 units
1 7101 74	Pack of 25 Optifit peelable screens	25 units
N80836A	Pack of 15 peelable screens for N5400 full-face mask	15 units
17 725 25	X Pack Case	Unit
17 725 26	X pack case, easily decontaminated	Unit
30 223 00-STD	Pano/Optifit prescription eyewear frame	Unit

Maintenance

Ref:	Name	Packaging
17 266 02	Cleaning wipes for masks and half masks	100 units
17 790 65	PPE cleaning product U.S. (5 liters or just over 1 gallon)	Unit
17 790 61	ALTUSIL eyepiece burette	Unit

Escape devices

Compact: evacuation mask or hood for chemical and petrochemical companies

EVAMASQUE DIN

FILTERING HALF-MASK FOR 15 MINUTES OF EVACUATION FROM CHEMICAL ENVIRONMENTS

- **Convenient and simple:** safe to use.
- **Compact and lightweight:** for easy wearing on a belt.
- **Visual comfort.**
- **Storage up to 12 years:** (4 years without service or two filter changes during the maximum storage period).

Areas of application

- Emergency evacuation in the oil and gas sector, the chemical industry (without risk of splashing).

Technical description

Material	Molded half mask in black EPDM, elastomer harness, silicone and neoprene valves
Protection	ABEK
Packaging	Individual packing - protective case
Standards	DIN 58647-7

Ref:	Name
17 285 70	EVAMASQUE full-face mask with filter
17 285 71	Maintenance Kit
17 799 93	Protective case (with belt clip and strap)
17 288 21	Adhesive Tape - 50 meters or 164 feet (allows maintenance of about 90 units)
17 285 02	EVAMASQUE alone with elastic headband (without filter)

OPENGO

COMPACT AND EASY TO USE ESCAPE HOOD FOR USE IN HIGH-RISK CHEMICAL ENVIRONMENTS

- **Lightweight bag:** for maximum comfort for long-term work.
- Packaging inside aluminum bag for safer storage.
- **Large visor and high visibility hood:** for a safe evacuation.

Areas of application

- **Oil and gas industry, chemical industry:** emergency evacuation from a chemical accident with risks of splashes (skin and eyes).

Technical description

Colour	High visibility hood with two reflective stripes
Harness	Two large elastic bands
Neck seal	Molded elastomer
Eyepiece	Large panoramic screen
Protection	Versions ABEK, ABEK1 P3 and IPR available
Packaging	Compact and flat pouch with inner aluminum bag
Standards	EN 140, EN 14387

Ref:	Name	Packaging
17 288 06	Opengo with ABEK1 P3 filter	Delivered in a carrying bag
17 288 07	Opengo with IPR D91filter	Delivered in a carrying bag

Powered air purifying respirators (PAPR)

Honeywell Industrial Safety offers a range of certified power assisted respiratory protection equipment that is easy to use and complies with standards EN12941 and EN12942, and comes with a wide range of facial elements and RD40 filters**

TURBOVISOR MV

COMPLETE KIT FOR OPTIMAL COMFORT AND PROTECTION AGAINST PARTICLES

- **Lightweight and easy to use.**
- **Optimum field of view:** with a large visor.

Areas of application

- **Pharmaceutical industry:** handling of powders and active ingredients, etc
- **Food industry:** handling sensitizing food products (spices, flour, dust, etc.)
- **Metallurgy and steel works:** cutting, grinding, shaping, polishing, etc.
- **Wood industry:** cutting, sanding/polishing, etc.

Technical description

Headgear	Light
Screen	Available in polycarbonate or acetate
Battery life	6-hour version and 8-hour version
Standards	EN 146, EN 166
Protection level	TH2, NPF20

Ref: only for UK	Name
10 017 68	DTMV-1001 Turbovisor MV complete with polycarbonate visor (EN166 39-B), fabric face seal cassette, main filter and pre-filter, two disposable visor covers, 8 hour waist mounted battery pack, battery charger, cotton head cover, air flow test disc and fabric carrying bag
10 017 70	DTMV-1201 Turbovisor MV complete with polycarbonate visor (EN166 39-B), fabric face seal cassette, main filter and pre-filter, two disposable visor covers, 6 hour head mounted battery pack, battery charger, cotton head cover, air flow test disc and fabric carrying bag
Ref: for other countries	Name
10 017 69	Complete kit **Turbovisor MV 8 hours** consisting of a hood with polycarbonate screen, two visor covers, one cotton neck roll, one non-woven face seal, one motor unit, one 8-hour battery to be worn around the waist, one battery charger, one main filter TH2 + one prefilter and one flow speed test disk
10 017 71	Complete kit **Turbovisor MV 6 hours** consisting of a hood with polycarbonate screen, two visor covers, one cotton neck roll, one non-woven face seal, one motor unit, one 6-hour battery attached to head, one battery charger, one main filter TH2 and one prefilter and one flow speed test disk

Powered air purifying respirators (PAPR)

COMPACT AIR®

Honeywell NORTH

SIMPLE, ROBUST AND RELIABLE ASSISTED BREATHING APPARATUS

- The Compact Air system has been known for many years as **one of the most reliable and comfortable systems on the market.** The system is provided with bayonet or DIN connection pipes.

Areas of application

- **Pharmaceutical and chemical industries, food processing, metallurgy and steelworks, automotive.**

Technical description

Minimum air flow	150 ltr (39.63 US gal)/min
Battery	Rechargeable NiMh
Operating time	8-hours*
Charging time	10-hours
Alarm	No
Weight	1350 grams/48 ounces
Filter	Class 2 - P3, A2P AB2P, ABEK2P
Standards	EN12941 for respiratory protection apparatuses (hoods) EN12942 for respiratory protection apparatuses (masks)

*Depending on the filter/face piece combination

Ref:	Description
A150102-00	Compact Air® with bayonet fitting (hoods)
A150103-00	Compact Air® with DIN thread fitting (masks)
CA116	Dust Cover for PAPR Blower Battery (x10)

COMPACT AIR® 200

SAFETY, COMFORT AND FLEXIBILITY

- Compact Air® 200 is a powered air supply system designed to provide respiratory protection against gases, vapour and particles depending on the type of filter element used.
- The system comprises: a breathing unit and battery, a charger, a breathing tube, a nylon belt, and a flow meter.
- Provided with bayonet **thread connection or DIN.**
- **Three different alarms (audible, visual and vibrating)** notify the user when the lifetime of the battery reaches 10%, an additional alarm sounds when the filters are blocked or obstructed.
- **Lithium-ion battery for longer use.**
- **Choice of 16 facial elements:** to cover a wide range of applications.
- **PVC or nylon belt:** depending on the nature of the application (eg decontamination of equipment).

Areas of application

- **Automotive, pharmaceutical and chemical, welding industries.**

Technical description

Air flow	170 l (45 US gal)/min
Battery	Lithium-ion rechargeable
Operating time	8-hours*
Charging time	8-hours
Alarm	Three alarms (audible, visual and vibration)
Weight (without filters)	1005 grams (48 ounces)
Filter	Class 2 - P3, A2P, AB2P, ABEK2P, ABEK2HgP
Standards	EN12941 covering respiratory protection apparatus (hoods/welding helmets) EN12942 for respiratory protection apparatuses (masks)

*Depending on the filter/face piece combination

Ref:	Description
A150401	Compact Air 200 – with bayonet for hood
A150400	Compact Air 200 – DIN thread version for mask
A160684	Belt IN PVC for easy decontamination
A160696	Belt and backrest
A161356	Bayonet hose 970mm
CA222EU	Lithium-ion battery
A161301-10	Breathing tube covers -10 pcs
CA116	Dust Cover for PAPR Blower Battery (x10)

PAPR hoods and welding helmets

All hoods are available with additional spare parts, such as sweat bands, face seals and disposable visors. Compatible with PAPR, Compact Air, Compact Air 200 according to the configuration table.

PRIMAIR

LIGHTWEIGHT AND EASY TO USE

- **Wide field of view.**
- **Adjustable headband.**
- **Replaceable upper elements.**
- **Reusable headband and tubes, to reduce costs.**
- **Air delivery hose to the visor:** anti-fog, no cold air directed towards the user's head.
- **Extremely light semi-disposable hood:** designed for a wide range of applications. The disposable part is Tyvek coated to ensure high chemical resistance.
- **Easy to replace:** with two push buttons on the side.

Areas of application

- **Laboratories, pharmaceutical and light industries.**

Ref:	Description	Standard	Class	NPF	APF
A114110	Primair -VL	EN12941	TH2 (Compact Air 200)	50	20
			TH1 (Compact Air)	10	10
A160252	Disposable masks, 5 units	-	-	-	-

PRIMAIR PLUS

THE SOLUTION FOR THE PHARMACEUTICAL INDUSTRY

- **Wide field of view.**
- **Adjustable headband.**
- **Replaceable upper elements.**
- **Reusable headband and tubes.**
- **Air delivery hose to the visor:** no fog, no cold air directed towards the user.
- **Universal size:** covering the head and shoulders.
- **Coated version:** for painting environments.
- **Flexible semi-disposable hood:** with adjustable bib, extremely lightweight, designed for a wide range of applications.

Areas of application

- **Laboratories, pharmaceutical and light industries.**

Ref:	Description	Standard	Class	NPF	APF
PA111EU	Primair Plus hood with bib and harness	EN 12 941	TH 3 (Compact Air 200) TH1 (Compact Air)	500 10	40 10
PA121EU	Primair Plus hood with bib and harness - coated	EN 12 941	TH 3 (Compact Air 200) TH1 (Compact Air)	500 10	40 10
PA112EU	Disposable hoods - 3/box	-	-	-	-
PA122EU	Disposable coated hoods - 3/box	-	-	-	-

PAPR hoods and welding helmets

KOLIBRI

PROTECTION AGAINST IMPACTS

- **Compact design:** very light and comfortable.
- **Focused field of vision** that reduces light reflection.
- **Washable face seal:** flexible and elastic, easy replacement, ensuring increased operator comfort.
- **Disposable visor system:** for withdrawal even during operations.
- **HDPE hood:** modern aesthetics, providing light facial protection with comfortable cotton face seal.
- **Disposable visor that protects the main visor:** on the hood against damage and/or projections.
- **Headband equipped with a sweat band:** adjustable width and height for optimal comfort.
- **Washable face seal:** comfortable and ensures protective pressure around the face.

Areas of application

- **Automotive** painting, **metallurgy**, sanding and grinding, **chemicals**, handling and maintenance

Ref:	Description	Standard	Class	FNP	APF
A114102	Kolibri -VL	EN12941	TH1 Compact Air 200 / Compact Air	10	10
A160730	100 disposable visors	-	-	-	-
A161472	10 headbands with sweat band	-	-	-	-
A160741	5 acetate visors	-	-	-	-

JUNIOR A

THE REFERENCE FOR OPTIMAL PROTECTION AND A WIDE FIELD OF VIEW

- **Wide transparent visor:** which lets in light and provides a large field of view without any distortion.
- **Full-face protection:** including front deflector and chin cup.
- **Washable face seal:** flexible and resilient, ensuring a comfortable protective pressure around the face.
- **One clip system:** with spring for disposable visors. **Ensure easy installation of disposable visors** that protect the main visor against permanent damage.
- **Acetate components:** fully transparent and providing perfect view.
- Ensuring a comfortable protective pressure around the face.
- **Optional cape:** to protect the top of the head and neck from dust or liquid particles.

Areas of application

- **Painting**, sanding, grinding, **chemicals**, handling, maintenance

Ref:	Description	Standard	Class	NPF	APF
A114106	Junior A-VL	EN 12 941	TH1, Compact Air, Compact Air 200	10	10
A160734	100 disposable visors (JA)	-	-	-	-
A160733	Five visors (JA)	-	-	-	-

PAPR hoods and welding helmets

JUNIOR B, JUNIOR B COMBI

THE SOLUTION FOR APPLICATIONS IN THE CHEMICAL INDUSTRY

- **Flexible and light hood:** with polyurethane cape covering the head, neck and shoulders.
- **Disposable visor:** which fits over the hood's main visor and protects against damage.
- **Washable and replaceable neckband:** which guarantees a high level of protection.
- **Combined version:** consisting of a full safety helmet.

Areas of application

- **Chemical industry:** handling chemicals (liquid or powder), maintenance.

Ref:	Description	Standard	Class	NPF	APF
A114400	Junior B VL PU	EN12941	TH1 Compact Air TH3 Compact Air 200	10 50	10 20
A114200	Junior B Combi VL PU	EN12941	TH1 Compact Air TH3 Compact Air 200	10 50	10 20
A114201	Junior B Combi VL Neoprene	EN12941	TH1 Compact Air TH3 Compact Air 200	10 50	10 20
A160730	100 disposable visors	-	-	-	-
A160782	5 disposable visors	-	-	-	-
A162876	PU Hood	-	-	-	-

TIGERHOOD

HIGH PERFORMANCE SOLUTION FOR DEMANDING ENVIRONMENTS

- **Lightweight welding mask:** with classic 3C floating headband, balanced and stable.
- **Robust and durable:** for greater durability.
- **High performance material:** for increased impact resistance.
- **Better chemical:** resistance.
- **Superior resistance:** to scratches and cracks.
- **Excellent heat resistance.**

Areas of application

- **Welding**

Ref:	Description	Visor	Standard	Class	NPF	APF
A114725	Tigerhood VL	90x110	EN12941	TH1 Compact Air	10	10
A114728	Tigerhood VL	50x108	EN12941	TH1 Compact Air	10	10
A161472	10 Sweat bands	-	-	-	-	
517840	10 external screens 90x110 PC	-	-	-	-	
212920	Automatic darkening lens DIN 4/9-13					

EUROMASKI

THE COMBINED WELDING AND GRINDING PROTECTION

- **Dual-visor:** for welding and grinding.
- **Extremely lightweight design:** giving the user greater comfort.
- **Visor with UV and IR protection:** for welding.
- **Wide field of view:** without the need to raise the visor to locate potential hazards.
- **Removable visor:** offering a wide field of view for grinding.
- **Robust and durable.**
- Equipped with a flip-up UV filter shade 1,7 and a visor filter shade 8.

Areas of application

- **Welding**

Ref:	Description	Standard	Class	NPF	APF
A114703	Euromaski VL	EN12941	TH2 Compact Air 200, TH1 Compact Air	10 50	10 20
A161472	10 sweat bands	-	-	-	

Supplied air respirators

A set of air supply equipment, certified to the EN14594 standard for maximum comfort and safety.

AIRVISOR 2

SUPPLIED AIR RESPIRATOR WITH LOOSE-FITTING VISOR

- **Compact visor.**
- **Ultra light:** and easy to use.
- **Optimum field of view:** with a large visor.
- **Total Inward Leakage less than 0.05%:** for improved user safety.
- **Optimal flow regulation** to the visor.
- **Low flow alarm.**
- **Active carbon filter:** to retain odours.

Areas of use

- **Laboratories, pharmaceutical industry:** preparation of powders, handling of non-aggressive liquids with risk of projections.
- **Mechanical industry, automotive industry:** painting, acrylic varnishing.

Ref: 10 139 32 & 17 650 58

New Double Action Connector

- Ensures that the correct air supply is connected to the unit for increased safety and user confidence.
- No risk of accidental disconnection.

Technical description

Headgear	Wide range of specific visors
Screen	Available in polycarbonate or acetate
Output	Minimum flow 260 l/mn
Standards	EN14594 Class 4A (NPF2000) (except welding version 3A -NPF200)
Connections	CEJN or DAC

Ref:	Description	NPF	APF
10 139 32	**Standard Airvisor 2 Paint Spraying kit complete with:** acetate chemical resistant visor (EN166-2F), spraygun air hose with quick release connectors, two disposable visor covers, fabric hood and neck cover, waistbelt complete (DAVW-1001), carrying bag.	2000	40
10 139 34	**Standard Airvisor 2 Chemical kit complete with:** acetate chemical resistant visor (EN166-2F), two disposable visor covers and neck cover, waistbelt complete (DAVW-1003), carrying bag.	2000	40
10 139 35	**Standard Airvisor 2 Industrial kit complete with:** polycarbonate visor (EN166 39-B), two disposable visor covers and neck cover, waistbelt complete (DAVW-1003), carrying bag.	2000	40
10 139 83	**Airvisor 2 FV Welding kit series complete with:** helmet for high temperature protection, screen (90mm x 110mm), inner polycarbonate visor, fabric for face protection complete regulator with low flow alarm device and bag.	200	40
17 650 58	**Standard Airvisor 2 DAC Paint Spraying kit complete with:** acetate chemical resistant visor (EN166 2-F) with integral foam seal, spraygun air hose with quick release connectors, double action connectors, two disposable visor covers, fabric head and neck cover, waistbelt (DAVW-1001E) complete with warning whistle, storage bag.	2000	40
17 650 59	**Standard Airvisor 2 DAC Chemical kit complete with:** acetate chemical resistant visor (EN166 2-F) with integral foam seal, double action connectors, two disposable visor covers, fabric head and neck cover, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	2000	20
17 650 60	**Standard Airvisor 2 DAC Industrial kit complete with:** polycarbonate visor (EN166 2 B 9) with integral foam seal, double action connectors, two disposable visor covers, fabric head and neck cover, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	2000	40
17 650 64	**Standard Airvisor 2 DAC FV-Series Welding Kit including:** helmet for high temperature protection, screen (90mm x 110mm), inner polycarbonate visor, fabric for face protection, double action connectors, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	200	40
10 016 76	Disposable Head Cover		
10 017 33	Disposable Balaclava		
10 016 72	Internal Carbon Filter element		
10 017 31	Disposable visor covers (X10)		
10 017 32	Disposable visor covers (X50)		

For our full range of Airvisor 2 parts and accessories, please contact us.

Ref: 10 139 34 - 10 139 35
17 650 59 & 17 650 60

Ref: 10 139 83

Supplied air respirators

AIRVISOR 2 MV

SUPPLIED AIR RESPIRATOR WITH LOOSE-FITTING VISOR

- **Compact visor.**
- **Ultralight:** and easy to use.
- **Optimum field of view:** with a large visor.
- **Total Inward Leakage less than 0.05%:** for improved user safety.
- **Optimal flow regulation** to the visor.
- **Low flow alarm.**
- **Activated carbon filter** to remove odours.
- **Simplified care and maintenance.**

Areas of use

- **Laboratories, pharmaceutical industry:** preparation of powders, handling of non-aggressive liquids with risk of projections.
- **Aerospace and automotive industries:** painting, acrylic varnishing.
- **Activated carbon filter, low flow alarm, short and compact visor.**

Ref: 10 139 38 & 17 650 61

New Double Action Connector

- Ensures that the correct air supply is connected to the unit for increased safety and user confidence.
- No risk of accidental disconnection.

Ref: 10 139 39 - 10 139 80
17 650 62 & 17 650 63

Ref: 10 139 87

Technical description

Headgear	Wide range of visors
Screen	Available in polycarbonate or acetate
Output	Minimum flow 260 l/mn
Standard	EN14594 Class 4A (except welding version 3A)
Connections	CEJN or DAC

Ref:	Description	NPF	APF
10 139 38	**Airvisor 2 MV Paint Spraying kit complete with:** acetate chemical resistant visor (EN166-2F), spraygun air hose with quick release connectors, one fabric face seal casse te, two disposable visor covers, fabric hood and neck cover, waistbelt complete (DAVW-1001), carrying bag.	2000	40
10 139 39	**Airvisor 2 MV Chemical kit complete with:** acetate chemical resistant visor (EN166-2F) one fabric face seal cassette, two disposable visor covers, waistbelt complete (DAVW-1003), carrying bag.	2000	40
10 139 80	**Airvisor 2 MV Industrial kit complete with:** polycarbonate visor (EN166 39-B). one fabric face seal cassette, two disposable visor covers and neck cover, waistbelt complete (DAVW-1003), carrying bag.	2000	40
10 139 87	**Airvisor 2 W-Series Welding kit complete with:** helmet for high temperature protection, screen (90mm x 110mm), inner polycarbonate visor, flame-retardant fabric for face protection, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	2000	40
17 650 61	**Airvisor 2 DAC MV Paint Spraying kit complete with:** acetate chemical resistant visor (EN166 2-F), spraygun air hose with quick release connectors, double action connectors, one fabric face seal cassette, two disposable visor covers, fabric head and neck cover, waistbelt (DAVW-1001E) complete with warning whistle, storage bag.	2000	40
17 650 62	**Airvisor 2 DAC MV Chemical kit complete with:** acetate chemical resistant visor (EN166 2-F), double action connectors, one fabric face seal cassette, two disposable visor covers, fabric head and neck cover, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	2000	40
17 650 63	**Airvisor 2 DAC MV Industrial kit complete with:** polycarbonate visor (EN166 2 B 9), one fabric face seal cassette, two disposable visor covers fabric head and neck cover, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	2000	40
17 650 65	**Airvisor 2 DAC W-Series Welding kit complete with:** helmet for high temperature protection, screen (90mm x 110mm), inner polycarbonate visor, flame-retardant fabric for face protection, waistbelt (DAVW-1003E) complete with warning whistle, storage bag.	200	40
10 016 76	Disposable Head Cover		
10 017 33	Disposable Balaclava		
10 016 72	Internal Carbon Filter element		
10 017 78	Disposable visor covers (X10)		
10 017 79	Disposable visor covers (X50)		

For our full range of Airvisor 2 parts and accessories, please contact us.

Supplied air

CLEARFLOW 3

FILTRATION UNITS FOR AIR SUPPLY: LIGHT AND EASY TO USE

- **Very strong structure:** for an increased product lifetime.
- **High filtration capacity:** for optimal protection.
- **Can be used by up to four people or two people when using sprayguns.**
- **New single unit design.**

Areas of application

- Function of the face piece used (for example: Airvisor 2 or MC95)
- Painting in the automotive industry.
- Maintenance in the chemical, gas and petroleum industry.
- Laboratory work.

Technical description

Materials	Body in aluminum, plastic and brass regulators
Air flow	Up to 1,600 l/min (depending on the capacity of the factory airline system)
Protection against particles	High efficiency coalescing filter - filtration to 0.01 micron
Odour absorption	Large capacity activated carbon filter
Securing	Portable or wall-mounted version available

Complete ready to use filtration systems with a total flow of up to 1600 l/min

Ref:	Name
17 639 03	Clearflow 3, filtration unit, three elements, wall-mounted, two CEJN connectors
17 639 04	Clearflow 3, filtration unit, three elements, portable, two CEJN connectors
17 639 05	Clearflow 3, filtration unit, three elements, wall-mounted, two RBE 06 connections
17 639 06	Clearflow 3, filtration unit, three elements, portable, two RBE 06 connections
17 639 11	Clearflow 3, filtration unit, three elements, wall-mounted, two DAC (Double action connector) connections
17 639 12	Clearflow 3, filtration unit, three elements, portable, two DAC (Double action connector) connections
17 639 09	Clearflow 3 filtration unit, three elements, wall mounted, two seamless outputs* **Supplied without quick coupler*
17 639 10	Clearflow 3, filtration unit, three elements, portable, two connectionless outputs **Supplied without quick coupler*
10 017 22	Quick coupler connector (CEJN for Airvisor 2)
17 634 20	Quick coupler connector (RBE 06)
17 634 22	Quick coupler connector (AQR 06)
17 639 20	Quick coupler connector (double action for use with Airvisor 2 DAC)
17 639 16	Complete activated carbon stage
17 639 08	Replacement coalescing filter element
17 639 07	Replacement activated carbon filter element
17 639 28	Coalescing filter assembly (complete, supplied with connector)

Wall mounted combination system

Portable, stand mounted combination system

Supplied air respirators

BLUELINE & GREENLINE

STANDARD AIR INTAKE HOSE

- Food grade PVC Hose for maximum protection.
- CEJN connections.

Areas of application

- For use with Airvisor 2.

Technical description

Material	PVC
Lengths	3.5m/11.5 feet - 7.5m/24.6 feet - 10m/32.8 feet
Connection	CEJN or DAC

Ref:	Description
10 017 26	Blueline hose, length 3.5m or 11.5 feet with CEJN quick release connections
10 017 27	Blueline hose, length 7.5m or 24.6 feet with CEJN quick release connections
10 047 16	Blueline hose, length 10m or 32.8 feet with CEJN quick release connections
17 650 70	Greenline DAC (Double Action Connector) Air Supply Hose 3.5m
17 650 71	Greenline DAC (Double Action Connector) Air Supply Hose 7.5m
17 650 72	Greenline DAC (Double Action Connector) Air Supply Hose 10m

MC95

MAXIMUM SAFETY FOR INTENSIVE WORK

- Pressure regulator between 4 and 8 bar or 58-116 PSI for adaptation to different types of industrial air networks.
- Flow regulator in the mask for superior comfort.

Areas of application

- **Chemical Industry:** work with chemical hazards in confined spaces (0_2 <17%).
- **Oil and gas industry:** heavy maintenance work in highly toxic environments.
- **Laboratories, pharmaceutical industry:** exposure to bacteria or highly toxic or unknown viruses.

Technical description

Pressure	4-8 bar or 58-116 PSI pressure regulator
Air flow	Adjustable up to 300 l
Standards	EN 14594: 2005
Headgear	Compatible with Optifit and Panoramasque full masks
Connections	AQR06 or RBE06

Complete ready to use filtration stations with a total flow of 1600 l (352 US gallons)/min

Ref:	Description	NPF	APF
17 629 84	MC95 with EPDM Panoramasque and 10 meters (33.8 feet) hose kit with RBE06 connections	2000	40
17 630 41	MC95 with EPDM Panoramasque and 10 meters (33.8 feet) hose kit with AQR06 connections	2000	40
17 629 83	MC95 regulator, hose, belt with RBE06 connections	-	-
17 626 91	MC95 with EPDM Panoramasque and 10 meters (33.8 feet) hose kit with CEJN connections	2000	40

Supplied air respirators

MC91A

DOUBLE PROTECTION FOR HIGHLY CONTAMINATED AREAS

- P3 safety filter to ensure the continued protection against particles when disconnecting the air network.
- Flow 120 l or 31.7 US gal/min to 300 l or 79.25 US gal/min.

Areas of application

- **Construction:** Asbestos removal operations.
- **Wood industry:** Intensive work with high levels of dust.

Technical description

Air flow	Minimum flow of 160 l
Protection	Double protection with P3 safety filter
Standard	EN 14594: 2005
Headgear	Compatible with Optifit and Panoramasque full masks
Connections	RBE 06 and AQR 06

Ref:	Description	NPF	APF
17 629 20	MC 91A regulator, hose, RBE06 belt	2000	40
17 629 21	MC91A regulator, hose, belt, AQR06	2000	40
17 602 03	MC91A regulator with CEJN		

DE4

RESISTANT FOUR-OUTPUT FILTRATION UNIT FOR AIR SUPPLY DEVICES FOR HEAVY DUTY USE AND OUTDOORS ENVIRONMENT

- High efficiency filtration for optimum protection.
- Available with CEJN, RB06 or AQR06 connections

Areas of application

- For use with air supply apparatus.

Technical description

Supply pressure	Between 7 and 10 bar
Protection against particles	Equivalent effectiveness P3
Odour absorption	Large capacity activated carbon filter
Connections	CEJN, RBE 06 and AQR 06 available

Ref:	Name
17 635 25	Honeywell DE4 (4 outputs) RBE 06
17 635 26	Honeywell DE4 (4 outputs) AQR 06
17 635 38	Honeywell DE 4 (4 outputs) CEJN

Accessories for DE4

Ref:	Name
17 635 04	DE4 filter set maintenance kit

As soon as any odour of oil is perceived in the air being breathed or when the pressure difference downstream and upstream the filters is more than one bar, it is necessary to change the set of filters on the distributor-purifier.

Calculate the pressure by subtracting the pressure reading on the "outlet port" manometer from the pressure reading on the "inlet" manometer. This reading must be carried out when the devices, connected to the DE4, are discharging.

In all cases it is absolutely imperative to change of filters at least once a year even when the apparatus is only operated occasionally.

Fresh Air Breathing Apparatus

4BA

THE SUPPLY OF FRESH AIR IN ENCLOSED SPACES

- **Larger hose diameter:** for high breathing comfort.
- **Compatibility with a powerful air terminal:** for comfort.

Areas of use

- **Construction:** Heavy duty work (wood treatment, painting) in confined spaces, work in contaminated atmosphere.

Technical description

Hose diameter	35mm or 1.3 inches
Hose length	8-metres or 26.25 feet
Protection	Air inlet protected by a coarse particle filter
Headgear	For use with full Panoramasque masks
Harness	Leather harness
Air terminal	Option available
Standard	EN138

Ref:	Description	NPF	APF
17 525 10	4BA 8m (26.25') with PANO PH leather harness	2000	40
17 525 17	4BA 8m (26.25") with PANO F1 leather harness	2000	40
17 525 22	4BA 8m (26.25") with leather strap harness PANO F1 + helmet	2000	40
17 525 25	4BA 8m (26.25") with leather strap harness PANO NT+ helmet	2000	40
17 525 26	4BA 8m (26.25") with leather harness PANO NT+ helmet	2000	40
17 525 81	4BA 8m (26.25") with leather strap harness without mask	2000	40
17 611 44	4BA 8m (26.25"), case, leather harness, without mask	2000	40
17 525 00	4 BA 8m with Leather Harness, Pano Mask. In Blue fabric Bag.		
17 525 83	4BA 20m with Leather Harness, Silicone Mask. In Blue Fabric Bag.		
17 525 10-20	4BA 20m with Leather Harness, Pano Mask with Speech Diaphragm. In Blue Fabric Bag.		
17 525 17-20	4BA 20m with Leather Harness, Pano Mask with Fire Helmet attachment. In Blue Fabric Bag.		
17 525 39-20	4BA 20m with Leather Harness, Pano Mask. In Blue fabric Bag.		
17 525 50-20	4BA 20m with Leather Harness, Pano Mask with Speech Diaphragm and Fire Helmet attachment. In Blue Fabric Bag.		
17 525 51-20	4BA 20m with Leather Harness, Cosmo Mask. In Blue fabric Bag.		
17 525 66-20	4BA 20m with Leather Harness, Yellow Silicone Pano Mask with Speech Diaphragm. In Blue Fabric Bag.		

Air terminal (mandatory for the 4BA 20m)

Ref:	Description
17 540 09	Air terminal with battery
17 540 07	Air terminal without battery
17 540 90	6V battery

Shotblasting helmets (supplied air) helmets with air supply

Proven solutions for users, suitable for harsh environments.

COMMANDER

Honeywell NORTH

THE SAFETY AND COMFORT SOLUTION FOR BLASTING

- **Rubber coating:** to reduce noise and wear.
- **Offers the user high-level protection:** with its comfortable pressure.
- **Flowmeter:** with indicator for increased safety.
- **Shoulder, back and chest protection:** with its cape.
- **Disposable visor:** protecting the main visor.
- **Mesh screen.**
- **Adjustable headband:** for added comfort.
- **All parts easily replaceable:** for example the rubber gaskets at the visor.
- **Cape available in two versions:** leather or waterproof bisonyl for chemical hazards.

Areas of use

- **Shotblasting**

Commander

VORTEX AIR FED SYSTEM

The Vortex is an Air fed system that enables workers wearing Supplied air systems to feel comfortable in both hot or cold working conditions using only one device.
The Vortex uses breathable compressed air to reach temperature ranges of approx +/- 20°C cooler or warmer than the inlet air temperature.

Technical description

The Commander helmet	Focused field of view (145mm x 90mm or or 5.7 x 3.54"). No distraction in the visual field. Polyester reinforced with fiberglass, rubber coating
Weight of the Commander	2000g (including hose and regulator)
Cape	Cotton, leather or bisonyl coating
Standard	EN 14594 Class 4B
Alarm trigger	At a rate lower or equal to 140l or 37 US gal/min
Connections	CEJN

Vortex air fed system

Ref:	Description	Visor	NPF	APF
A133130-00	Commander shotblasting earmuffs with leather cape	145mm or 5.7" x 90mm or 3.54"	2000	40
A133230-00	Commander shotblasting helmet with bisonyl cape	145mm or 5.7" x 90mm or 3.54"	2000	40
A133730-00	Commander shotblasting helmet with cotton cape	145mm or 5.7" x 90mm or 4.33"	2000	40
A133235-00	Commander Shotblast Helmet with vortex, a Bisonyl Cape, coupling and Belt		2000	40
A133135-00	Commander Shotblast Helmet with vortex, a Leather Cape, coupling and Belt		2000	40
A133735-00	Commander Shotblast Helmet with vortex, a Cotton Jacket, coupling and Belt		2000	40
A160123	Mesh screen - 50 pcs	-	-	-
A160761-25	Glass screen - 25 pcs	-	-	-
A160722	Polyester screen - 50 pcs	-	-	-
A001979	Commander screen	-	-	-
A161253	10m Heavy duty airline hose, with CEJN connections			
A161254	20m Heavy duty airline hose, with CEJN connections			
A161255	40m Heavy duty airline hose, with CEJN connections			

For our full range of parts and accessories, please contact us.

Open-circuit breathing apparatuses

Honeywell Industrial Safety offers several Open-Circuit Self-Contained Breathing Apparatus (SCBA) which are suitable for many types of applications in toxic or oxygen-depleted environments.

These devices are equipped with a high/medium pressure (HP/MP) reducer a full-face mask, a positive pressure demand valve and an end of operation alarm whistle integrated in the handle of the high pressure gauge.

Aeris Confort Type 2 Aeris Phase 2 and X-Pro units are comfortable and durable, fulfilling the requirements of the Type 2 classification of the EN 137 standard.

AERIS CONFORT TYPE 2

Comfortable, durable and efficient, it will protect you regardless of the industry and types of applications.

- Non-metallic back plate, ergonomic, flexible.
- Cushions on the straps and belts, straps and harness made of self-extinguishing aramid material.
- Perfect weight distribution of the apparatus on the hips.
- Panoramasque full-face mask.
- Compatible with both quick click positive pressure demand valve:
  - Sx-Pro activation by first breath.
  - Zenith automatic activation.

Technical description

Total weight of the complete apparatus without air cylinder	4.10kg or 9lbs
Temperature approval	-30°C/+60°C or -86°F/140°F
Apparatus approvals	EN 137: 2006 Type 2, SOLAS ⚙, MED, IMO, MSC
Full-face mask approval	EN 136 Class III

Ref:	Name
18 232 31	Aeris Confort Type 2 with Zenith demand valve and Panoramasque full-face mask with five-point straps. Without air cylinder
18 232 22	Aeris Confort Type 2 with SX-Pro demand valve and Panoramasque full-face mask with five-point straps. Without air cylinder
18 225 52	6L or 1,58 US gal 300 bar or 4,351 PSI steel air cylinder (empty*)
18 196 61	6,9L or 1,82 US gal 300 bar or 4,351 PSI composite (20 years) air cylinder (empty*)

** Can be filled upon request - Other configurations available upon request*

AERIS PHASE 2

Comfortable, ergonomic and adaptable, the Aeris Phase 2 has been specially designed to meet extreme requirements.

- Non-metallic back plate, ergonomic, flexible.
- Thermo-compressed cushions on the straps, waist and upper back.
- Curved straps, specially designed for optimum support of the apparatus on the shoulders, regardless of the position or movements of the user.
- Perfect weight distribution of the apparatus on the hips.
- Thermo-compressed harness and self-extinguishing straps made of aramid.
- Multiple anchor points for the addition of accessories.
- Opti-Pro or Panoramasque full-face mask.
- SX-Pro positive pressure demand valve with quick release and activation by the first breath.
- Zenith positive pressure demand valve with quick release and automatic activation.

Technical description

Total weight of the complete apparatus without air cylinder	4.55kg or 10 lbs
Temperature approval	-30°C/+60°C or -86°F/140°F
Apparatus approvals	EN 137: 2006 Type 2, SOLAS ⚙, MED, IMO, MSC
Full-face mask approval	EN 136 Class III

Ref:	Name
18 222 54	Aeris Phase 2 with Zenith demand valve and Panoramasque full-face mask with five-point straps. Without air cylinder.
18 225 52	6L or 1,58 US gal 300 bar or 4,351 PSI steel air cylinder (empty*)
18 196 61	6,9L or 1,82 US gal 300 bar or 4,351 PSI composite (20 years) air cylinder (empty*)

** Can be filled upon request - Other configurations available upon request. Medium pressure quick coupling version available.*

Open-circuit breathing apparatus

X-PRO

The materials of the X-Pro combine comfort and high performance. Resistant to harsh carriage return environments such as extreme temperatures or chemical splashes, unsurpassed endurance and long life is guaranteed.

- Ultralight back plate, made from anti-static polymer resin.
- Adjustment system:
- A single operation for two positions of height adjustment.
- Pivot built in to adapt apparatus to all user movements.
- Movable and foldable foot protecting the cylinder and the high pressure system from impacts.
- HP and MP hoses integrated into the back plate for maximum safety.
- Thermo-compressed cushions on the straps, waist and upper back.
- Curved straps, specially designed for optimum support of the apparatus on the shoulders, regardless of the position or movements of the user.
- Multiple anchor points for accessories and quick release buckles.
- Opti-Pro full-face mask.
- SX-Pro positive pressure demand valve with quick release and activation by the first breath.

Technical description

Total weight of the complete apparatus without air cylinder	3.90kg or 8.6 lbs
Temperature approval	-30°C/+60°C or -86°F/140°F
Apparatus approvals	EN 137: 2006 type 2, SOLAS ⚙, MED, IMO, MSC, AS/NZS 1716:2012
Full-face mask approval	EN 136 Class III

Ref:	Name
18 221 20	X-Pro with SX-Pro demand valve and Opti-Pro full face mask with five-points straps. Without air cylinder.
18 225 52	6L or 1,58 US gal 300 bar or 4,351 PSI steel air cylinder (empty*)
18 196 61	6,9L or 1,82 US gal 300 bar or 4,351 PSI composite (20 years) air cylinder (empty*)

** Can be filled upon request.*

Other configurations available upon request.
Electronic manometer version available.
Medium pressure quick coupling version available.

Air supply apparatus

The Bioline and B.A.S. are compressed air breathing apparatus sets. Supplied by an external air supply, the user is able to perform maintenance and long duration work in excellent respiratory comfort and safety conditions. The B.A.S. version also allows the user to be able to evacuate safely in the event of a problem, thanks to its back-up air cylinder.

BIOLINE

Very light, it is secured to the belt and does not interfere with the users during their work.

- Quick and easy set up.
- Supply hose attached to the belt: the mask can not be accidentally pulled off by traction on the hose.
- Connects at an average pressure of about 7 bar or 101 PSI ensuring compatibility with most breathing air supply networks (air trolley, air network, filter units, etc.).
- Panoramasque full-face mask.
- Zenith quick click positive pressure demand valve and automatic activation.

Technical description

Total weight of a Bioline	1.9kg or 4.2 lbs
Temperature approval	-30 °C/+60 °C
Apparatus approvals	EN14593-1
Full-face mask approval	EN 136 Class III

Ref:	Name
18 160 43	Bioline waistbelt with Zenith demand valve and Panoramasque full-face mask with five-point straps. With CEJN connectors
18 160 69	Bioline waistbelt with Zenith demand valve and Panoramasque full-face mask with five-point straps. With Staubli connectors

Other configurations available upon request

B.A.S.

A lightweight solution, it is secured to the belt with the cylinder situated on the thigh, thus making it easy for users to wear whilst working.

- An automatic switching system from the air supply network to back-up air cylinder, with a cylinder engagement alarm whistle and a second alarm whistle to indicate end of cylinder operation.
- High and medium (MP/HP) pressure regulator with safety valve.
- Integrated gauge in the cylinder valve.
- A bag that is fixed along the thigh contains the 3L 200 bar/0.7 US gal 2,900 PSI air cylinder.

Technical description

Total weight of a B.A.S.	3.50 Kg or 7.7 lbs
Temperature approval	-15°C/+60°C or 5°F/140°F
Apparatus approvals	EN 139 & EN 402
Full-face mask approval	EN 136 Class III

Ref:	Name
18 161 30	B.A.S. with Zenith demand valve and Panoramasque face mask with 5-point straps and Staubli connection . Without air cylinder
18 225 59	3L 200 bar / 0.7 US gal 2.900 PSI steel air cylinder (empty*), with integrated gauge - 15 minutes

**Can be filled upon request*
Other configurations available upon request

Air supply apparatuses

MOBILE AIRLINE TROLLEY UNIT

This mobile trolley allows users a supply of breathable compressed air, regardless of the type of work in confined spaces or during long-term maintenance. It adapts to the various respiratory needs of the user depending on the amount of effort being exerted.

- Two reels of 25 meters/82 feet allowing two users to work separately. It can also be connected to obtain a 50 meter/164 feet hose for the air supply of a Single-user.
- The reel hoses are shielded to prevent crushing, bending or abrasion of the hose and to resist chemicals such as hydrocarbons.
- The cylinders can be replaced during use thereby increasing the duration of use.
- The safety system prevents air transfer between the cylinders.
- Adapts to different air cylinder volumes.
- Storage case built into the trolley.

Technical description

Dimensions (W x H x D)	510 x 1170 x 780mm/20.08 x 46.06 x 30.07"
Maximum weight when empty	50kg or 110.2 lbs

Ref:	Name
18 239 83	Trolley 2-cylinder version with Staubli connector, 2 users, 2 x 25 m/82 feet hoses with reel, with storage case. Without air cylinder
18 240 92	Trolley 4-cylinder version with CEJN connector, 2 users, 2 x 25m/82 feet hoses with reel, with storage case. Without air cylinder
18 225 52	6L or 1,58 US gal 300 bar or 4,351 PSI steel air cylinder (empty*)
18 196 61	6,9L or 1,82 US gal 300 bar or 4,351 PSI composite (20 years) air cylinder (empty*)

**Can be filled upon request*
Other configurations available upon request

Evacuation

BIO-S-CAPE

The Bio-S-Cape is an Emergency Escape Breathing Device (EEBD) , with 15 minutes duration. As it is easy to put on it can provide immediate relief in evacuation scenarios, such as toxic or low oxygen level environments. The Bio-S-Cape complies with the EN1146:2005 standard, the SOLAS convention and ISO 23269-1:2008 standard

- Regulator triggered automatically upon opening of the bag.
- Automatic positioning of the hood thanks to the inflatable air cushion behind the user's neck.»
- Non-metallic end of duration alarm whistle.
- High visibility hood, large, adaptable to all face shapes and all types of facial hair, resistant to moisture, chemical environments and extreme temperatures.
- Fully airtight, comfortable and tear-resistant neck seal due to a double anti-tear layer.
- Overpressure maintained inside the hood eliminates any risk of the ingress of toxic gases.
- Permanent visibility of the gauge: easy pressure control during storage and during evacuation.
- Salt accumulation reduction system
- Label positioned along the axis of the bag for a better visibility and to avoid accidental removal.
- Dark inner surface to the hood, ideal in sunny or maritime environments with lots of brightness and the Sun's glare.

Technical description

Dimensions with 3L 200 bar/0.7 US gal 2,900 PSI air cylinder (L x W x D)	500 x 160 x 180mm/19.7 x 6.3 x 7.1"
Total weight of the apparatus with 3L 200 bar/0.7 US gal 2.900 PSI steel air cylinder	5.36kg or 11.8lbs
Total weight of the apparatus with 3L 200 bar/0.7 US gal 2.900 PSI composite air cylinder	3.58kg or 7.9lbs
Duration	15 minutes
Temperature approval	-15°C/+60°C or 5°F/140°F
Apparatus approvals	EN1146:2005, ISO 23269-1:2008, SOLAS ⚙, MSC, MED, IMO.

Ref:	Name
18 157 32	Bio-S-Cape with 3L 200 bar /0.7 US gal 2,900 PSI steel air cylinder (empty*) - 15 minutes
18 157 46	Bio-S-Cape with 3L 200 bar /0.7 US gal 2,900 PSI composite air cylinder (empty*) - 15 minutes
18 157 44	Wall mounted storage box for Bio-S-Cape

** Can be filled upon request - Other configurations available upon request (10 minutes version available).*

AERIS MINI

The Aeris Mini is designed for evacuation from a toxic or oxygen-depleted atmosphere. Lightweight, comfortable and easy to put on, the Aeris Mini ensures a safe respiratory protection for the user.

- Light, it it provides the best possible duration/size ratio.
- Compact, it allows great freedom of movement.
- End of supply alarm whistle.
- Integrated gauge in the cylinder valve.
- Instant access to the full-face mask.
- Panoramasque full full-face mask.
- Positive pressure demand valve Sx-Pro with quick release and activation by the first breath.

Technical description

Dimensions with 3L 200 bar/0.7 US gal 2,900 PSI air cylinder (L x H x D)	480 x 225 x 260mm/19.7 x 5.9 x 5.9"
Total weight of the apparatus with 3L 200 bar/0.7 US gal 2,900 PSI steel air cylinder	5.5kg or 12.1 lbs
Duration	15 minutes
Temperature approval	-15°C/+60°C or 5°F/140°F
Apparatus approval	EN 402
Full-face mask approval	EN 136 Class III

Ref:	Name
18 153 57	Aeris Mini Sx-Pro demand valve and Panoramasque full-face mask with 5-point head strap. Without air cylinder
18 153 74	Aeris Mini with Sx-Pro demand valve and Panoramasque full mask with five-point straps with 3L 200 bar/0.7 US gal 2,900 PSI air cylinder (empty), with integrated gauge - 15 minutes
18 225 59	3L 200 bar/0.7 US gal 2,900 PSI air cylinder (empty), with integrated gauge - 15 minutes

**Can be filled upon request - Other configurations available upon request*

Chemical oxygen self rescuer

OXY-PRO

The Oxy-Pro is a closed circuit evacuation apparatus with a long service time, working from potassium superoxide (KO_2) it regenerates the exhaled air. In compliance with EN 13794, it is recommended for emergency evacuation in hazardous environments, such as water treatment and work in confined spaces.

- Permanent control vacuum gauge, ensuring maximum user safety.
- Respiratory protection as soon as the apparatus is donned: a compressed oxygen cylinder starter minimizes the risk of inhaling toxic gases by the user.
- Compact and lightweight: optimized comfort for extended wear.
- Antistatic 6 liters/1.5 US gal breathing bag ensuring optimal breathing comfort during the evacuation.
- Worn on a belt, it offers complete freedom of movement: once deployed, the housing remains attached to the belt to help keep the breathing bag in place during use.
- Housing opening system, designed for a quick and simple use of the apparatus.
- Rechargeable training devices available.

Technical description

Dimensions (W x H x D)	200 x 208 x 108mm/19.7 x 5.9 x 5.9"
Total weight of the apparatus	2.3kg or 5 lbs
Duration	30 minutes at 35 l/min
Lifetime of the apparatus	Up to 10 years with a minimum maintenance
Apparatus approvals	EN 13794 – Class K 30-S type

Ref:	Name
19 193 15	Oxy-Pro, without waist belt with goggles
19 105 65	Oxy-Pro waist belt
19 188 43	Oxy-Pro training (rechargeable), without waist belt with goggles

Other configurations available upon request

Full-face masks

Honeywell Industrial Safety offers a full range of face masks designed to meet all needs, from industry to firefighting. Compatible with our entire range of SCBAs, they combine breathing and visual comfort, a perfect seal on all face types, and provide high level chemical and thermal resistance.

OPTI-PRO

The Opti-Pro is a full-face mask with a very modern design, providing an extremely wide field of vision and optimal comfort due to the silicone face piece which ensure a perfect seal.

- Lens specially designed to facilitate downward and side vision.
- Impact-resistant polycarbonate lens with anti-scratch coating.
- Facepiece, body and high quality silicone inner half-mask.
- Assembly and disassembly for cleaning requires no tools.
- The «Air-Klick» system allows the user to click valves easily into place.
- Positive pressure mask.

Technical description

Total weight	705g/25 ounces
Full-face mask approval	EN136 – Class III

Ref:	Name
17 150 12	Opti-Pro full-face mask five-point straps, M size version

Other sizes (S, L) available upon request.
Other configurations available upon request.

PANORAMASQUE

The Panoramasque is a full-face mask which offers a very large field of view without optical distortion, providing a seal and smooth operation under all conditions and for all types of application

- Ergonomic design that fits all types of faces, one size fits all.
- The face piece, the inner half mask and body are made of high performance EPDM (Special Polymer).
- Large panoramic field of view, without any optical distortion.
- Polycarbonate lens, anti-scratch treatment.
- The «Air-Klick» system allows the user to click valves easily into place.
- Positive pressure mask.

Technical description

Total weight	585g/21 ounces
Full-face mask approval	EN136 – Class III

Ref:	Name
17 106 50	Panoramasque full-face mask five-point straps, universal size

Other configurations available upon request

Protective gloves

Hand protection with a perfect fit

Protective gloves

Your hands deserve expert gloves

Combining comfort, protection and ergonomics for user safety, designing gloves suited for all uses in a work environment demonstrates our commitment towards maximum user safety. With solid experience in industrial risk, **Honeywell Industrial Safety** designs and manufactures all of its gloves with the aim of guaranteeing comfort, safety and suitability in the workplace. Our business know-how at each stage of production ensures a uniform level of quality. Furthermore, close relationships have been entered into with large industry companies (automotive, agri-food, glass, foundry, metallurgy, etc.)

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General handling p. 162

Cut protection p. 187

Heat protection p. 203

Cold protection p. 216

Chemical protection p. 220

Gloves box p. 234

Electrical protection p. 240

Metal mesh protection p. 244

A LARGE RANGE SUITED TO ALL SITUATIONS AND ALL PROFESSIONAL ENVIRONMENTS:

CUT/SEWN GLOVES

The natural qualities of leather has made cut/sewn gloves the ideal glove for protection. Its qualities of comfort, longevity and its high mechanical resistance performances are now optimised by specific chemical treatments applied to the skin.

KNITTED AND SOAKED GLOVES

Due to the high level of comfort and the exceptional dexterity, seamless knitted gloves have become the product of choice in many industries. Depending on the properties required, natural fibres, such as cotton, can be used for its comfort and its ability to absorb humidity, or synthetic fibres, such as polyamide or polyester, for their resistance and even high performance fibres.

CHEMICAL PROTECTION GLOVES

Chemical protection gloves, whether protected via direct soaking from porcelain vehicles or through soaking on supports, are synonymous with extreme performance in terms of resistance against the most diverse risks.

The choice and combination of raw materials during manufacturing is essential to ensure the expected results:

- **Natural Latex:** excellent resistance to aqueous chemical products
- **Néoprène:** resists diluted acids and petroleum products
- **NBR (Nitrile Butadien Rubber):** excellent resistance to petroleum products and solvents as well as to perforation
- **PVC:** very high abrasion resistance
- **Butyl:** good resistance to ethers and ketones

FOR TECHNICAL QUESTIONS AND ORDERS ABOUT KCL GLOVES, PLEASE CONTACT KCL CUSTOMER SERVICE :

KCL GmbH
Industriepark Rhoen - Am Kreuzacker 9
D-36124 Eichenzell - Germany
Phone: +49 (0) 665 987 300
Fax: +49 (0) 665 987 155
Email: sales@kcl.de
www.kcl.de

Honeywell

STANDARDS & LEGISLATION

The new EU directives concerning personal protective equipment aims to harmonise member state legislation and to establish new conditions with which products and their users must comply. European standards define the technical characteristics required to meet these new requirements.

Directive 89/656/EEC decrees the requirements which employers must implement for the supply and use of PPE destined for their employees.

Directive 89/686/EEC decrees the essential requirements to be able to sell protective gloves on the European market.

EC CATEGORIES: DIRECTIVE 89/686

Categories	Risk levels	Technical dossier	Notes for usage	Auto-certification	EC exam type	Production verification due	Labelling
I	Minor	X	X	X			CE
I I	Intermediate	X	X		X		CE
I I I	Irreversible	X	X		X	X	CE *0062

All **Honeywell** products comply with standard EN 420. This standard prescribes general criteria concerning comfort (size and dexterity), labelling and innocuousness (chrome content and pH levels).

*Certification body number

Standards & Risks

EUROPEAN PICTOGRAMS– MAIN STANDARDS

The gloves are approved for a specific use and meet the following standards:

EN 388

GLOVES			LEVELS OF PERFORMANCE				
EN 388 Mechanical risks			**1**	**2**	**3**	**4**	**5**
C	Resistance to abrasion	in number of cycles	≥ 100"	≥ 500"	≥ 2000"	≥ 8000"	-
B	Cut resistance (slicing)	index	> 1.2	> 2.5	> 5.0	> 10.0	> 20.0
C	Tear resistance	in newtons	≥ 10"	≥ 25"	≥ 50"	≥ 75"	-
C	Perforation resistance	in newtons	≥ 20"	≥ 60"	≥ 100"	≥ 150"	-
X	Not tested						

0: result obtained inferior to that of the minimum required for level 1

EN 388

EN 388 Risks of impact cut

Impact cut test by metallic blade weighing 1050g dropped from a height of 150mm.

EN 511

EN 511 Protection against the cold			1	2	3	4	5
A	Resistance to convective cold	thermal insulation in m2, °C/W	≥ 0.10	≥ 0.15	≥ 0.22	≥ 0.30	-
B	Resistance to (cold) contact	thermal resistance in m2, °C/W	≥ 0.025	≥ 0.050	≥ 0.100	≥ 0.150	-
C	Permeability to water - Level 1 Impermeable to a minimum of 30mm						
X	Not tested for this danger						

EN 407

EN 407 Heat and/or fire			1	2	3	4	5
A	Behaviour and/or fire	duration of flame persistence	≤ 20"	≤ 10"	≤ 3"	≤ 2"	-
B	Resistance to heat contact	> 15 seconds at	100 °C	250 °C	350 °C	500 °C	-
C	Resistance to convective heat	heat transmission	≥ 4"	≥ 7"	≥ 10"	≥ 18"	-
D	Resistance to radiant heat	heat transmission	≥ 5"	≥ 30"	≥ 90"	≤ 150"	
E	Resistance to small splashes of liquid metal	numbers of drops necessary to obtain an increase in temperature of 40°C	≥ 5	≥ 15	≥ 25	≥ 35	-
F	Resistance to large splashes of molten metal	weight of iron (grams) required to cause a superficial burn	≥ 30	≥ 60	≥ 120	≥ 200	-
X	Not tested for this danger						

EN 374

EN 374

EN 374 Chemical risk

Three distinct pictograms indicate two levels of requirements.

Standard EN 374-2 characterises impermeable properties without involving resistance. This includes gloves in all risk categories. The current standard specifies a method for testing the protective gloves' resistance to penetration of chemical products and/or micro-organisms.

Standard EN 374-3 requires impermeable properties in accordance with EN 374-2 and resistance performance at level 2 at a minimum concerning permeation for at least three products on the list of twelve defined in standard EN 374-1.

EN 374-3

EN 374-3 Lists of products tested	LETTER	PRODUCT CHEMICAL	NUMBER CASE	CLASS
	A	Methanol	67-56-1	Primary alcohol
	B	Acetone	67-64-1	Cetone
	C	Acetonitrile	75-05-8	Nitrile
	D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
	E	Carbon disulphide	75-15-0	Sulphur-containing organic compounds
	F	Toluene	108-88-3	Aromatic hydrocarbon
	G	Diethylamine	109-89-7	Amine
	H	Tetrahydrofuran	109-99-9	Heterocyclic ether
	I	Ethyl acetate	141-78-6	Ester
	J	N-heptane	142-85-5	Saturated hydrocarbon
	K	40% Sodium hydroxide	1310-73-2	Inorganic base
	L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid

Permeation times

Performance level	0	1	2	3	4	5	6
Minutes	<10	≥10	≥30	≥60	≥120	≥240	≥480

EN 1082

EN 1082 Protection against cuts and knife nicks

Gloves and forearm protection against cuts and knife nicks.
They are tested at a power of 2.45 joules (falling weight of 1000g at a height of 250mm).

EN 13998

EN 13998 Protection against cuts and knife nicks

ChainexOne are tested at a power of 2.45 joules. Level 1: Falling weight of 1000g dropped from a height of 250mm.

EN 13998

EN 13998 Protection against cuts and knife nicks

ChainexTwo, ChainexLite and Lamex are tested at a power of 4.90 joules (level 2) (Falling weight of 1kg at a height of 0.50m).
Level 2: falling weight of 1000g at a height of 500mm

Check & Go Range

The right cut protection level is in your hands!

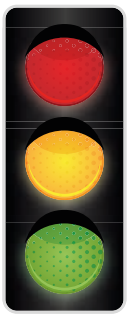
Today, Honeywell Industrial Safety offers its customers a new concept that will make their life much easier, immediately provides safety managers and their teams with visual recognition of the cut protection level. Choosing and recognizing instantly from a distance the proper level of protection are two of the most critical factors in protecting against cut risks. Don't talk, just look.

With Check & Go identify at one glance the cut protection level… Even from long distance

Honeywell cut control gloves

The perfect system for managing cut hazard. Eliminates confusion where colour alone is relied upon, providing confidence and control without the risk.

- Number and colour combination guarantees the right protection level
- Easy visual check ensures the correct glove is being worn
- Dexterous and flexible handling combined with superb cut resistance



Level 1:
LOWER CUT PROTECTION

Level 3:
INTERMEDIATE CUT PROTECTION

Level 5:
HIGHER CUT PROTECTION

Enhanced lifespan

The 3-colours coding will remain visible for safety managers and workers even after the gloves have been used and washed many times.

VISUAL recognition LEVEL

Easy visual recognition

BY COLOUR
The colours red, orange and green are internationally recognised and understood in our daily lives.

BY NUMBER
Honeywell is the first to associate the EN388 cut performance number, in an easily readable format with the colour code recognition system.

At Honeywell, we are merging two of our best technologies (Honeywell Spectra® fibre and our expertise in cut-resistant gloves) to deliver best performance safety to industrial workers.

Honeywell employs technologists with decades of fibre and composite experience with excellent track records in innovation. **Spectra® fibre** is a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world.

Our industrial cut-resistant gloves are now reinforced with the Honeywell Spectra® fibre, most commonly used in fishing line and rope, bullet-resistant armor for US and European militaries and law enforcement.

Honeywell technologies from fibre development to glove manufacturing and end-to-end production quality control mean you can trust our gloves to provide your workers the protection, comfort, and durability they need.

Indeed our previous cut resistant range protecting against mechanical hasards, level 3 and 5, is moving to a new generation of premium and light weight gloves that is now called **Vertigo range.**

This new complete range available in white liner and black liner polyurethane and nitrile coating benefit from **our cut control system called Check and Go** thanks to the number printed on the top of each glove that indicate the cut protection level.

General handling

General Handling

Vertigo cut resistant range with Spectra® fibre benefiting from the Check & Go cut control system.

Impact Hasards

Only cut protection number 3 is with Spectra® fibre

The right alternative to leather gloves

This entire range is with HPPE fibre

VERTIGO GREY C&G RANGE

VERTIGO BLACK C&G RANGE

CHECK & GO ORIGINAL

SKELETON C&G RANGE

DEEPTRIL C&G RANGE

General handling

Vertigo Grey C&G range

New

RECOMMENDATIONS

- Specially developed for workers handling white goods manufacturing, electronic.

ADVANTAGES

- Level 3 and 5 are made with the Spectra® fibre from Honeywell, a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world.
  Coating available in polyurethane (dry environment) and nitrile (wet and greasy environment) coating.

Vertigo Grey PU C&G 3*

Ref. 23 187 67

*Long version : 23 187 70

Vertigo Grey PU C&G 5

Ref. 23 187 68

Vertigo White PU C&G 3

Ref. 23 187 69

Vertigo Grey PU Long C&G 5

Ref. 23 187 71

Vertigo Grey First PU C&G 3

Ref. 23 187 65

Vertigo Grey First NIT C&G 3

Ref. 23 187 66

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
23 187 67	Vertigo Grey PU C&G 3	Knitted lightweight Spectra®/Lycra®. Grey polyurethane coating	7 to 11	4342
23 187 68	Vertigo Grey PU C&G 5	Knitted lightweight Spectra®/polyamide. Grey polyurethane coating	7 to 11	4543
23 187 69	Vertigo White PU C&G 3	Knitted lightweight Spectra®/Lycra®. White polyurethane coating	7 to 11	4342
23 187 70	Vertigo Grey PU Long C&G 3	Knitted lightweight Spectra®/Lycra®. Grey polyurethane coating. Wrist 11cm	7 to 11	4342
23 187 71	Vertigo Grey PU Long C&G 5	Knitted lightweight Spectra®/Lycra® / Outside glass fibre. Grey polyurethane coating. Wrist 11cm	7 to 11	4542
23 187 65	Vertigo Grey First PU C&G 3	Grey First Knitted lightweight Spectra®/Lycra®, composite wrist. Grey polyurethane coating	7 to 11	4342
23 187 66	Vertigo Grey First NIT C&G 3	Grey First Knitted lightweight Spectra®/Lycra®, composite wrist. Grey nitrile coating	7 to 11	4342

Vertigo Black C&G Range

New

RECOMMENDATIONS

- Specially developed for workers handling in dirty environment.

ADVANTAGES

- Level 3 and 5 are made with the Spectra® fibre from Honeywell, a high-performance-polyethylene (HPPE) fibre, one of the strongest and lightest manmade fibres in the world.
- Black coating well appreciated in dirty environment.
- Available in polyurethane (dry environment) and nitrile (wet and greasy environment) coating.

Vertigo Black C&G 1

Ref. 21 322 51 / 22 322 70

Vertigo Black C&G 3

Ref. 23 422 42 / 23 425 52

Vertigo Black C&G 5

Ref. 23 425 45 / 23 425 55

Check & Go Original Range

New

RECOMMENDATIONS

- Specially developed for workers handling : white goods manufacturing, electronic

ADVANTAGES

- The palm & fingers coating is also in colour for an easier visual recognition of the cut protection level.

Check & Go 1

Ref. 23 322 55 / 23 322 65

CE EN 420

Check & Go 3

Ref. 23 322 42 / 23 325 52

Check & Go 5

Ref. 23 325 45 / 23 325 55

EN 388

Ref.	Name	Characteristics	Sizes	Standards
21 322 51	Vertigo Black PU C&G 1	Knitted extremely lightweight black polyamide. Black polyurethane coating	7 to 11	4131
22 322 70	Vertigo Black NIT C&G 1	Knitted extremely lightweight black polyamide. Black nitrile coating	7 to 11	4121
23 422 42	Vertigo Black PU C&G 3	Knitted lightweight Polyamide/ Spectra® fibre/Elastan. Black polyurethane coating	7 to 11	4342
23 425 52	Vertigo Black NIT C&G 3	Knitted lightweight Polyamide/ Spectra® fibre/Elastan. Black nitrile coating	7 to 11	4343
23 425 45	Vertigo Black PU C&G 5	Knitted lightweight Polyamide/ Spectra® fibre/Elastan. Glass outside Black polyurethane coating	7 to 11	4543
23 425 55	Vertigo Black NIT C&G 5	Knitted lightweight Polyamide/ Spectra® fibre/Elastan. Glass outside Black nitrile coating	7 to 11	4543
23 322 55	Check & Go PU 1	Knitted extremely lightweight white polyamide. Red polyurethane coating	7 to 11	4131
23 322 65	Check & Go NIT 1	Knitted extremely lightweight white polyamide. Red nitrile coating	7 to 11	4121
23 322 42	Check & Go PU 3	Knitted lightweight Polyamide/HPPE fibre/Elastan. Orange polyurethane coating	7 to 11	4342
23 325 52	Check & Go NIT 3	Knitted lightweight Polyamide/HPPE fibre/Elastan. Orange nitrile coating	7 to 11	4343
23 325 45	Check & Go PU 5	Knitted lightweight Polyamide/HPPE fibre/Elastan / Outside glass fibre. Green polyurethane coating	7 to 11	4543
23 325 55	Check & Go NIT 5	Knitted lightweight Polyamide/HPPE fibre/Elastan / Outside glass fibre. Green nitrile coating	7 to 11	4543

*Check & Go

«Items not for sale in the UK»

Skeleton C&G* Range

New

RECOMMENDATIONS

- For jobs where workers face hazardous impact risks to the hands.

ADVANTAGES

- Nitrile foam provides outstanding grip in wet environments and good abrasion resistance.
- Rubber reinforcement provides protection from impact hazards to the hands.
- The inside is knitted, dipped and sewn in one piece for increased comfort and dexterity.

Skeleton C&G 1

Ref. 23 322 71

Skeleton C&G 3

Ref. 23 322 75

Skeleton C&G 5

Ref. 23 325 24

DeepTril C&G* Range

New

RECOMMENDATIONS

- For users in construction and industry that need a general purpose work glove.

ADVANTAGES

- Nitrile foam has excellent abrasion benefits for longer glove life and greater grip in wet/oily conditions.
- Full-hand, Nitrile foam coating provides splash protection from liquids, caustics and animal fats.
- Seamless, thin gauge, nylon liner is cool and treated to help minimize bacteria and odor.

DeepTril C&G 1

Ref. 22 994 00

DeepTril C&G 3

Ref. 22 994 03

DeepTril C&G 5

Ref. 22 994 05

CE EN 420

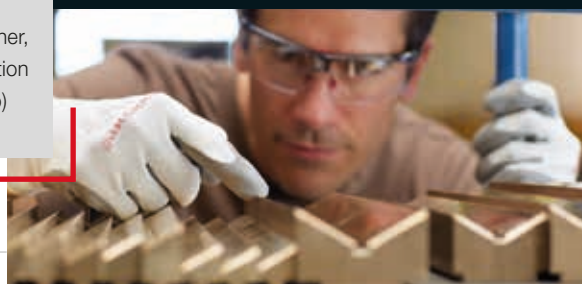
EN 388

Ref.	Name	Characteristics	Sizes	Standards
22 994 00	DeepTril C&G 1	Fully dipped. Black polyester liner. Black nitrile foam coating	7 to 11	4121
22 994 03	DeepTril C&G 3	Fully dipped. Polyamide/HPPE fibre liner. Black nitrile foam coating	7 to 11	4343
22 994 05	DeepTril C&G 5	Fully dipped. Polyamide/HPPE fibre liner. Black nitrile foam coating	7 to 11	4542
23 322 71	Skeleton NIT C&G 1	Knitted liner - Gauge 13 - Yellow Hi-viz, polyester, black nitrile foam coating sandy finish. Reinforcement pad sewn on back, fingers and palm of the hand.	7 to 11	3122
23 322 75	Skeleton NIT C&G 3	Knitted liner - Gauge 13 - HPPE Spectra fibre/Elastan, black coating nitrile foam. Reinforcement pad sewn on back, fingers of the hand.	7 to 11	4343
23 325 24	Skeleton NIT C&G 5	Knitted liner - Gauge 13 - Para-aramide, composite fibre, polyamide, black coating nitrile foam. Reinforcement pad sewn on back, fingers of the hand.	7 to 11	4542

*Check & Go

General handling

Our protective gloves for general handling are manufactured from diverse materials (nylon, leather, cotton) and with different coatings (nitrile, PU, Latex). These combinations allow for maximum protection against mechanical risks (abrasion, tears, punctures) in various environments (oily, greasy, dry, damp)



RECOMMENDATIONS

- Fine handling in a dry, lightly greasy or dirty environment.

APPLICATIONS

- Assembly and electrical components (semi-conductors, microprocessors).
- Mounting and assembly of mechanical items in the automotive industry and in subcontracting.
- Packaging, presentation, separation of small items.

ADVANTAGES

- Excellent dexterity.
- Certified "silicone free" to allow for use in a paintwork environment.

Perfect Poly® Grey

Ref. 24 002 50

Perfect Poly® Black

Ref. 24 002 51

Perfect Poly® Skin

Ref. 24 002 60

Perfect Poly® Finger

Ref. 22 322 40

Perfect Poly®

Ref. 22 322 55

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
24 002 51	Perfect Poly® Black	Knitted extremely lightweight black polyamide. Grey polyurethane coating	6 to 11	4121
24 002 60	Perfect Poly® Skin	Knitted extremely lightweight blue polyamide. Grey polyurethane coating	7 to 10	3111
22 322 40	Perfect Poly® Finger	Knitted extremely lightweight white polyamide. Polyurethane coating on fingertips	6 to 10	Minor risks
24 002 50	Perfect Poly® Grey	Knitted extremely lightweight grey polyamide. Grey polyurethane coating	6 to 11	4121
22 322 55	Perfect Poly®	Knitted extremely lightweight white polyamide. White polyurethane coating	6 to 11	4131

General handling

Nylon / PU

RECOMMENDATIONS

- Fine handling in a dry environment.

APPLICATIONS

- Assembly and electrical components (semi-conductors, microprocessors).
- Separation of small items (household appliances, automotive industry, nuts and bolts).
- Electronic.

ADVANTAGES

- Exceptional dexterity and breathability.
- Without silicone.

Perfect Poly®

PU 1st Grey

Ref. 21 002 50

PU 1st Grey Long

Ref. 21 000 52

PU 1st White

Ref. 21 322 55

Workeasy Black PU

Ref. 21 002 51

Workeasy Liner White

Ref. 21 322 00

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
21 002 50	PU 1st Grey	Knitted lightweight grey polyamide. Grey polyurethane coating	6 to 11	4131
21 000 52	PU 1st Grey Long	Knitted lightweight grey polyamide. Grey polyurethane coating. Length: 30cm	6 to 11	4131
21 322 55	PU 1st White	Knitted lightweight white polyamide. White polyurethane coating	6 to 11	4131
21 002 51	Workeasy Black PU	Knitted lightweight black polyester. Black polyurethane coating	6 to 11	3121
21 322 00	Workeasy Liner White	Knitted lightweight white polyester	7 to 11	Minor risks

General handling

Polyamide / PU

APPLICATIONS

- Assembly and transportation works
- Manufacturing of white goods (Ref. 616)
- Precision mechanics (assembling small/light parts)

ADVANTAGES

- Very good sensitivity/dexterity
- Excellent grip when handling greasy and oily parts
- Good mechanical resistance
- Camapur® Comfort 626 offers good resistance against dirt

SovaMech® 554

Ref. 554

Camapur® Comfort 616+

Ref. 616

Camapur® Comfort 617+

Ref. 617

Camapur® Comfort 619

Ref. 619

Camapur® Comfort 626

Ref. 626

FiroMech® 629+

Ref. 629

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
554	SovaMech® 554	Polyamide, seamless liner, knit wrist, PU palm coated, blue, 22 to 26 cm	7 to 10	2131
609	Camapur® Comfort 609+	Polyamide, seamless liner, knit wrist, white, 22 to 26 cm	6 to 11	Minor risks
616	Camapur® Comfort 616+	Polyamide, seamless liner, knit wrist, PU palm coated, white, 22 to 26 cm	6 to 11	3131
617	Camapur® Comfort 617+	Polyamide, seamless liner, knit wrist, PU fingertip coated, white, 22 to 24 cm	6 to 11	1130
619	Camapur® Comfort 619	Polyamide seamless liner, knit wrist, PU palm coated, grey, 22 to 26 cm	6 to 11	2131
626	Camapur® Comfort 626	Polyamide, seamless liner, knit wrist, deep palm coated, black, 22 to 26 cm	6 to 10	2131
629	FiroMech® 629+	Polyamide, seamless liner, knit wrist, PU palm coated, white, 22 to 25 cm	6 to 11	2010

General handling — Polyamide/PVC dots

APPLICATIONS

- Handling of cardboards, transportation tasks, assembling
- Packaging and commission works

ADVANTAGES

- Seamless, round-knitted liner for improved comfort
- PolyTRIX® BN 914 offers improved grip and mechanical resistance on fingertips due to additional sealing

PolyTRIX® B 910

Ref. 910

PolyTRIX® N 912

Ref. 912

PolyTRIX® BN 914 / PolyTRIX® BN FKV 1914

Ref. 914 / 1914

CuttoTRIX® N 922

Ref. 922

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards	
910	PolyTRIX® B 910	Polyamide, light knitted, knit wrist, blue, 23 to 27 cm	6 to 10	2140	✓
911	PolyTRIX® 911	Polyamide, cotton, light knitted, knit wrist, white, 23 to 27 cm	7 to 10	2140	
912	PolyTRIX® N 912	Polyamide, cotton, light knitted, knit wrist with PVC dots, white/yellow, 23 to 27 cm	6 to 11	2140	
914	PolyTRIX® BN 914	Polyamide, light knitted, knit wrist with PVC Dots, blue/yellow, 23 to 27 cm	7 to 11	1140	✓
1914	PolyTRIX® BN FKV 1914	Polyamide, light knitted, knit wrist with PVC Dots, sealed fingertips, blue/yellow, 23 to 27	7 to 10	1140	
922	CuttoTRIX® N 922	Polyamide, seamless liner, knit wrist, PU palm coated, white, 23 to 27 cm	7 to 10	2140	

APPLICATIONS

- Protection of electronical parts
- Electrical industry
- Automotive industry

ADVANTAGES

- Protection conforms to EN 16350:2014-07 for Antistatic proctection >1x108Ω at 23 ±1°C, relative humidity (25 ±5%)
- High wearing comfort due to good breathability
- Very good sensitivity, excellent fitt

Antistatic

CovaSpec® 470+

Ref. 470

CovaSpec® 471+

Ref. 471

Camapur® Comfort Antistatik 623+

Ref. 623

Camapur® Comfort Antistatik 624+

Ref. 624

Camapur® Comfort Antistatik 625+

Ref. 625

CE EN 420

EN 388

Others Standards

Ref.	Name	Characteristics	Sizes	Touch screen	Standards	
470	CovaSpec 470+	Polyamide, carbon, seamless liner, knit wrist, uncoated, cream, 18 to 22 cm	6 to 10		113X	EN 16350
471	CovaSpec 471+	Polyamide, carbon, seamless liner, knit wrist, PU fingertip coating, cream, 18 to 22 cm	6 to 10		113X	EN 16350
472	CovaSpec 472+	Polyamide, carbon, seamless liner, knit wrist, PU palm coated, cream, 20 to 24 cm	7 to 10		3131	EN 16350
623	Camapur Comfort Antistatik 623+	Polyamide, copper, seamless liner, knit wrist, uncoated, cream, 22 to 26 cm	7 to 10	✓	113X	EN 16350
624	Camapur Comfort Antistatik 624+	Polyamide, copper, seamless liner, knit wrist, fingertips coated, cream, 22 to 26 cm	6 to 10	✓	X13X	EN 16350
625	Camapur Comfort Antistatik 625+	Polyamide, copper, seamless liner, knit wrist, palm coated, cream, 22 to 26 cm	6 to 10	✓	3131	EN 16350

General handling

Nylon / Nitrile

RECOMMENDATIONS

- Fine handling in a dry, greasy, damp and dirty environment.

APPLICATIONS

- Mechanical assembly and subcontracting (automotive industry).
- Construction and public works.

ADVANTAGES

- The gloves combine mechanical resistance and dexterity.
- Excellent impermeable properties to oils.

Polytril™

Polytril™

Ref. 22 322 30

Polytril™ Black

Ref. 22 322 31

Polytril™ Mix

Ref. 22 322 33

Polytril™ Top

Ref. 22 322 36

Polytril™ Grip

Ref. 23 322 76

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
22 322 30	Polytril™	Knitted lightweight white polyamide. Waterproof grey nitrile coating	7 to 10	4121
22 322 31	Polytril™ Black	Knitted lightweight black polyamide. Waterproof black nitrile coating	6 to 11	4121
22 322 33	Polytril™ Mix	Knitted medium weight polyamide/black cotton. Rough black nitrile coating	6 to 11	4232
22 322 36	Polytril™ Top	Knitted lightweight polyamide. Waterproof black nitrile coating up until the wrist	6 to 10	4121
23 322 76	Polytril™ Grip	Knitted polyamide glove. Grey oilproof nitrile fully dipped. Black 3/4 coating nitrile foam.	7 to 11	3131

General handling

Nylon / Nitrile

RECOMMENDATIONS

- Fine handling in a dry, greasy, damp and dirty environment.

APPLICATIONS

- Mechanical assembly and subcontracting (automotive industry).
- Construction and public works.

ADVANTAGES

- The gloves combine mechanical resistance and dexterity.
- Excellent impermeable properties to oils.

Polytril™

Polytril™ Air 3/4

Ref. 22 322 72

Polytril™ Air Comfort

Ref. 22 322 73

Polytril™ Air Skin

Ref. 22 322 78

Nitri Task F2

Ref. NFF13H

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
22 322 72	Polytril™ Air 3/4	Knitted lightweight black polyamide. Black nitrile 3/4 foam coating	7 to 10	4121
22 322 73	Polytril™ Air Comfort	Knitted lightweight polyamide/cotton/Lycra®. Black nitrile foam coating	6 to 11	4121
22 322 78	Polytril™ Air Skin	Knitted extremely lightweight black polyamide. Black nitrile fine foam coating	7 to 10	3131
NFF13H	Nitri Task F2	Knitted blue polyamide. Black nitrile foam coating	7S to 11XXL	3131

General handling

Nylon / Nitrile

RECOMMENDATIONS

- Oily and damp environments.

APPLICATIONS

- Mechanical assembly and subcontracting (automotive industry).
- Construction and public works.
- Petrochemistry

ADVANTAGES

- New liquid repellent technology.
- Excellent grip in an oily environment.

Oil Grip

Oil Grip

Ref. NF35

Oil Grip FC

Ref. NF35F

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
NF35	Oil Grip	Knitted green polyamide. Micro finish black nitrile coating®	7S to 11XXL	3121
NF35F	Oil Grip FC	Knitted green polyamide. Fully coated with double dipped nitrile	7S to 11XXL	4131

General handling

Polycoton / Latex

RECOMMENDATIONS

- Handling of abrasive objects in a damp and non greasy environment.

APPLICATIONS

- Construction works (manipulation of materials, tiles etc.).
- DIY, gardening.
- Agricultural and forestry works.
- Waste collection.
- Handling (barbed wire).
- Glassware, carpentry.
- Steam blasting works (Ref. 447)

ADVANTAGES

- Excellent non-slip qualities.

DexGrip / Grip-Tex®

DexGrip

Ref. 20 941 40

DexGrip Light

Ref. 20 941 50

Dexgrip Rough Tuff

Ref. 20 941 60

Grip Latex

Ref. 20 941 45

Grip-Tex® 445+

Ref. 445

Grip-Tex® 447+

Ref. 447

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards	
				EN 388	EN 407
20 941 40	DexGrip	Knitted medium weight cotton/polyamide. Blue crinkled Latex coating.	7 to 11	2142	X2XXXX
20 941 50	DexGrip Light	Knitted lightweight polyamide/blue cotton. Thin blue crinkled Latex coating.	7 to 10	2121	
20 941 60	Dexgrip Rough Tuff	Knitted heavy cotton mix. Heavy latex coating. Antibacterial treatment	7 to 10	3242	Minor-risks
20 941 45	Grip Latex	Cut and sewn with interlock cotton. Green crinkled Latex coating.	7 to 10	4231	
445	Grip-Tex® 445+	Natural Latex coated liner, knit wrist, palm coated, strongly roughened, orange, 24,5 to 26,5 cm	8 to 10	X131	
447	Grip-Tex® 447+	Natural Latex coated cotton liner, cuff, fully coated, strongly roughened, orange, 29 to 31 cm	8 to 10	X131	

General handling

Cotton/Nitrile

Soflex / Superlite

RECOMMENDATIONS

- Heavy handling of abrasive objects in a damp, oily or greasy environment.

APPLICATIONS

- Mechanical assembly and subcontracting (automotive industry).
- Construction and public works.
- Petrochemical.

ADVANTAGES

- Superior support and coating quality.

Soflex

Ref. 20 952 25

Superlite Plus

Ref. T4700P

Superlite Plus

Ref. T4700

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
20 952 25	Soflex	Cut and sewn with interlock cotton. Yellow nitrile 3/4 coating. Knitted wrist	7 to 11	4111
T4700P	Superlite Plus	Cut and sewn with interlock cotton. Yellow nitrile palm coating. Knitted wrist	6XS to 10XL	3111
T4700	Superlite Plus	Cut and sewn with interlock cotton. Fully coated yellow nitrile. Knitted wrist	6XS to 10XL	3111

General handling

Cotton/Nitrile

APPLICATIONS

- Working with oily and wet parts
- Metalworking and mechanical engineering
- Assembly and transportation work
- Automotive industry

ADVANTAGES

- Glove surface free from silicone (lacquer indifference, test method automotive industry)
- Manufacturing method and ingredients are skin friendly
- Good resistance to mechanical damage
- Moisture-repellent
- Seamless cotton liner (Ref. 201)

Sahara®

Sahara® 100
Ref. 100

Sahara® Plus 101
Ref. 101

Sahara® Top 102
Ref. 102

Sahara® Premium 201
Ref. 201

Monsun® 105
Ref. 105

Monsun® 106
Ref. 106

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards	EN 388	EN 407	
100	Sahara® 100	Nitrile coated cotton liner, knit wrist, palm coated, yellow, 23,5 to 26,5 cm	7 to 10	3111			✓
101	Sahara® Plus 101	Nitrile coated tight-fitting cotton liner, knit wrist, palm coated, yellow, 24 to 27 cm	7 to 10	3111			
102	Sahara® Top 102	Nitrile tight-fitting cotton liner, knit wrist, palm coated, deeply coated, yellow, 24 to 27 cm	7 to 10	3111			✓
201	Sahara® Premium 201	Nitrile coated seamless cotton liner, knit wrist, palm coated, yellow, 24 to 28 cm	7 to 10	2111	X1XXXX		
105	Monsun® 105	Nitrile coated tight-fitting cotton liner, knit wrist, palm coated, yellow, 23,5 to 26,5 cm	7 to 10	2111			✓
106	Monsun® 106	Nitrile coated cotton liner, knit wrist, palm coated, yellow, 23,5 to 26,5 cm	7 to 10	2111			✓

General handling — Cotton/Nitrile

APPLICATIONS

- Metalworking and mechanical engineering
- Automotive industry
- Working with oily and wet parts
- Assembly and transportation work
- Construction industry
- Storage and packaging

ADVANTAGES

- Manufacturing method and ingredients are skin friendly
- Good resistance to mechanical damage
- Moisture-repellent
- Additional forearm protection by longer design (Ref. 109, 112)
- Wide cuff for quick donning and doffing (Ref. 109, 112, 301, 310)
- Glove surface free from silicone (lacquer indifference, test method automotive industry) (Ref. 151)
- High flexibility in comparison with leather gloves
- Free from Chromate VI

Gobi® 109

Ref. 109

Gobi® 112

Ref. 112

Taifun 151

Ref. 151

Man at Work® 301

Ref. 301

Worktril® 310

Ref. 310

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards	
109	Gobi® 109	Nitrile coated cotton liner, cuff, fully coated, yellow, 29 to 31 cm	7 to 10	3111	✓
112	Gobi® 112	Nitrile coated cotton liner, cuff, fully coated, yellow, 39 to 41 cm	9 to 10	3111	
151	Taifun 151	Nitrile coated cotton liner, knit wrist, palm coated, yellow, 23,5 to 26,5 cm	7 to 10	1111	✓
301	Man at Work® 301	Nitrile coated fabric, canvas cuff, knuckle protection, cream, 26 to 28 cm	8 to 11	2111	
310	Worktril® 310	Nitrile coated fabric, canvas cuff, palm coated, brown, 26 to 28 cm	8 to 11	3111	

General handling

Cotton/Nitrile

Nitex ®

APPLICATIONS

- Metalworking and mechanical engineering
- Working with oily and wet parts
- Manufacturing of cast parts
- Assembly and transportation work
- Construction industry
- Storage and packaging

ADVANTAGES

- Excellent mechanical resistance
- Moisture-repellent
- Wide cuff for quick putting on and taking off. (Ref. 309, 319, 177)
- Extremely rough palm which provides excellent grip (Ref. 177)

Nitex® 308+

Ref. 308

Nitex® 309+

Ref. 309

Nitex® Grip 177+

Ref. 177

Nitex® 318+

Ref. 318

Nitex® 319+

Ref. 319

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
308	Nitex® 308+	Nitrile coated cotton liner, knit wrist, fully coated, blue, 24 to 26 cm	10	4111
309	Nitex® 309+	Nitrile coated cotton liner, knit wrist, fully coated, blue, 25 to 27 cm	8 to 10	4111
177	Nitex® Grip 177+	Nitrile coated terry cloth liner, canvas cuff, palm coated, blue, 25 to 27 cm	9 to 10	3221
318	Nitex® 318+	Nitrile coated cotton liner, knit wrist, palm coated, blue, 24 to 26 cm	9 to 10	4111
319	Nitex® 319+	Nitrile coated cotton liner, canvas cuff, palm coated, blue, 25 to 27 cm	9 to 10	4111

General handling

Nitrile

APPLICATIONS

- Handling, intensive use in dirty, damp, greasy, and oily environments.

ADVANTAGES

- 100% jersey cotton lining.
- Nitrile coating.
- Antibacterial treatment.
- Complies with FDA CFR21 concerning contact with food.

Bluesafe

Bluesafe

Ref. T157

Bluesafe

Ref. T102

Bluesafe

Ref. T107

Bluetuff

Bluetuff

Ref. T257

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
T101	Bluesafe	Cut and sewn with interlock cotton. Blue nitrile 3/4 coating. Knitted wrist	8M to 10XL	3111
T102	Bluesafe	Cut and sewn with interlock cotton. Fully coated blue nitrile. Knitted wrist	9L to 10XL	3111
T107	Bluesafe	Cut and sewn with interlock cotton. Blue nitrile 3/4 coating. Safety cuff	9L to 10XL	3111
T157	Bluesafe	Cut and sewn with interlock cotton. Fully coated blue nitrile. Safety cuff	9L to 10XL	3111
T257	Bluetuff	Cut and sewn with interlock cotton. Fully coated blue nitrile. Safety cuff	9L to 10XL	3111

General handling

Nitrile

Worknit HD

APPLICATIONS

- External works, maintenance, assembly, grinding, handling of abrasive materials and small objects.

ADVANTAGES

- Very comfortable with a jersey cotton lining.
- Superior protective padding for working in extreme conditions.
- The nitrile coating creates good grip even when handling wet objects.
- Nitrile coating better resists abrasion than most leather gloves whilst remaining supple.

Worknit HD

Ref. 85/3721

Worknit HD

Ref. 85/3729

Worknit HD

Ref. 85/8721

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
85/3721	Worknit HD	Cut and sewn with jersey cotton. Palm coated in flexible nitrile. Black dots on reverse	8M to 10XL	3111
85/3729	Worknit HD	Cut and sewn with jersey cotton. Palm coated in flexible nitrile. Cotton stripes on reverse	8M to 11XXL	3111
85/8721	Worknit HD	Cut and sewn with jersey cotton. Palm coated in flexible nitrile. Black dots back. Safety cuff	9L to 10XL	3111

General handling

Cotton

Sofraclean

RECOMMENDATIONS

- Handling objects in a clean environment. Can be used as a liner glove against the cold.

APPLICATIONS

- Mounting and assembly
- Presentation and finishing operations.
- Handling of bottles (cosmetics, perfumes).
- Light thermal protection to a maximum of 50°C.

ADVANTAGES

- Ergonomic glove design for excellent comfort.

RU530

Ref. RU530

RU711

Ref. RU711

Sofraclean Fit

Ref. 20 782 22

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
RU530	RU530	Cut and sewn interlock whitened cotton, mid-heavy, ambidextrous	7 and 9	Minor risks
RU711	RU711	Cut and sewn interlock whitened cotton with elastan, ambidextrous	6 and 8	Minor risks
20 782 22	Sofraclean Fit	Cut and sewn with jersey cotton, knitted wrist	7 to 9	Minor risks

General handling

Nylon

RECOMMENDATIONS

- Handling of objects in a clean environment.

APPLICATIONS

- Mounting and assembly
- Presentation and finishing operations.
- Perfumery.
- Watches and jewellery.
- Photograpy and eye-wear.

ADVANTAGES

- Lint-free, polyamide is adapted to precision works.

Polytex

UA0100

Ref. UA0100

RF075

Ref. RF075

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
UA0100	UA0100	Cut and sewn polyamide Lycra, industrial cutting, ambidextrous	6, 8, 10-11	Minor risks
RF075	RF075	Cut and sewn textured polyester, forked strip between fingers for comfort, hemmed base	7 and 9	0121

General handling

Cotton

Tricoton

RECOMMENDATIONS

- Handling of small objects in a clean environment. Can be used as a liner glove.

APPLICATIONS

- Mounting and assembly
- Presentation and finishing operations
- Watches and jewellery.
- Photography and eye-wear.

ADVANTAGES

- Cotton is very comfortable when absorbing moisture from inside the glove.

Tricoton Ultra Light

Ref. RGT350

Tricoton

Ref. RGT450

Tricoton Light

Ref. RGT550

Tricoton Heavy

Ref. RGT850

Tricoton Light Long

Ref. RGT10550

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards EN 388	Standards EN 407
RGT350	Tricoton Ultra Light	100% knitted lightweight cotton	6 to 10	Minor risks	
RGT450	Tricoton	Knitted lightweight 100% cotton	6 to 9	Minor risks	
RGT550	Tricoton Light	Knitted lightweight 100% cotton	6 to 10	Minor risks	
RGT850	Tricoton Heavy	100% knitted heavy cotton	7 and 9	113X	X1XXXX
RGT10550	Tricoton Light Long	Knitted lightweight 100% cotton, wrist 10cm	7 to 9	Minor risks	

General handling

Nylon

RECOMMENDATIONS

- Handling of small objects in a clean environment.

APPLICATIONS

- Mounting and assembly
- Presentation and finishing operations
- Watches and jewellery.
- Photography and eye-wear.

ADVANTAGES

- Lint-free, polyamide/polyester is adapted to precision works.

Triconyl

Triconyl

Ref. RGT020

Triconyl Mitt

Ref. RGT820M

Triconyl Long

Ref. 22 320 97

Triconyl Microdots

Ref. 22 324 20

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
RGT020	Triconyl	Knitted lightweight 100% white polyamide	6 to 10	213X
RGT820M	Triconyl Mitt	Knitted lightweight 100% white polyamide. PVC dots on the palm. Cut fingers	7 to 9	213X
22 320 97	Triconyl Long	Knitted lightweight 100% white polyamide. 27cm in length	9	213X
22 324 20	Triconyl Microdots	Knitted lightweight 100% white polyamide. Micro PVC black dots on the palm.	6 to 10	Minor risks

General handling — Artificial leather

RewoMech®

APPLICATIONS

- Transportation and logistics
- Packaging and commission works
- Metalworking
- Mechanical engineering
- Automotive and supply industry

ADVANTAGES

- Excellent fit
- Very comfortable to wear
- Good breathability

RewoMech® 640

Ref. 640

RewoMech® 641

Ref. 641

RewoMech® 643

Ref. 643

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
640	RewoMech® 640	Artificial leather palm, stretch fabric, Velcro® fastener, grey, 21,5 to 27 cm	7 to 12	2121
641	RewoMech® 641	Artificial leather palm, moisture barrier palm, Velcro® fastener, grey, 21,5 to 27 cm	7 to 12	1132
643	RewoMech® 643	Artificial leather palm, cuff, grey, 21,5 to 28 cm	7 to 12	2121

General handling

Nylon/cotton

Resistex

RECOMMENDATIONS

- Handling abrasive and slightly sharp objects.

APPLICATIONS

- Mounting and assembly (automotive industry).
- Removal of plastic objects from the mould.
- Labelling and presentation.
- Decoration and finishing operations.

ADVANTAGES

- Interior cotton in the glove slows down sweating and increases comfort.

Resistex Light

Ref. RGT080

Resistex Light GRIP 2

Ref. 22 320 92

Resistex Light GRIP FL

Ref. RGT880DC

Abratex

RECOMMENDATIONS

- Handling abrasive and slightly sharp objects.

APPLICATIONS

- Mounting and assembly (automotive industry).
- Removal of plastic objects from the mould.
- Labelling and presentation.
- Decoration and finishing operations.

ADVANTAGES

- The mix of cotton and polyester fibres provides excellent comfort and unique flexibility.

Abratex Light

Ref. RGT088

Abratex Light GRIP

Ref. RGT888

Abratex Heavy GRIP

Ref. RGT898V

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
RGT080	Resistex Light	Knitted lightweight 33% polyamide (outside) 67% plaited cotton (inside).	7 and 9	113X
22 320 92	Resistex Light GRIP 2	Knitted lightweight polyester/cotton. PVC dots on both sides.	7 to 9	113X
RGT880DC	Resistex Light GRIP FL	Knitted lightweight 33% polyamide (outside) 67% cotton (inside). PVC dots on the palm. Index and thumb cut.	7 and 9	113X
RGT088	Abratex Light	Knitted lightweight 67% polyamide (outside) 33% plaited cotton (inside).	6 to 10	224X
RGT888	Abratex Light GRIP	Knitted lightweight 67% polyamide (outside) 33% cotton (inside). Green PVC dots on the palm.	6 to 11	224X
RGT898V	Abratex Heavy GRIP	Knitted heavy 50% green polyamide (outside) 50% plaited cotton (inside). PVC dots on the palm. Coloured green	7 and 9	223X

General handling

Water repellent leather

RECOMMENDATIONS

- Mid or heavy handling in a damp, oily and greasy environment.

APPLICATIONS

- All-weather outside works.
- Port and airport handling.
- Oil rig works.
- Maintenance.

ADVANTAGES

- Cowhide grain leather provides good mechanical resistance.
- The velvet palm improves abrasion resistance, which in turn increases the glove's lifespan.
- Good grip in an oily environment.

Velvet

Velvet Palm Long Cuff

Ref. 20 128 60

Velvet Palm Lastex

Ref. 20 491 31

CE EN 420

EN 388

2122	Name	Characteristics	Sizes	Standards
20 128 60	Velvet Palm Long Cuff	Palm velvet/reverse water-repellent cowhide grain leather. 10cm split leather cuff	7 to 11	3122
20 491 31	Velvet Palm Lastex	Palm velvet/reverse water-repellent cowhide grain leather. Comprehensive vein protection	8 to 11	3121

General handling

Water repellent/Natural leather

RECOMMENDATIONS

- Mid or heavy handling in a damp, oily and greasy environment.

APPLICATIONS

- All-weather outside work.
- Port and airport handling.
- Oil rig work.
- Maintenance.

ADVANTAGES

- Cowhide grain leather provides good mechanical resistance.
- Resistance to oil and grease.

Hydro/Grain

Hydrograin

Ref. 20 492 60

RECOMMENDATIONS

- General handling in a clean environment.

APPLICATIONS

- Building, construction.
- Logistics.
- Automotives, automotive equipment suppliers.

Hydrograin EW

Ref. 20 491 60

ADVANTAGES

- Cowhide grain leather provides exceptional flexibility.

Grain Driver

Ref. 20 301 95

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
20 492 60	Hydrograin	Water-repellent cowhide grain leather. Elastic on reverse	7 to 12	2121
20 491 60	Hydrograin Ew	Water-repellent cowhide grain leather. Lastex wrist protects veins.	7 to 12	2122
20 301 95	Grain Driver	Cowhide grain leather. Elastic on reverse	8 to 11	3121

General handling

Natural leather

RECOMMENDATIONS

- Fine handling in a dry environment.

APPLICATIONS

- Mechanical precision.
- Logistics.
- Automotive, automotive equipment suppliers.

ADVANTAGES

- Fine leather for better dexterity and grip.

Precision Tex EW

Ref. 20 516 52

Precision Tex 2

Ref. CT1615CH

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
20 516 52	Precision Tex EW	Natural cowhide grain leather. Elastic on reverse	7 to 10	1X11
CT1615CH	Precision Tex 2	Palm cowhide grain leather/reverse split leather. Elastic on reverse	6 to 11	2121

General handling

Leather

APPLICATIONS

- Cryogenic: Handling of liquid gas (nitrogen).
- Fireman: fireman gloves.
- Chainstop: protection against risks linked to the handling of chainsaws.
- Velvet Shock: shock protection.
- WaveBreaker: working with vibrating equipment/machines to reduce white finger syndrome (ship building, aircraft manufacturing)

ADVANTAGES

CRYOGENIC:
- Silicon water-repellent cowhide grain leather gloves guarantees good flexibility at low temperatures. It is water-repellent and offers good mechanical protection.

FIREMAN:
- The cotton Kevlar® coating offers good protection against cuts and thermal hazards.
- The assembly of Kevlar® wires guarantees uniform stitching against heat and wear and tear.

VELVET SHOCK:
- Protection of the reverse and palm of the hand against shocks.

WAVEBREAKER:
- Ref. 633: Module version: separate outer glove for economical exchange

Specifics

Cryogenic

Ref. 20 586 85

Fireman

Ref. 22 815 61

Velvet Shock

Ref. 20 491 32

WaveBreaker

Ref. 33 and 633

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards		
				EN 388	EN 407	EN 511
20 586 85	Cryogenic	Silicon water-repellent cowhide grain leather. Fully lined with aluminized polar fleece. 20cm split leather cuff with Velcro® fastening. 40cm in length	9 to 11	3222		222
22 815 61	Fireman	Water-repellent cowhide grain leather. Lined jersey Kevlar/cotton. Split leather cuff with Velcro® fastening. Kevlar stitching.	7 to 11	3222	4132XX	
20 491 32	Velvet Shock	Palm water-repellent cowhide grain leather. Velvet on reverse. Shockproof reinforcement on back and palm. Lastex wrist	9 to 11	2121		
33	WaveBreaker (outer glove)	Outer glove only, artificial leather palm, Velcro® fastener, cuff, black	9 to 10	Minor risks		
633	WaveBreaker 633	Module version, waterproof inner glove with anti-vibration inlay, outer glove: artificial leather palm, Velcro® fastener, cuff, black, 32 to 34 cm	9 to 10	2121		

Cut protection

Protection against the risk of cuts is guaranteed by the use of high performance fibres and materials (Spectra®, Kevlar®, steel fibres…) which are industry benchmarks. Due to the use of high performance technical materials, such as Spectra®, Kevlar® and steel fibre we are able to offer a complete range of gloves to protect users against all kinds of cutting risks.

Puncture protection

RECOMMENDATIONS

- Piguard™ Urban: All in 1 glove for the handling of objects with high risk of puncture.
- Piguard™: Protective liners for use under other gloves for the handling of objects with high risk of punctures.

APPLICATIONS

- Health (hospital waste, hospital laundry, veterinaries).
- Collection and sorting (household waste, electrics, electronics).
- Waste with risk of infection.
- Law enforcement (police, customs).
- Cleaning activity (planes, trains, stadiums...).
- Maintenance (factories treating anuclear waste, lifts).

ADVANTAGES

Picguard™ Urban:

- New technology that integrates puncture resistant layers into a single glove
- Textured surface for excellent grip and dexterity
- New thumb crotch design (more resistant and providing better flexibility on forefinger)
- Black color

Picguard™: Reusable liner glove (only the protector glove undergoes environmental wear and tear), ergonomic design for better, tactile sensitivity, and more comfort and dexterity.

Picguard™ Urban

New

Ref. 23 972 01

Picguard™

Ref. 23 972 00

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards	
23 972 01	Picguard™ Urban	Jersey/viscose lining. Para-aramide interior protection with polyurethane/ceramic coating.	6 to 13	4543	ASTM 2878
23 972 00	Picguard™	Coolmax® polyester liner glove. Para-aramid interior protection with polyurethane/ceramic coating. Polyester viscose lining	S to XL	4444	ASTM1342

Cut protection

APPLICATIONS

- Plastics and sheet processing
- Cleaning of puplic transportation / places
- Gardening and landscaping
- Waste sorting
- Prisons
- Hospitals and nursing homes with high contact risks to injection needles (Ref. 180)

ADVANTAGES

- Puncture and cut protection at the palm and back of the hand
- High economic effiency due to reusability after washing (Ref. 646)
- Ref. 180: Long durability by replacement of outer glove - Approximately 200 high-grade steel platelets sewn on the palm of the glove - High level of protection against needle injuries on the palm - Outer glove is available separately as replacement (Ref. 080)

StichStop® plus

Ref. 80 and 180

RewoSpec® 646

Ref. 646

CE EN 420

EN 388

EN 374

Ref.	Name	Characteristics	Sizes	Standards
80	StichStop® Plus 80	Outer glove only, nitrile coated interlock fabric, Velcro® fastener, brown, 28 to 30 cm	8 to 11	
180	StichStop® Plus 180	Nitrile, steel, cotton jersey,para-aramid, modular version, cuff, Velcro® fastener, brown, 28 to 30 cm	8 to 11	3544
646	RewoSpec® 646	Artificial leather palm, Velcro® fastener, cut and puncture protection fabric, grey, 22 to 27 cm	8 to 12	2244

Cut protection 3 — HPPE

APPLICATIONS

- Assembly works with medium cut risk
- Metal sheet processing
- Manufacturing of white goods (Ref. 618)
- Processing of synthetic material

ADVANTAGES

- Sure grip when handling slightly oily parts
- Ref. 521: glove surface free from silicone

Camapur® Cut

PuroCut® 521

Ref. 521

Camapur® Cut 618

Ref. 618

Camapur® Cut 620

Ref. 620

Camapur® Cut 627

Ref. 627

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
521	PuroCut® 521	Dyneema®,seamless liner, knit wrist, nitrile foam palm coated, black, 22,5 to 27,5 cm	7 to 12	4343
618	Camapur® Cut 618	Spectra®, seamless liner, knit wrist, PU palm coated, white, 22 to 26 cm	6 to 11	4342
620	Camapur® Cut 620	Spectra®, seamless liner, knit wrist, PU palm coated, grey, 22 to 26 cm	6 to 11	4342
627	Camapur® Cut 627+	Dyneema®, seamless liner, knit wrist, PU palm coated, black, 22 to 26 cm	6 to 12	4321

Cut protection 3/4 — Para-aramid

Aracut®

RECOMMENDATIONS

- Handling of sharp objects in a damp environment (Latex version) and in a greasy environment (nitrile and leather versions).

APPLICATIONS

- Assembly and mounting (automotive industry).
- Handling of steel rods and sheet metal.
- Treatment of paper and cardboard (using cutters).
- Twisting of cables.
- Handling of glass.
- Finishing operations in the plastics industry.
- Handling of delicate objects: household appliances.

ADVANTAGES

- Complete range, products available with different finishes (Latex, leather, nitrile, polyurethane).

Aracut Lat

Ref. 20 941 41

Aracut Nit

Ref. RGTK830

Hydrocut KN

Ref. 20 492 96

Velvet Cut

Ref. 20 492 92

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407
20 941 41	Aracut Lat	Knitted medium weight Kevlar®. Blue crinkled Latex coating.	7 to 10	3444	X2XXXX
RGTK830	Aracut Nit	Knitted medium weight para-aramid (Twaron® or Kevlar®). Grey nitrile coating	7 to 11	4342	
20 492 96	Hydrocut KN	Water-repellent cowhide grain leather. Knitted Kevlar® doubled glove. Lastex wrist with vein protection. Length: 30cm	8 to 11	3343	
20 492 92	Velvet Cut	Water-repellent cowhide leather. Palm Velvet / Back grain leather. Jersey Kevlar® lining. Lastex wrist. Vein protection. Length: 30cm	9 to 11	3222	

Cut protection 3 — Para-aramid

RECOMMENDATIONS

- Handling sharp and slippery objects in a dry or lightly greasy/damp environment.

APPLICATIONS

- Recycling, rubbish sorting.
- Handling of sheet and scrap metal, demolition.
- Glass handling.

ADVANTAGES

- Products offering excellent cut resistance.

Aracut®

Aracut Light
Ref. 22 320 87

Aracut
Ref. 20 320 86

Aracut Grip
Ref. 20 320 85

Aracut FL Dots
Ref. GTK8500M

JunkYard Dog
Ref. 20 321 01

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards	
				EN 388	EN 407
22 320 87	Aracut Light	Knitted lightweight Kevlar®	7 to 10	024X	
20 320 86	Aracut	Knitted medium weight Kevlar®	6 to 10	134X	X1XXXX
20 320 85	Aracut Grip	Knitted medium weight Kevlar®. PVC dots on palm	6 to 11	034X	
GTK8500M	Aracut FL Dots	Knitted medium weight para-aramid mitten (Twaron® or Kevlar®). PVC dots on palm, fingers cut	7 to 9	134X	
20 321 01	JunkYard Dog	Knitted heavy Kevlar®. Reinforced split leather on palm and fingers	9 and 10	4443	

Honeywell

Cut protection 3 — Para-aramid

APPLICATIONS

- Beverage industry, e.g. sorting out broken glass in breweries, handling of wet glass (Ref. 930)
- Steel and metal processing, e.g. cutting metal sheets to size

ADVANTAGES

- Good cut resistance combined with mechanical barrier
- Excellent fine touch
- Good grip, even with smooth and moist objects

K-TEX® 930 +

Ref. 930

K-MEX® N 934

Ref. 934

K-MEX®

APPLICATIONS

- Steel and metal processing, handling of moist and oily parts, e.g. cutting oily thin sheets to size
- Plastics processing, e.g. deburring of door coverings
- Chemical industry, e.g. as under glove (Ref. 933)

ADVANTAGES

- High wearing comfort
- Heat insulation with low to medium heat development (Ref. 992, 995)
- Ref. 995 with additional leather trimming arround finger tip for additional protection

K-MEX® 933

Ref. 933

K-MEX® L 992

Ref. 992

K-MEX® L 995

Ref. 995

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
930	K-TEX® 930 +	Para-aramid, medium knitted, knit wrist with latex palm coating, 23 to 27 cm	7 to 10	3444	
934	K-MEX® N 934	Para-aramid, medium knitted, knit wrist with PVC dots, yellow, 23 to 27 cm	7 to 10	1340	
933	K-MEX® 933	Para-aramid, medium knitted, knit wrist, 23 to 27 cm	7 to 10	1340	
992	K-MEX® L 992	Para-aramid, leather, medium knitted, knit wrist, leather trimming on the palm, 23 to 27 cm	7 to 10	3344	41XXXX
995	K-MEX® L 995	Para-aramid, leather, medium knitted, knit wrist, leather trimming on the palm and fingertip, 23 to 27 cm	8 to 10	3344	41XXXX

Cut protection 3

Kevlar®

RECOMMENDATIONS

- Handling sharp and/or hot objects.

Cuffs

APPLICATIONS

- Assembly and mounting (automotive industry).
- Handling of steel rods and sheet metal.
- Treatment of paper and cardboard.
- Twisting of cables.
- Finishing operations in the plastics industry.
- Metallurgy and foundries.

ADVANTAGES

- The double thickness improves the cuff's mechanical and thermal performances.

Aracut® range

Ref. 41 500 64

Armcut Black 14

Ref. 41 500 58

Armcut 14 BT

Ref. 41 500 57

ArMEX 961

Ref. 961

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
41 500 64	Aracut Sleeve 14	Knitted medium weight Kevlar® sleeve. Thumbhole. Length: 35cm	One size	132X	X1XXXX
41 500 55	Aracut Sleeve II	Knitted medium weight Kevlar® sleeve. Thumbhole, split leather reinforcement. Length: 36cm	One size	4443	X2XXXX
41 500 58	Armcut Black 14	Knitted medium weight black Kevlar® sleeve. Thumbhole. Length: 36cm	One size	132X	X1XXXX
41 500 57	Armcut 14 BT	Knitted medium weight Kevlar® sleeve. Thumbhole. Thumbhole. Length: 36cm	One size	132X	X1XXXX
44 028 35	Aracut Sleeves	Knitted medium weight Kevlar® sleeve. Thumbhole. Length: 45cm	One size	132X	X1XXXX
961	ArMEX 961	Para-aramid sleeve with thumb hole, yellow length: 36cm	360mm	1340	
961	ArMEX 961	Para-aramid sleeve with thumb hole, yellow length: 42cm	420mm	1340	

Cut protection 3

Nylon/cotton

RECOMMENDATIONS

- Handling of sharp and abrasive objects as well as heavy, cold and hot objects (maximum 100°C).

APPLICATIONS

- Removing objects from the mould of up to 100°C.
- Metal fittings operations (automotive industry).
- Rubber industry.
- Handling of glassware.

ADVANTAGES

- Economical alternative to para-aramid knitted gloves.
- Long cuff to protect the forearm.

Resistop

Resistop

Ref. RGT099

Resistop Green

Ref. RGT099V

Resistop Grip Green

Ref. RGT899V

Resistop Long

Ref. RGT15099G

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards (EN 388)	(EN 407)
RGT099	Resistop	Knitted heavy 73% white polyamide (outside) plaited 27% cotton (inside)	7 to 9	234X	X1XXXX
RGT099V	Resistop Green	Knitted heavy 73% green polyamide (outside) plaited 27% cotton (inside)	7 to 10	234X	X1XXXX
RGT899V	Resistop Grip Green	Knitted heavy 73% green polyamide (outside) plaited 27% cotton (inside). PVC dots on palm	7 to 10	234X	X1XXXX
RGT15099G	Resistop Long	Knitted heavy 73% grey polyamide (outside) plaited 27% cotton (inside). 15cm knitted wrist	7 to 9	234X	X1XXXX

Cut protection 4/5

Dyneema®

RECOMMENDATIONS

- Handling of sharp objects in a dry and greasy environment (nitrile version) requiring excellent dexterity and good grip.

APPLICATIONS

- Assembly and mounting (automotive industry).
- Handling of steel rods and sheet metal.

ADVANTAGES

- Resistance to cuts, exceptional dexterity.
- The fresh touch of Dyneema® provides a feeling of comfort.

Perfect Cutting® Diamond

Perfect Cutting® Diamond PU Original

Ref. 23 322 45

Perfect Cutting® Diamond Nitrile

New

Ref. 23 322 14

Perfect Cutting® Diamond PU Long

New

Ref. 23 322 47

Light Task Plus 4

Ref. NFG17X

Perfect Cutting® Diamond PU Black

New

Ref. 23 322 43

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
23 322 45	Perfect Cutting® Diamond PU Original	Knitted lightweight Dyneema® Diamond / Lycra - Black polyurethane coating / White liner Gauge 13 - Cuff 25 cm	6 to 11	4442
23 322 14	Perfect Cutting® Diamond Nitrile	Knitted lightweight Dyneema® Diamond / Polyamide / Elastan - Black nitrile coating / Salt & pepper liner - Gauge 13 - Cuff 25 cm	7 to 11	4543
23 322 43	Perfect Cutting® Diamond PU	Knitted lightweight Dyneema® Diamond / Polyamide / Elastan - Grey polyurethane coating - Salt & pepper liner - Gauge 13 - Cuff 25 cm	7 to 11	4542
23 322 47	Perfect Cutting® Diamond PU Long	Knitted lightweight Dyneema® Diamond / Polyamide / Elastan - Grey polyurethane coating - Salt & pepper liner - Gauge 13 - Long cuff 30 cm	7 to 11	4542
NFG17X	Light task Plus 4	Knitted polyamide/glass fibre. Bi-polymer 3/4 coating	7S to 11XXL	4432

Cut protection 4/5 — Glass fibre

APPLICATIONS

- Metal processing, e.g. handling of sharp-edged metal sheets
- Assembly works with high danger of cuts
- Printing industry, e.g. changing of cutting blades
- Waste disposal industry, e.g. working at sorting machines

ADVANTAGES

- Very high cut resistance combined with mechanical barrier (Ref. 978, 979)
- Good puncture resistance (not syringes) (Ref. 830)
- Heat insulation for medium temperatures

SivaCut® 830

Ref. 830

K-LUX® N 936

Ref. 936

TAG-MEX 978

Ref. 978

TAG-MEX N 979

Ref. 979

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407
830	SivaCut® 830	Para-aramid, medium knitted, latex deeply coated, knit wrist, blue/yellow, 23 to 27 cm	7 to 11	2543	
936	K-LUX® N 936	Para-aramid, heavy knitted, knit wrist with PVC dots, yellow, 23 to 27 cm	7 to 10	1440	
978	TAG-MEX 978	Para-aramid, glass fibre, cotton, medium knitted, knit wrist, yellow/grey, 23 to 27 cm	8 to 10	1540	X1XXXX
979	TAG-MEX N 979	Para-aramid, glass fibre, cotton, medium knitted, knit wrist with PVC dots, yellow/grey, 23 to 27 cm	7 to 10	1540	X1XXXX

Cut protection 4 — Para-aramid

APPLICATIONS

- Handling of sharp-edged materials
- Metal and plastics processing
- Automotive and supply industry
- Mechanical engineering

ADVANTAGES

- High cut and mechanical resistance
- Very good grip even in contact with moisture (Article 656)
- Additional forearm protection (Article 658) due to long cuff
- High flexibility

DumoCut®

DumoCut® 655

Ref. 655

DumoCut® 656

Ref. 656

DumoCut® 657

Ref. 657

DumoCut® 658

Ref. 658

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
655	DumoCut® 655	Glass fibre, polyamide, seamless liner, knit wrist, PU palm coated, white, 23 to 29 cm	6 to 11	4441
656	DumoCut® 656	Glass fibre, polyamide, seamless liner, knit wrist, Nitrile foam palm coated, blue, 22,5 to 29,5 cm	7 to 12	4441
657	DumoCut® 657	Glass fibre, polyamide, seamless liner, knit wrist, Nitrile palm coated, blue, 21,5 to 28,5 cm	7 to 11	3441
658	DumoCut® 658	Glass fibre, polyamide, seamless liner, knit wrist, PU palm coated, black, 35 cm	6 to 11	4441

Cut protection 4/5 — Para-aramid/Steel

RECOMMENDATIONS

- Handling of heavy and very sharp objects with sharp edges.

APPLICATIONS

- Handling of paper, sheet metal, glass plates, plastic items, finishing operations with cutters (Tuff Cut, Tuff Cut Grip).
- Handling of objects in an aqueous environment: slippery objects from the glass industry, waste collection centres, etc. (Tuff Cut Lat).
- Handling of greasy or oily objects: steel rods, sheet metal (Tuff Cut Nit).

ADVANTAGES

- Para-aramid/steel wire offers exceptional resistance to cutting (level 4/5) as well as good abrasion resistance (level 3).
- Increased protection against sharp edges.
- Extended wrist for increased protection of the forearm.

Tuff Cut

Tuff Cut Grip

Ref. 22 325 31

Tuff Cut Lat

Ref. 22 325 32

Tuff Cut Nit

Ref. 22 325 33

Tuff Cut PU

Ref. 22 325 35

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards		
				EN 388	EN 407	ISO 13997 TDM CUT >22N
22 325 31	Tuff Cut Grip	Knitted lightweight para-aramid, polyamide, steel fibre. Reinforcement thumb and index in Kevlar. PVC dots on palm	7 to 11	354X	X1XXXX	37,4 N
22 325 32	Tuff Cut Lat	Knitted lightweight para-aramid, polyamide, steel fibre. Crinkled Latex coating.	7 to 11	3543	X2XXXX	24 N
22 325 33	Tuff Cut Nit	Knitted lightweight para-aramid, polyamide, steel fibre. Black nitrile foam coating	7 to 11	4543	X1XXXX	-
22 325 35	Tuff Cut PU	Knitted lightweight para-aramid, polyamide, steel fibre. PU coating on palm	7 to 11	4543	X1XXXX	24 N

Cut protection 5 — Dyneema®/Composite fibre

RECOMMENDATIONS

- Handing of very sharp objects with sharp edges require good dexterity and tactility.

APPLICATIONS

- Handling of paper, fine sheet metal, sheets of glass, plastics items, cutting tools and finishing operations with cutters.
- Handling of damp and slippery objects such as steel rods and sheet metal.

ADVANTAGES

- Excellent protection against cuts (level 5).
- Excellent dexterity.
- The fresh touch of Dyneema® provides a feeling of comfort.

WITH Dyneema®

Flexidyn PU

Ref. 21 325 45

Oil Grip NFD35X

Ref. NFD35X

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	
21 325 45*	Flexidyn PU	Knitted lightweight Dyneema®/polyamide/composite fibre. Grey polyurethane coating	7 to 11	4543
NFD35X	Oil Grip NFD35X	Knitted Dyneema®/white/green glass fibre. 3/4 nitrile double coating	7S to 11XXL	4543

*30cm version on request

Cut protection 5 — Leather

RECOMMENDATIONS

- Handling of heavy and very sharp objects with sharp edges.

APPLICATIONS

- Handling of paper, sheet metal, glass plates, plastic items, finishing operations with cutters

ADVANTAGES

- Para-aramid/steel wire offers exceptional resistance to cutting (level 5) as well as excellent abrasion resistance (level 4).
- Increased protection against sharp edges.

Split Cut

Ref. 20 492 97

Stamping Master

Ref. 20 540 97

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standard
20 492 97	Split Cut	Anti-cut lined knitted split leather cowhide. Lastex wrist	8 to 11	4543
20 540 97	Stamping Master	Flexible split leather cowhide leather, twill lined reverse knitted Dyneema® glass. 16cm twill cuff	9 to 10	4543

Cut protection 5 — Para-aramid/Composite fibre

Sharpflex

RECOMMENDATIONS

- Handling heavy objects with the risk of cuts.

APPLICATIONS

- Automotive.
- Small and large household appliances.
- Logistics.
- Glass, perfumery.
- Construction (plumbing, carpentry).

ADVANTAGES

- Good value for money, high quality, reliable cut resistance.
- Excellent dexterity.
- Lightweight thermal protection (100°C) thanks to Kevlar®.

Sharpflex Dots

Ref. 22 325 21

Sharpflex Liner

Ref. 22 325 22

Sharpflex PU

Ref. 22 325 23

Sharpflex Nit

Ref. 22 325 24

Sharpflex Latex

Ref. 22 325 25

CE EN 420

EN 388

EN 407

Ref.	Name	Characteristics	Sizes	Standards	
22 325 21	Sharpflex Dots	Knitted lightweight para-aramid, polyamide, composite fibre. Black PVC dots on palm	7 to 11	454X	X1XXXX
22 325 22	Sharpflex Liner	Knitted lightweight para-aramid, polyamide, composite fibre. Reinforcement thumb and index in Kevlar.	7 to 11	254X	X1XXXX
22 325 23	Sharpflex PU	Knitted lightweight para-aramid, polyamide, composite fibre. Black polyurethane coating	7 to 11	4541	
22 325 24	Sharpflex Nit	Knitted lightweight para-aramid, polyamide, composite fibre. Black nitrile 3/4 coating	7 to 11	4542	X1XXXX
22 325 25	Sharpflex Latex	Knitted lightweight para-aramid, polyamide, composite fibre. Blue crinkled Latex coating.	7 to 10	3542	X2XXXX

Cut protection 5 — Dyneema®/Contact with food

Tuffshield®

RECOMMENDATIONS

- In a food environment.

APPLICATIONS

- Boning and cutting.
- Handling of fruit and vegetables.
- Restoration.
- Collective restoration.
- Preparation of fish into fillets.
- Cleaning slicers.

ADVANTAGES

- Protection level 5 against cuts.
- Certified food contact. Bacteriostatic.
- Ambidextrous.
- The fresh touch of Dyneema® provides a feeling of comfort.
- Composite wires sheathed and completely protected.

Tuffshield® Deep Blue

New

Ref. 23 129 28

Tuffshield® Evolution Light

Ref. 20 129 53

Tuffshield® Evolution Medium

Ref. 20 129 50

Tuffshield® Evolution Heavy

Ref. 20 129 57

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Touch screen	Standards	
23 129 28	Tuffshield® Deep Blue (pair)	Knitted in HPPE/polyamide/protected composite fibre. Fully coated light blue nitrile foam	7 to 11		4542	✓
20 129 53	Tuffshield® Evolution Light	Knitted lightweight Dyneema®, glass and steel protected. Bacteriostatic yarn. PowerCuff knitted wrist™. Ambidextrous	6 to 10		254X	✓
20 129 50	Tuffshield® Evolution Medium	Knitted medium weight Dyneema®, glass and steel protected. Bacteriostatic yarn. PowerCuff knitted wrist™. Ambidextrous	6 to 11	✓	254X	✓
20 129 57	Tuffshield® Evolution Heavy	Knitted heavy Dyneema®, glass and steel protected. Bacteriostatic yarn. PowerCuff knitted wrist™. Ambidextrous	6 to 10		354X	✓

Heat protection

Whether you plan to handle objects from 100°C or 1000°C, our thermal protective gloves guarantee superior insulation in situations of extreme heat.

Welders

RECOMMENDATIONS

- Welding and heavy handling.

APPLICATIONS

- MIG welding.
- Arc welding.
- Heavy handling.

ADVANTAGES

- Highest quality leather and stitching for an extended lifespan.

Proof Welding

Ref. 20 000 40

Green Welding

Ref. 20 000 41

Green Welding Plus

Ref. 20 000 42

Blue Welding

Ref. 20 000 44

CE EN 420

Argon

Ref. 20 128 04

EN 388 EN 407 Others Standards

Ref.	Name	Characteristics	Sizes	Standards		
20 000 40	Proof Welding	Water-repellent anti-heat split leather. Non flammable jersey lining. Kevlar® stitching. Length: 35cm	8 to 10	4144	413X4X	EN12477 Type A
20 000 41	Green Welding	Split leather, reinforced palm. Reinforced palm. Kevlar® stitching. Length: 34cm cuff: 14cm	8 to 10	4133	413X4X	EN12477 TYPE A
20 000 42	Green Welding Plus	Split leather, reinforced palm. Fully lined. Kevlar® stitching. Length: 34cm	8 to 10	4133	413X4X	EN12477 TYPE A
20 000 44	Blue Welding	Blue split leather. Doubled cotton fleece. Length: 35cm	9 to 10	3132	413X4X	EN12477 TYPE A
20 128 04	Argon	Goatskin grain leather. 15cm split cuff. Length: 35cm	9 to 11	3121		

Heat protection

Leather

RECOMMENDATIONS

- Heavy welding.

APPLICATIONS

- TIG and MIG welding.
- Arc welding.
- Welding type A.
- Radiant heat.

ADVANTAGES

- Specific materials are used in specific areas to provide the user with the maximum comfort and protection.
- Highest quality leather and stitching for an extended lifespan.

Welders

Therma Welder

Ref. 20 586 40

MIG Fit

Ref. 20 586 91

Welding Cut

Ref. 20 492 94

Maxi Welder Cut

Ref. 20 585 90

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407	Others Standards
20 586 40	Therma Welder	Black cowhide grain leather, resistant to high temperatures. 20cm split cuff. Length: 39cm	8 to 11	2121	413X4X	EN12477 TYPE B
20 586 91	MIG Fit	Anti-heat split leather. Back preox aluminised. Fully lined. Length: 36cm	10 to 11	3143	41344X	EN12477 TYPE A
20 492 94	Welding Cut	Water-repellent cowhide leather. Velvet palm/ grain back. Kevlar/cotton lining. 15cm heat insulated split cuff. Length: 39cm	8 to 12	3222	413X4X	EN12477 TYPE A
20 585 90	Maxi Welder Cut	Cowhide leather/Kevlar® Palm Kevlar fleece coated silicon/ back grain hydro. Cotton lining. 15cm split cuff. Length: 38cm	8 to 10	3421	433X4X	EN12477 TYPE B

Heat protection

Leather

RECOMMENDATIONS

- Welding and foundry.

APPLICATIONS

- TIG and MIG welding, arc welding, welding type A.
- Radiant heat.
- Foundry and cutting.
- Operations removing from the mould.
- Handling of hot objects in the plastics industry.
- Handling of hot objects in mechanics or glassware.

ADVANTAGES

- Specific materials are used in specific areas to provide the user with maximum comfort and protection.
- Highest quality leather and stitching for an extended lifespan.

Welders

Heat Shield Left

Ref. 20 592 26

Heat Shield Right

Ref. 20 592 25

Foundry

Foundry M10

Ref. 20 128 43

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
20 592 26	Heat Shield Left	Anti-heat split leather shield, palm side. Back aluminised preox. Kevlar® stitching. Left hand			
20 592 25	Heat Shield Right	Anti-heat split leather shield, palm side. Back aluminised preox. Kevlar® stitching. Right hand			
20 128 43	Foundry M10	Anti-heat split leather. Fully lined cotton viscose. Split cuff lined cotton. Length: 30cm	9 to 12	3143	41324X

Heat protection - 100°C / 250°C

Cotton

RECOMMENDATIONS

- Contact temperatures up to 100°C.

APPLICATIONS

- For operations removing from the mould .
- Handling of hot objects in the plastics industry.
- Handling of hot objects in mechanics or glassware.

ADVANTAGES

- Economical, brushed cotton offers good resistance to mechanical hazards and heat to contact temperatures of up to 250°C.

Jersey Light

Ref. RPB1433S

GE9820

Ref. GE9820

Crystal S Reinforced

Ref. RGE6811

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407
RPB1433S	Jersey Light	Cut and sewn jersey fleece cotton. brown coloured. Length: 26cm	One size	0121	X1XXXX
RGE6811	Crystal S Reinforced	Cut and sewn cotton. Palm in brushed cotton drill, brushed outside. Canvas cuff 6cm. Length: 27cm	One size	1222	X1XXXX
GE9820	GE9820	Cut and sewn cotton. Palm in brushed cotton drill, 2 ply. Length: 60cm	One size	1132	X1XXXX

Heat protection - 100°C / 250°C

Cotton

RECOMMENDATIONS

- Contact temperatures up to 250°C.

Terry

APPLICATIONS

- Glassware.
- Metallurgy and foundry.
- Handling of hot objects in the plastics industry.

ADVANTAGES

- The knitted terry cloth cotton offers good protection against mechanical and thermal hazards (up to 250°C).

Terry

Ref. RGT1685

Terry Heavy

Ref. RQE9607A

Terry Mix

Ref. 20 326 25

Terrytop Canvas

Ref. 22 320 39

MFL40607DJ

Ref. MFL40607DJ

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
RGT1685	Terry	Terry cloth cotton. 7cm Wrist on board. Length: 27cm	10	1232	X2XXXX
RQE9607A	Terry Heavy	100% terry cloth cotton. 15cm cuff. Length: 36cm	One size	2331	X2XXXX
20 326 25	Terry Mix	Mix terry cloth cotton/polyester. grey coloured. Length: 25cm	9	232X	X2XXXX
22 320 39	Terrytop Canvas	Terry cloth cotton. 16cm canvas cuff. Length: 37cm	One size	1231	X2XXXX
MFL40607DJ	MFL40607DJ	Knitted terry cloth cotton mitten. Lined jersey cotton. PVC film between the terry cloth and the jersey. Length: 40cm	One size	2332	X2XXXX

Heat protection - 100°C / 250°C

Cotton

RECOMMENDATIONS

- Laboratories
- Contact temperatures up to 250°C.

APPLICATIONS

- Glassware.
- Metallurgy and foundry.
- Handling of hot objects in the plastics industry.

ADVANTAGES

- Economical, brushed cotton offers good resistance to mechanical hazards and heat to contact temperatures of up to 250°C.
- References 955 additionally offer good cut protection (reinforced at the pinch).

RGE8865GR

Ref. RGE8865GR

RAE8815

Ref. RAE8815

Thermoplus® 955

Ref. 955

Honeywell

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards EN 388	Standards EN 407
RGE8865GR	RGE8865GR	100% brushed jersey piqué cotton. Palm (visible scratching), reverse (internal scratching). Cuff: 14cm. Length: 36cm	10	1221	X2XXXX
RAE8815	RAE8815	100% brushed jersey piqué cotton. Palm and back (brushed inside). 15cm canvas cuff. Length: 34cm	9	1221	X1XXXX
955	Thermoplus® 955	Para-aramid, cotton, polyamide, medium knitted, long knit wrist, grey	8 to 10	244X	X1XXXX

Heat protection — Para-aramid

APPLICATIONS

- Metal working and processing
- Metal foundries
- Working arround hot machines

ADVANTAGES

- Excellent heat insulation
- Radiant heat protection up to 1000°C (only Ref. 947 +)
- Leather cuff for additional forearm protection (Ref. 954)

KarboTECT® LL 946

Ref. 946

BrassTec® 947 +

Ref. 947

KarboTECT® 950

Ref. 950

K-TECT 953

Ref. 953

KarboTECT® L 954

Ref. 954

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407	
946	KarboTECT® LL 946	Para-aramid, carbon, wool, heavy knitted, leather trimming on palm, leather cuf, yellow/red. brown/black, 38 to 40 cm	9 to 10	3343	4342XX	
947	BrassTec® 947 +	Para-aramid, cotton, aluminium, silicone, multilayer, cuff, lined, silver/grey, 36 to 38 cm	9 to 11	2423	423444	
950	KarboTECT® 950	Para-aramid, carbon, wool, heavy knitted, knit wrist, yellow/black, 24 to 26 cm	7, 9, 10	1340	4242XX	✓
953	K-TECT 953	Para-aramid, carbon, heavy knitted, knit wrist, yellow, 28 to 32 cm	9 to 10	2440	4242XX	✓
954	KarboTECT® L 954	Para-aramid, carbon, wool, heavy knitted, knit wrist, leather cuf, yellow/red. brown/black, 38 to 40 cm	7, 9, 10	1340	4242XX	✓

Heat protection - 250°C / 350°C

Para-aramid

RECOMMENDATIONS

- Handling of sharp and hot objects in a dry environment. Thermal protection up to 350°C.

APPLICATIONS

- Automotive industry, automotive equipment suppliers.
- Paper industry.
- Glassware.
- Metallurgy and foundry.
- Plastic industry.

ADVANTAGES

- Kevlar® fibres combine good cut resistance with thermal protection.

Aratherma

Aratherma First

Ref. 20 321 00

Aratherma Comfort Fleece

Ref. 20 326 83

Aratherma Fit S

Ref. RGT425

Aratherma Fit

Ref. 22 320 86

Aratherma Comfort

Ref. 20 326 81

Aratherma Terry Fleece

Ref. 20 326 82

CE EN 420

EN 388

EN 407

Ref.	Name	Characteristics	Sizes	Standards	
20 321 00	Aratherma First	Knitted Kevlar®/cotton. Lined knitted cotton glove. Ambidextrous. Length: 26cm	9	134X	X2XXXX
20 326 83	Aratherma Comfort Fleece	Knitted heavy KEVLAR®. Lined cotton knitted glove. Kevlar® fleece cuff (150mm). Ambidextrous. Length: 35cm	One size	143X	43XXXX
RGT425	Aratherma Fit S	Knitted heavy para-aramid. Lined knitted cotton glove. 7cm knitted elasticised wrist	8 to 10	254X	42XXXX
22 320 86	Aratherma Fit	Knitted mediumweight Kevlar®. Lined cotton knitted glove. 10cm Knitted wrist. Ambidextrous. Length: 30cm	7 and 9	254X	43XXXX
20 326 81	Aratherma Comfort	Knitted heavy KEVLAR®. Lined cotton knitted glove. 15cm fireproofed cotton canvas cuff. Ambidextrous. Length: 37cm	9	143X	43XXXX
20 326 82	Aratherma Terry Fleece	Terry cloth KEVLAR®. Kevlar® fleece cuff (100mm). Ambidextrous. Length: 30cm	One size	244x	X1XXXX

Heat protection - 250°C / 350°C

Nomex®/Kevlar®

RECOMMENDATIONS

- Handling of sharp and hot objects in a dry environment. Thermal protection up to 350°C.

APPLICATIONS

- Automotive industry, automotive equipment suppliers.
- Paper industry.
- Glassware.
- Metallurgy and foundry.
- Plastic industry.

ADVANTAGES

- Nomex®/Kevlar® fibres combine good cut resistance with thermal protection.

Aratherma

Aratherma First dots

Ref. RGT8971

Aratherma Comfort CS

Ref. 22 326 88

Aratherma Nomex Light

Ref. 22 320 71

Aratherma Nomex Heavy

Ref. 22 320 70

North Grip N Kevlar® Hot mill

Ref. 52/7457

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
RGT8971	Aratherma First dots	Knitted medium weight cotton, knitted cotton lining. Double face coating of nitrile dots. 10 gauge. Length: 26cm	8 and 10	133X	X2XXXX
22 326 88	Aratherma Comfort CS	Terry cloth Kevlar® against glued fleece cotton. 10cm cuff in heavy twill	9	3443	4342XX
22 320 71	Aratherma Nomex Light	Knitted medium weight Nomex®. Length: 25cm	9	1X4X	X1XXXX
22 320 70	Aratherma Nomex Heavy	Knitted heavy NOMEX®. Lined cotton knitted glove. Ambidextrous. Length: 26.5cm	7 and 9	144X	43XXXX
22 320 72	Aratherma Nomex Heavy	Knitted heavy NOMEX®. Lined cotton knitted glove. Ambidextrous. Length: 34cm	7 and 9	144X	43XXXX
52/7457	North Grip N Kevlar® Hot mill	Knitted medium weight Kevlar®. Double-sided nitrile block coating with knitted cotton lining. 7 gauge. Length: 30cm.	10XL	144X	X2XXXX

Heat protection - 500°C

Para-aramid

Topfire

RECOMMENDATIONS

- Handling hot objects up to 500°C. Short contact with high temperatures.

APPLICATIONS

- Foundry (steel, aluminium...).
- Metallurgy.
- Glassware.
- Removing from a mould .

ADVANTAGES

- The mittens ensure safety in times of excessive heat (easy to remove).
- Topfire Supertherma: excellent compromise between dexterity and protection at high temperatures.

Topfire First

Ref. SVF624

Topfire 40

Ref. SA40620

Topfire Heavy Long

Ref. SB428KK

Topfire Supertherma

Ref. 22 806 73

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
SVF624	Topfire First	Para-aramid terry cloth mitten. Cotton terry liner. Length: 30cm	One size	2533	44XXXX
SA40620	Topfire 40	Para-aramid terry cloth mitten 650g/m², first lining, felt Kermel®, second wool, third jersey fleece. Length: 40cm	One size	2543	44444X
SB428KK	Topfire Heavy Long	Inflammable para-aramid terry cloth Kermel® mitten. First terry cloth cotton lining. second terry cloth cotton lining. Length: 48cm	One size	3543	4443XX
22 806 73	Topfire Supertherma	Kevlar® fleece triple thickness. 13cm cuff in double thickness. Length: 32cm	One size	2524	44413X

Heat protection - 500°C

Meta-aramid

Topfire

RECOMMENDATIONS

- Handling of hot objects for contact temperatures of up to 500°C. Short contact with high temperatures.

APPLICATIONS

- Foundry (steel, aluminium...).
- Metallurgy.

ADVANTAGES

- The mittens ensure safety in times of excessive heat (easy to remove).
- Kermel® fibres offer good resistance to heat and abrasion. The trapping of air between the Kermel® fibres offers better thermal insulation.

Topfire Kermel Light

Ref. 22 011 35

Topfire Kermel

Ref. 22 013 36

Topfire Kermel Long

Ref. SV825

Topfire Kermel 3F

Ref. ZL910K3RK

CE EN 420

EN 388 EN 407

Ref.	Name	Characteristics	Sizes	Standards	
22 011 35	Topfire Kermel Light	Terry cloth Kermel® mittens glued with terry cloth cotton on the other side. Heat resistant split leather cuff: 15cm. Ambidextrous. Length: 36cm	One size	4542	4442XX
22 013 36	Topfire Kermel	Terry cloth Kermal® mitten. Canvas lining. Split leather cuff. Ambidextrous. Length: 37cm	9 to 10	3544	4443XX
SV825	Topfire Kermel Long	Meta-aramid terry cloth mitten First lining wool, second lining: fireproof terry cloth cotton. Length: 35cm	One size	3542	44433X
ZL910K3RK	Topfire Kermel 3F	Three fingered para-aramid terry cloth Kermel® glove lined with terry cloth cotton. Gauze cotton lining. 15cm split cuff. Length: 34cm	One size	4543	44433X

Heat protection - 500°C

Zetex®

RECOMMENDATIONS

- Handling of hot objects for contact temperatures of up to 500°C. Short contact with high temperatures.

Zetex®

APPLICATIONS

- Foundry.
- Metallurgy.

ADVANTAGES

- Latex ensures excellent thermal insulation and excellent mechanical properties.
- The hand, reinforced with PBI, improves fire protection.

Superzetex Mit

Ref. 22 751 12

Zetex RH

Ref. 22 751 20

Zetex LH

Ref. 22 751 21

Superzetex Long

Ref. 22 751 50

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407
22 751 12	Superzetex Mit	Zetex® mitten doubled Kermel® wool. PBI reinforcement. Ambidextrous. Length: 40cm	One size	4543	44444X
22 751 20	Zetex RH	Zetex® right hand. Doubled Nomex® /Kevlar® shield on the palm. Length: 36cm	One size	4542	4443XX
22 751 21	Zetex LH	Zetex® left hand. Doubled Nomex® /Kevlar® shield on the palm. Length: 36cm	One size	4542	4443XX
22 751 50	Superzetex Long	Zetex® mitten doubled Kermel® wool. PBI reinforcement. Ambidextrous. Length: 50cm	One size	4543	44444X

Heat protection - 500°C

Glass fibre

RECOMMENDATIONS

- Handling of hot objects for contact temperatures of up to 500°C.

APPLICATIONS

- Foundry.
- Metallurgy.

ADVANTAGES

- Rubber-clad or silicone-clad glass fibre with good protection against flying smelted metals.
- GBTK 7065: the PVC lining ensures the glove has impermeable properties .

IHR040

Ref. IHR040

IHR540

Ref. IHR540

GBTK 7065

Ref. GBTK7065

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards	
				EN 388	EN 407
IHR040	IHR040	Mitten, rubber-clad and silicone-clad glass fibre, doubled Kevlar® felt, insertion of glass fibre. 20cm cuff in aluminized glass fabric. Ambidextrous. Length: 40cm	One size	2040	44XX34
IHR540	IHR540	Five fingered glove, rubber-clad and silicone-clad glass fibre, doubled Kevlar® felt, insertion of glass fibre, 20cm aluminium-clad glass fibre cuff. Length: 40cm	One size	2040	44XX34
GBTK7065	GBTK 7065	Five fingered glove, knitted in para-aramid terry cloth doubled from a PVC glove. 15cm cuff. Length: 35cm	One size	4543	44XXXX

Cold protection

To insulate yourself against the cold, our thermal protection gloves guarantees superior insulation in situations of extreme cold.

Cold/Winter

RECOMMENDATIONS

- Gloves for protection against the cold.

APPLICATIONS

- Handling of fresh or frozen products and working in frozen warehouses.
- General handling on a cold environment, outside works, road maintenance.
- Logistics: forklift operators and conductors.

ADVANTAGES

- SOFRACOLD: seamless knitted gloves offer comfort and flexibility and avoid irritations. Can be used as liner gloves.
- WINTER PRO is an all-weather protective glove, rain, wind, snow and salt and chemical resistant.

Up & Down I Viz

Ref. 22 320 23

Sofracold Grip

Ref. 22 320 37

Sofracold

Ref. 22 321 01

Cold Grip

Ref. NF11HD

Cold Grip Plus 5

Ref. NFD11HD

New

Winter Pro

Ref. 20 064 33

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards			
				EN 388	EN 374-2	EN 511	EN 407
22 320 23	Up & Down I Viz	Knitted heavy acrylic. Crinkled 3/4 Latex coating.	7 to 11	2231		020	X2XXXX
22 320 37	Sofracold Grip	Knitted lightweight thermastat/blue Lycra®. PVC dots on the palm.	9	213X			
22 321 01	Sofracold	Knitted lightweight thermastat/blue Lycra®	One size	Minor risks			
NF11HD	Cold Grip	Knitted blue polyamide. Brushed winter liner. Black foam 3/4 PVC coating	9L-10XL-11XXL	2232		x2x	
NFD11HD	Cold Grip Plus 5	Knitted lightweight highly cut-resistant fibre blend outer shell. Brushed acrylic thermal inner. ¾ PVC HPT coating. Length: 26cm	7 to 11	3532		020	
20 064 33	Winter Pro	PVC (1.4mm) on knitted support on seamless wool terry cloth. Pattern finish	8 and 10	4221	✓	121	

Cold protection

Leather

RECOMMENDATIONS

- Gloves for protection against the cold.

APPLICATIONS

- Handling of fresh or frozen products and working in frozen warehouses.
- General handling on a cold environment, outside works, road maintenance.
- Logistics: forklift operators and conductors.

ADVANTAGES

- Double leather gloves made from insulating materials ensures protection whilst remaining elegant.

Cold/Winter

Deerfit range

Ref. 20 016 10

Deerfit Lux

Ref. 20 016 15

Winter Proof Driver

Ref. 20 016 17

Arctic

Ref. 1640YC

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards EN 388	EN 511
20 016 10	Deerfit	Palm yellow water-repellent suede leather, reverse velour, doubled Thinsulate	7 to 11	2X2X	120
20 016 15	Deerfit Lux	Black sanded suede leather, doubled Thinsulate	7 to 11	Minor risks	
20 016 17	Winter Proof Driver	Black water-repellent acrylic cowhide grain leather	7 to 11	3122	
1640YC	Arctic	Beige water-repellent goat skin grain leather cured with “Scotchgard®”, 10cm cuff, fake fur lining. Elastic on reverse	8 to 11	3221	120

Cold protection

Nitrile and not coated

APPLICATIONS

- Working and operating machines in cold environment
- Storage and packaging
- Metalworking and mechanical engineering
- Construction industry

ADVANTAGES

- Short-term cold protection down to -20°C

Cold/Winter

Nitrile

DiraCold® 302

Ref. 302

Worktril® W 315

Ref. 315

Not coated

RewoCold® 644

Ref. 644

CE EN 420

EN 388

Ref.	Name	Characteristics	Sizes	Standards
302	DiraCold® 302	Nitrile coated fabric, fleece inlay, canvas cuff, knuckle protection fleece inlay, cream, 26 to 28 cm	9 to 12	2111
315	Worktril® W 315	Nitrile coated fabric, fleece inlay, canvas cuff, palm coated, brown, 26 to 28 cm	8 to 11	3111
644	RewoCold® 644	Artificial leather palm, moisture barrier, insulation inlay for cold, cuff, grey, 25 to 31 cm	6 to 12	2132

Cold protection

Nitrile / PVC / Natural latex / Thinsulate

APPLICATIONS

- Transportation and logistics
- Police and security services
- Airport cargo/baggage handling (Ref. 692/691)
- Working and operating machines in cold environment

ADVANTAGES

- Sure grip for wet parts due to surface structure
- Approved for food handling (Ref. 691)

Cold/Winter

Thinsulate

Ice Grip 691

Ref. 691

PVC

Cama Iso 690 +

Ref. 690

Natural Latex

StoneGrip 692

Ref. 692

Nitrile

TeboCold 693

Ref. 693

Deep Blue Winter

New

Ref. 22 995 00

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 511
691	Ice Grip 691	Thinsulate, PVC, Nylon, 300mm, blue, 28 to 33 cm	7 to 11	2121	120
693	TeboCold 693	Thinsulate, PVC Polyamide, Polyester, cuff with Velcro fastener, fine profile, black, 28 to 32 cm	8 to 11	2221	220
690	Cama Iso 690 +	PVC coated fleece inlay, cuff, fully coated, roughened, reddish brown, 29 to 31 cm	9 to 10	3221	121
692	StoneGrip 692	Acrylic, cotton liner, terry loop, knitted cuff, natural latex palm coated, roughened, black, 26 to 28 cm	8 to 11	2141	X2X
22 995 00	Deep Blue Winter	Knitted polyamide & polar fleece - Fully dipped nitrile foam	7 to 11	4121	X1X

Chemical protection

Due to the properties of various materials (Latex, nitrile, neoprene and butyl), we have developed gloves which protect from all levels of chemical hazard (penetration, degradation, permeation). KCL expertise in this domain helps to reinforce the recommendation of chemical gloves for increased user protection.

RECOMMENDATIONS

- Protection of hands and objects. Single use gloves.

APPLICATIONS

- Food preparation.
- Laboratory works.
- Manufacturing and presentation of cosmetics.
- Common hospital duties.
- Assembly of small objects.

ADVANTAGES

- AQL 1.5 and food handling certified: guarantees a high level of quality and contact with foodstuffs (non-damaging to health. Glove components do not migrate towards food).
- Ref. 537 et 758 : applies to those allergic to Latex.
- Very fine touch.

Nitrile

Dexpure range

SoraClean® 758

Ref. 758

Latex

Dexpure range

Vinyl

Nimm-den 537

Ref. 537

CE EN 420

EN 374-2

Ref.	Name	Characteristics	Sizes	Standards		Others Standards
45 800 81	DexPure 800-81	Nitrile, blue, non powdered. AQL 1.5	S to XL	✓	✓	
45 800 91	DexPure 800-91	Nitrile, blue, powdered. AQL 1.5	S to XL	✓	✓	
45 801 95	DexPure 801-95	Heavy blue nitrile, non powdered. AQL 1.5	7 to 10	✓	✓	
45 800 21	DexPure 800-21	Latex, natural, powdered. AQL 1.5	S to XL	✓	✓	
758	SoraClean® 758	Nitrile, rolled edge, powderfree, roughened fingertips, 240mm, 200 pcs, blue, thickness 0,07 mm	6 to 10		✓	
45 801 21	DexPure 801-21	Latex, natural, non powdered. AQL 1.5	S to XL	✓	✓	EN 455
45 801 30	DexPure 801-30	Heavy blue Latex, non powdered. AQL 1.5	7 to 10	✓	✓	
537	Nimm-den 537	Natural Vinyl, rolled edge, powderfree, transparent, thickness 0,15 mm	7 to 10			

Chemical protection

PVC/nitrile

RECOMMENDATIONS

- Light chemical protection.

APPLICATIONS

- Handling of fruit and vegetables, poultry and fish.
- Handling of detergents and cleaning liquids.
- Masonry.
- Aeronautical maintenance.
- Handling of frozen products.

ADVANTAGES

- Very supple, offers good mechanical resistance. Unrivalled comfort and dexterity for products with flocked/chlorinated products.

Light chemical protection

PVC

507620

Ref. 50 76 20

Polyvinylsoft

Ref. 20 098 10

Nitrile

Finedex 953-20 Nitrasoft

Ref. 20 953 20

CE EN 420

Ref.	Name	Characteristics	Sizes		Standards		
					EN 388	EN 374-2	EN 374-3
50 76 20	507620	Chlorinated PVC. Black glove 32cm, transparent cuff 45cm. Thickness: 0.65mm Flocked glove interior, chlorinated interior cuff.	8.5 to 10.5	2100	✓		
20 098 10	Polyvinylsoft	Blue PVC, flocked interior, patterned palm. Thickness: 0.5mm. Length: 33cm	7 to 10	3XXX	✓		
20 953 20	Finedex 953-20 Nitrasoft	Blue nitrile, chlorinated interior, diamond pattern. 0.3mm length: 33cm	7 to 10	2001		JKL	✓

Chemical protection — Latex

RECOMMENDATIONS

- Light chemical protection.

APPLICATIONS

- Handling of fruit and vegetables, poultry and fish.
- Handling of detergents and cleaning liquids.
- Masonry.
- Aeronautical maintenance.
- Handling of frozen products.

ADVANTAGES

- Very supple, offers good mechanical resistance. Unrivalled comfort and dexterity for products with knitted/flocked products.

Finedex 944-32 Fisherman

Ref. 20 944 32

Clean Yellow

Ref. 20 944 01

Finedex 944-31

Ref. 20 944 31

Blue jersey grip

Ref. 20 944 21

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 407	EN 374-2	
20 944 32	Finedex 944-32 FISHERMAN	Natural orange Latex, polyamide knitted liner, crinkled pattern. Thickness: 1.3mm. Length: 30cm	7 to 11	4231	X2XXXX	✓	✓
20 944 01	Clean yellow	Yellow Latex glove, cotton flocked, diamond pattern. Thickness: 0.4mm. Length: 30cm	6 to 10	X010		✓	EN 421
20 944 31	Finedex 944-31	Natural grey Latex, knitted polyamide support, patterned finish. Thickness: 1.1mm. Length: 30cm	7 to 11	3131		✓	
20 944 21	Blue jersey grip	Natural blue Latex, interlock cotton support, patterned finish. Thickness: 1.5mm. Length: 30cm	6 to 11	2121		✓	✓

Chemical protection

Nitrile

RECOMMENDATIONS

- High performance chemical protection (oils, detergents, certain solvents).

APPLICATIONS

- Degreasing of metals (solvents) in the automotive and aeronautic industry.
- Machining of parts in the presence of cutting oils.
- Manufacturing and application of paints and varnishes.
- Cleaning of printing rolls.

ADVANTAGES

- The nitrile formulation was chosen for its mechanical resistance, its flexibility, and its resistance to a great number of chemical products.

PowerCoat diamond finish

PowerCoat 953-03 Nitraf

Ref. 20 953 01

Nitri knit

Nitri Knit

Ref. NK 803

Nitri Knit

Ref. NK 804

Nitri Knit Plus

Ref. NK 850

CE EN 420

Ref.	Name	Characteristics	Sizes	Standards (EN 388)	Standards (EN 374-3)
20 948 31	PowerCoat 948-31 Nitraf	Green nitrile, flocked cotton, patterned finish. Thickness: 0.5mm. Length: 33cm	7 to 10	3101	JKL
20 953 01	PowerCoat 953-01 Nitraf	Green nitrile, cotton flocked, diamond pattern. Thickness: 0.46mm. Length: 33cm	7 to 11	4101	JKL
20 953 03	PowerCoat 953-03 Nitraf	Green nitrile, cotton flocked, diamond pattern. Thickness: 0.52mm. Length: 41cm	8 to 10	4101	JKL
20 953 04	PowerCoat 953-04 Nitraf	Green nitrile, chlorinated interior, diamond pattern. Thickness: 0.6mm. Length: 45cm	8 to 11	4101	JKL
NK803	Nitri Knit	Blue nitrile. Interlock cotton lining. Length: 30cm	7 to 10	3121	JKL
NK804	Nitri Knit	Blue nitrile. Interlock cotton lining. Length: 35cm	7 to 10	3111	JKL
NK850	Nitri Knit Plus	Green nitrile. Seamless interlock lining. Length: 30cm	7 to 11	3142	AJK

Chemical protection

Nitrile

APPLICATIONS

- Handling of chemical contaminated heavy parts
- Handling of hot/cold parts with chemical contamination (especially Ref. 738, 739),
- Requirement of cut and chemical protection (Ref. 836)

ADVANTAGES

- AQL < 0.65
- Broad chemical resistance
- Cotton / para-aramid/wool liner is fixed into the glove after producing a chemical layer to ensure maximum protection (Ref. 736, 737, 738, 739, 836)
- Seamless liner
- Wide list of chemical permeation details available

Tricotril®

Tricotril® 736

Ref. 736

Tricotril® 737

Ref. 737

Tricotril® Winter 738

Ref. 738

Tricotril® Winter 739

Ref. 739

Tricotril® K 836

Ref. 836

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-3	EN 374	EN 407	
				Standards				
736	Tricotril® 736	Nitrile, cotton lined, 300mm, green, thickness 1,5 mm	8 to 11	3121	AJL	✓		✓
737	Tricotril® 737	Nitrile, cotton lined, 400mm, green, thickness 1,5 mm	7 to 11	3121	AJL	✓		✓
738	Tricotril® Winter 738	Nitrile, wool lined, 300mm, green, thickness 2 mm	8 to 11	3121	AJL	✓	X1XXXX	✓
739	Tricotril® Winter 739	Nitrile, wool lined, 400mm, green, thickness 2 mm	8 to 11	3121	AJL	✓	X1XXXX	✓
836	Tricotril® K 836	Nitrile, para-aramid lined, 300mm, green, thickness 1,7 mm	8 to 11	3332	AJL	✓		✓

Chemical protection — Nitrile

APPLICATIONS

- Wide range of chemical tasks in most industries
- Petrochemistry and printing industry
- Working with Epoxy resin e.g. wind energy
- Automotive and aircraft/aerospace industry
- Spray gun painting

ADVANTAGES

- AQL < 0.65
- Good resistance against a variety of hazardous substance groups
- Very good flexibility and high wearing comfort
- Wide list of chemical permeation details available
- Ref. 733 offer full chemical protection from fingertip to shoulder
- Silicone-free and lacquer indifferent according automotive standard

Camatril®

Camatril® 730

Ref. 730

Camatril® 732

Ref. 732

Camatril® 733

Ref. 733

VeroChem® 754

Ref. 754

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-3	EN 374	
				Standards			
730	Camatril® 730	Nitrile, roughened palm, cotton flocked, 310mm, green, thickness 0,4 mm	7 to 11	3001	AJL	✓	✓
732	Camatril® 732	Nitrile, roughened palm, cotton flocked, 400mm, green, thickness 0,4 mm	7 to 11	3001	AJL	✓	✓
733	Camatril® 733	Nitrile, roughened palm, 600mm, green, thickness 0,5 mm	8 to 11	3102	AJL	✓	
754	VeroChem® 754	Nitrile, roughened, cotton flocked, 300mm, blue, thickness 0,28 mm	7 to 11	2001	JKL	✓	✓

APPLICATIONS

- Laboratory and operations with light to heavy chemical contact requiring maximum dexterity
- Pharmaceutical industry
- Handling of foodstuffs
- Product protection
- Clean Room opperations (Ref. 742)

ADVANTAGES

- AQL < 0.65 (740, 741, 742, 743); AQL < 1.5 (759)
- Very good flexibility and tactile sensation; very comfortable to wear
- Ref. 743 full chemical protective disposable glove
- Wide list of chemical permeation details available
- Ref. 743: packed by 10 pcs as Ref. 746
- Long cuff on Ref. 741, 743 (280mm)
- Ref. 759 offers a length of 400mm
- Ref. 742: CleanRoom Class 100 certified
- Meet the requirements of EN 455 / medical product according to guideline 93/42/EWG (not 759)

Dermatril®

Dermatril® 740

Ref. 740

Dermatril® L 741

Ref. 741

Dermatril® LR 742

Ref. 742

Dermatril® P 743

Ref. 743

SivoChem® 759

Ref. 759

CE EN 420

EN 374-2 | EN 374 | EN 374-3

Ref.	Name	Characteristics	Sizes					Others Standards
740	Dermatril® 740	Nitrile, rolled edge, roughened fingertips, powderfree, 240mm, 100 pcs, blue, thickness 0,11 mm	6 to 11	✓	✓	-	✓	EN 455
741	Dermatril® L 741	Nitrile, rolled edge, roughened fingertips, powderfree, 280mm, 100 pcs, blue, thickness 0,11 mm	7 to 11	✓	✓	-	✓	EN 455
742	Dermatril® LR 742	Nitrile, rolled edge, roughened fingertips, powderfree, 280mm, 50 pcs, Cleanroom class 100, blue, thickness 0,11 mm	7 to 11	✓	✓	ISO 14644-1 ASTM F 1671:2007		EN 455
743	Dermatril® P 743	Nitrile, rolled edge, Thickness 0.2mm, 280mm, 50 pcs, blue	6 to 11	✓	✓	JKL	✓	EN 455
759	SivoChem® 759	Nitrile, rolled edge, powder free, 400mm, 40 pcs, blue, thickness 0,16 mm	7 to 10	✓	✓	-		

Chemical protection — Neoprene

RECOMMENDATIONS

- Neoprene offers great chemical and mechanical resistance. It resists acids, bases and solvents as well as industrial adhesives.

APPLICATIONS

- Chemical industry.
- Agriculture (use of fertilizers), fish agriculture.
- Treatment and degreasing of metal, grinding, decontamination.
- Transmission (automotive industry).
- Surface metal treatment (galvanisation).

ADVANTAGES

- Very supple, versatile protection.

PowerCoat

PowerCoat 950-20 NEOFIT

Ref. 20 950 20

PowerCoat 950-30 NEOFIT

Ref. 20 950 30

Chemical protection — Nitrile/chloroprene

APPLICATIONS

- Chemical and pharmaceutical industry
- Emergency services and civil protection

ADVANTAGES

- High resistance against a variety of hazardous substance groups
- Two chemical protective layers
- Wide list of chemical permeation details available
- AQL < 0.65

NitoPren® 717

Ref. 717

NitoPren®

Honeywell

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-3	EN 374
20 950 20	PowerCoat 950-20 NEOFIT	Black neoprene, flocked cotton, diamond pattern. Thickness: 0.72mm. Length: 33cm	7 to 11	3110	AKL	
20 950 30	PowerCoat 950-30 NEOFIT	Double coated neoprene, interlock cotton, grainy finish. Thickness: 1.1mm. Length: 30cm	7 to 10	3121	AKL	
717	NitoPren® 717	Nitrile, chloroprene multilayer system, cuff, flock lined, black, green, 310 mm, thickness 0,65 mm	7 to 11	2001	AJL	✓

APPLICATIONS

- Wide range of chemical tasks in most industries
- Automotive industry
- Galvanising works

ADVANTAGES

- AQL < 0.65
- Good resistance against a variety of hazardous substance groups
- Very good flexibility and very comfortable to wear
- Detailed list of chemical permeation details available
- Good grip when handling greasy and oily objects
- High flexibility in hot and cold environments
- Ref. 723, 725: Cotton liner is fixed into the glove after producing the chemical layer to ensure maximum protection

Camapren® 720

Ref. 720

Camapren® 722

Ref. 722

Tricopren® 723

Ref. 723

Tricopren® 725

Ref. 725

Camapren® 726

Ref. 726

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-3	EN 374	Others Standards
720	Camapren® 720	Chloroprene, cuff, surface profile, flock lined, black, 300mm, Thickness 0,65 mm	7 to 11	1111	AKL	✓	
722	Camapren® 722	Chloroprene, cuff, surface profile, flock lined, red, 300mm, Thickness 0,6 mm	7 to 11	1111	AKL	✓	EN 421
723	Tricopren® 723	Chloroprene, seamless cotton liner cuff, fully coated, palm profile, grey, 300mm, grey, Thickness 1,3 mm	8 to 11	2121	AKL	✓	
725	Tricopren® 725	Chloroprene, seamless cotton liner cuff, fully coated, palm profile, 400mm, grey, Thickness 1,3 mm	8 to 11	2121	AKL	✓	
726	Camapren® 726	Chloroprene, cuff, surface profile, flock lined, 400mm, black, Thickness 0,65 mm	8 to 11	1111	AKL	✓	

Chemical protection

Butyl / EVOH

APPLICATIONS

- Wide range of chemical tasks in most industries for contact with extremely dangerous materials
- Automotive industry
- Printing industry
- Galvanising works
- Manufacturing of chemicals
- Recycling and waste disposal
- Emergency services and civil protection

ADVANTAGES

- Very good protection against extremely aggressive and toxic chemicals
- Very high gas tightness
- Solvent-free by eco-friendly injection moulding process (Ref. 890, 898)
- AQL < 0.65 (Ref. 890, 897+, 898)

Silvershield gloves

Ref. SSG

PowerCoat 080-10 Butyl

Ref. 20 080 10

Butyl

Ref. B131

Butyl

Ref. B131R

Silvershield sleeves

Ref. SSS

Butoject® 897+

Ref. 897+

Honeywell KCL

Butoject® 898

Ref. 898

Honeywell KCL

Vitoject® 890

Ref. 890

Honeywell KCL

CE EN 420

Ref.	Name	Characteristics	Sizes		Standards	EN 388	EN 374-3	EN 374	Others Standards
B131	B131	Smooth finish. Length: 28cm, thick: 0.33mm	7 to 10	2010					
B174	B174	Smooth finish. Length: 35cm, thick: 0.43mm	8 to 10	2010					
B324	B324	Smooth finish. Length: 35cm, thick: 0.81mm	8 to 10	2010				✓	
B131R	B131R	Rough finish. Length: 28cm, thick: 0.33mm	7 to 10	2010					
897+	Butoject® 897+	Butyl roughened, rolled edge, 350mm, black, thickness 0,47 mm	7 to 11	2010	BCI		✓		EN 16350
898	Butoject® 898	Butyl smooth, rolled edge, 350mm, black, thickness 0,7 mm	8 to 11	0010	BCI		✓		EN 421
20 080 10	PowerCoat 080-10 Butyl	Black butyl, smooth interior, rolled edge. Th: 0,5mm. Length: 35cm	8 to 11	2111	BKL				
890	Vitoject® 890	Viton smooth, rolled edge, 350mm, black, thickness 0,7 mm	8 to 11	3101	DFG		✓		
SSG	Silvershield gloves	Five-layer PE and EVOH laminate	6 to 11	1000	AHL				
SSS	Silvershield sleeves	Five-layer PE and EVOH laminate	6 to 11	1000	AHL				

Chemical protection

PVC

RECOMMENDATIONS

- Special PVC hydrocarbons offer excellent protection against oils, alkalis, saline solutions and acids.

APPLICATIONS

- Handling operations in the presence of petroleum products.
- Immersion in cutting oils, bases, and acids.

ADVANTAGES

- Excellent resistance to hydrocarbons thanks to European quality PVC.
- Category III gloves, certified in accordance with the new EN 374-2003 standard. Follow-up 11A to ensure follow-up quality.

Trawler King - 830FWG

Ref. 830FWG

Trawler King - 850FWG

Ref. 850FWG

Deckhand - T1412WG

Ref. T1412WG

ProChem - T1612WG

Ref. T1412WG

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-3
830FWG	Trawler King - 830FWG	Green PVC glove dipped on cotton liner Rough finish. Thickness: 1.6mm. Length: 27cm	8M, 9L, 10XL	4121	AKL
850FWG	Trawler King - 850FWG	Green PVC glove dipped on cotton liner Rough finish. Thickness: 1.6mm. Length: 35cm	8M, 9L, 10XL	4121	AKL
860FWG	Trawler King - 860FWG	Green PVC glove dipped on cotton liner Rough finish. Thickness: 1.6mm. Length: 40cm	8M, 9L, 10XL	4121	AKL
T1412WG	Deckhand - T1412WG	Red PVC glove dipped on cotton liner Rough finish. Thickness: 1.4mm. Length: 30cm	8M, 9L, 10XL, 11XXL	4121	AKL
T1612WG	ProChem - T1612WG	Blue PVC glove dipped on cotton liner Rough finish Thickness: 1.4mm. Length: 30cm	8M, 9L, 10XL, 11XXL	4121	AKL

Chemical protection — PVC

RECOMMENDATIONS

- Multi-use chemical protection in greasy or oily environments.

APPLICATIONS

- Handling in aggressive environments: oily, greasy, chemical products, hydrocarbons.
- Chemical and petrochemical industry.

ADVANTAGES

- Excellent European quality PVC resistance.
- Pre-formed fingers for greater ergonomy.
- Category III gloves, certified in accordance with the new EN 374-2003 standard. Follow-up 11A to ensure follow-up quality.

Redcote Plus R30X

Ref. R30X

Redcote Plus R50X

Ref. R50X

Redcote Plus R60X

Ref. R60X

Redgrip KN 27G

Ref. 20 063 30

Chemical protection — Latex/nitrile

RECOMMENDATIONS

- Handling in clean-room environments.
- Clean rooms, pharmaceutical industry.

APPLICATIONS

- Clean rooms, pharmaceutical industry.

ADVANTAGES

- Packed in clean rooms to avoid all atmospheric contamination.
- Low in extractive particles and materials.
- Size embossed on the glove to avoid all risk of ink contamination.

AK

Ref. AK1815O

Chemsoft

Ref. CE412W

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-2	EN 374-3
R30X	Redcote Plus R30X	Red PVC glove Dipped on cotton liner Smooth finish. Thickness: 1.4mm. Length: 27cm	9L, 10XL	4121		AKL
R50X	Redcote Plus R50X	Red PVC glove Dipped on cotton liner Smooth finish. Thickness: 1.4mm. Length: 35cm	9L, 10XL	4121		AKL
R60X	Redcote Plus R50X	Red PVC glove Dipped on cotton liner Smooth finish. Thickness: 1.4mm. Length: 40cm	9L, 10XL	4121		AKL
20 063 30	Redgrip KN 27G	Red PVC, knitted support, rough finish. Thickness: 1.4mm. Length: 27cm	7 to 11	3121		✓
AK1815O	AK	Natural Latex, non powdered, patterned finish. Thickness: 0.50mm. Length: 38cm	8M to 11XXL	2110		AKL
CE412W	Chemsoft	Nitrile, white, non powdered. Thickness: 0.12mm. Length: 30cm	7S to 11XL		✓	

Chemical protection

Latex

APPLICATIONS

- Handling of acids and alkalis
- Laboratory work
- Galvanising works
- Cleaning with high concentrated cleaning agents
- Food, beverage industry (Ref. 450, 451)
- Construction industry

ADVANTAGES

- AQL < 0.65 (Ref. 395, 403, 706, 708)
- AQL < 1.5 (Ref. 450+, 451+)
- Excellent low temperature flexibility
- Wide cuff for putting on and taking off quickly. (Ref. 395, 403)
- Wide list of chemical permeation details available
- Good grip when handling wet parts
- Glove surface free from silicone (lacquer indifference, test method automotive industry) (Ref. 706, 708)
- Good grip when handling wet parts
- Good low temperature flexibility
- Powercoat 950-10 Mix Color: Double dipping ensures a superior level of chemical and mechanical protection. Flocked cotton interior improves comfort.
- Powercoat 944-05 Black Fit: Latex offers excellent flexibility and good dexterity.

Combi-Latex 395

Ref. 395

Camatex 451+

Ref. 451

Lapren® 706

Ref. 706

Cama Clean 708

Ref. 708

PowerCoat 950-10 Mix-Color

Ref. 20 950 10

CE EN 420

Ref.	Name	Characteristics	Sizes	EN 388	EN 374-2	EN 374	EN 374-3	Others Standards
395	Combi-Latex 395	Natural Latex, cuff, roughened, cream, 400mm, Thickness 1 mm	9 to 11	113X	✓	✓	BKL	
403	Combi-Latex 403	Natural Latex, long cuff, roughened, cream, 600mm, Thickness 1 mm	9 to 11	111X	✓	✓	BKL	
450	Camatex 450+	Natural Latex coated cotton liner, fully coated, cuff, smooth, blue, 300 mm, Thickness 1,38 mm	7; 9-11	3131	✓	✓		
451	Camatex 451+	Natural Latex coated cotton liner, fully coated, cuff, roughened, blue, 300 mm, Thickness 1,38 mm	7 to 11	2131	✓	✓		
706	Lapren® 706	Natural Latex, stretched cuff, profiled palm surface, flock lined, green, 310 mm, Thickness 0,6 mm	7 to 10	2020	✓	✓	-	
708	Cama Clean 708	Natural Latex, long cuff, roughened, flock lined, white, 400mm, Thickness 0,5 mm	7 to 10	X010	✓	✓		EN421
20 950 10	PowerCoat 950-10 Mix-Color	Natural Latex/ blue/yellow neoprene, flocked cotton, diamond finish. Thickness: 0.7mm. Length: 32cm	7 to 10	4111			AKL	

Gloves from glove box

With more than 50 years' experience in the manufacturing of gloves for glove boxes, we now present you with an extended range based on diverse materials (CSM, nitrile, butyl neoprene) or on a mix of materials (CSM/neoprene), in order to protect you from bacteriologic and nuclear risks, amongst others.

Nitribox

APPLICATIONS

- Working in glove boxes in the pharmaceutical, biotechnology and semi-conductor sectors.

ADVANTAGES

- Comfort: this glove is 30% lighter than a comparable Hypalon glove
- Mechanical protection: Mechanical resistance, namely tear resistance, are superior to what most other materials offer.
- Chemical resistance: Nitrile offers good protection with regard to bases, acids, alcohols and numerous esters and solvents.
- Antistatic properties: Its superficial resistance of 10^{11} ohms/squared makes it more antistatic than neoprene and Hypalon.

Neoprene

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductor and nuclear sectors.

ADVANTAGES

- Manufacturing in superior quality steam-rolled neoprene gives it strong resistance to vapour and gas permeation.
- Resists a large range of chemical products, namely oils, grease, combustibles and acetone.
- Its good lengthening ability gives it great flexibility.
- Great resistance to abrasion and tears.

CE EN 420

EN 388 EN 374-3 EN 374-2

Ref.	Characteristics	Sizes	Standards		Other standards
Nitribox					
8LA1832A	Nitrile. Length: 81cm. Thickness: 0.51mm. Diameter: 203mm. Ambidextrous	9Q	4102	JKL	✓
10LA1832A	Nitrile. Length: 81cm. Thickness: 0.51mm. Diameter: 254mm. Ambidextrous	10H	4102	JKL	✓
Neoprene					
5N1532	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Anatomical	9Q	3101	ABL	✓
5N1532A	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Ambidextrous	9Q	3101	ABL	✓
6N1532	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 152mm. Anatomical	8H 9Q 10H	3101	ABL	✓
6N1532A	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 152mm. Ambidextrous	9Q 10H	3101	ABL	✓
7N1532	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Anatomical	9Q	3101	ABL	✓
7N1532A	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Ambidextrous	8H 9Q 10H	3101	ABL	✓
8N1532	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Anatomical	8H 9Q 10H	3101	ABL	✓
8N1532A	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Ambidextrous	9Q 10H	3101	ABL	✓
10N1532A	Neoprene. Length: 81cm. Thickness: 0.38mm. Diameter: 254mm. Ambidextrous	9Q	3101	ABL	✓
5N3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical	9Q	4112	ABL	✓
5N3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Ambidextrous	9Q	4112	ABL	✓
6N3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 152mm. Anatomical	9Q 10H	4112	ABL	✓
6N3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 152mm. Ambidextrous	9Q 10H	4112	ABL	✓
7N3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical	9Q	4112	ABL	✓
7N3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Ambidextrous	8H 9Q	4112	ABL	✓
8N3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical	8H 9Q 10H	4112	ABL	✓
8N3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous	9Q 10H	4112	ABL	✓
10N3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 254mm. Ambidextrous	9Q	4112	ABL	✓

Gloves from glove box

CSM/Neoprene

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductor, nuclear, defence and manufacturing sectors.

ADVANTAGES

- The neoprene layer offers strong resistance to vapour and gas permeation as well as good resistance to oils, combustibles and acetone.
- The external CSM layer offers exceptional resistance to the ozone and to oxidizing agents such as alcohols, alkalis and acids. Equally very resistant to ultraviolet rays, whether under artificial or natural light. This makes it more antistatic than neoprene and Hypalon.

CSM

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductors, nuclear sectors, defence and manufacturing sectors.

ADVANTAGES

- CSM offers exceptional resistance to the ozone and to oxidizing agents such as alcohols, alkalis and acids. Equally resistant to ultraviolet rays, whether under artificial or natural light.
- Soft and natural touch for better comfort.
- Great resistance to abrasion and tears.

CE EN 420

Ref.	Characteristics	Sizes	EN 388	EN 374-3	EN 374-2 Other standards
CSM / Neoprene					
8NY3032	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical	8H 9Q 10H	4111	ABL	✓
8NY3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous	9Q 10H	4111	ABL	✓
7NY3032	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical	9Q	4111	ABL	✓
7NY3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Ambidextrous	8H 9Q 10H	4111	ABL	✓
5NY3032	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical	9Q	4111	ABL	✓
5NY3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Ambidextrous	9Q	4111	ABL	✓
CSM					
5Y1532	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Anatomical	9Q	4111	AKL	✓
5Y1532A	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Ambidextrous	9Q	4111	AKL	✓
7Y1532	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Anatomical	9Q	4111	AKL	✓
7Y1532A	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Ambidextrous	8H 9Q 10H	4111	AKL	✓
8Y1532	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Anatomical	8H 9Q 10H	4111	AKL	✓
8Y1532A	CSM. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Ambidextrous	8H 9Q 10H	4111	AKL	✓
5Y3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical	9Q	4111	AKL	✓
7Y3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical	9Q	4111	AKL	✓
8Y3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical	8H 9Q 10H	4111	AKL	✓
8Y3032A	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous	8H 9Q 10H	4111	AKL	✓

Gloves from glove box — Butyl

APPLICATIONS

- Working with glove boxes in the pharmaceutical sectors, biotechnology, semi-conductor and nuclear sectors. Ideal for handling highly toxic chemical substances.

ADVANTAGES

- Butyl offers optimum resistance vapour and gas permeation, as well as exceptional resistance to a large range of toxic chemical products.
- Great resistance to ketones (MEK, MIBK and acetone) and esters (tricresyl phosphate, amyl acetate, and ethyl acetate).
- Butyl offers a soft and supple feeling, even at low temperatures, which decreases hand fatigue and increases user comfort. This makes it more antistatic than neoprene or Hypalon.

Butyl

CE EN 420

Ref.	Characteristics	Sizes	EN 388	EN 374-3	EN 374-2
8B1532	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Anatomical	8H 9Q 10H	3011	BCI	✓
8B1532A	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 203mm. Ambidextrous	9Q 10H	3011	BCI	✓
7B1532	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Anatomical	9Q	3011	BCI	✓
7B1532A	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 178mm. Ambidextrous	8H 9Q 10H	3011	BCI	✓
5B1532	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Anatomical	9Q	3011	BCI	✓
5B1532A	Butyl. Length: 81cm. Thickness: 0.38mm. Diameter: 127mm. Ambidextrous	9Q	3011	BCI	✓
8B3032	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical	8H 9Q 10H	3011	BCI	✓
8B3032A	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous	9Q 10H	3011	BCI	✓
7B3032	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical	9Q	3011	BCI	✓
7B3032A	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Ambidextrous	8H 9Q	3011	BCI	✓
5B3032	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical	9Q	3011	BCI	✓
5B3032A	Butyl. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Ambidextrous	9Q	3011	BCI	✓

Gloves from lead glove box

CSM

APPLICATIONS

- Working with glove boxes in the nuclear and defence sectors.

ADVANTAGES

- 0.1mm lead equivalent to attenuate weak intensity gamma radiation.
- The layers of (orange) lead load and CSM of distinct colours allow us to see all damage to the glove or its excessive wear and tear.

Neoprene

APPLICATIONS

- Handling in glove boxes in the pharmaceutical, biotechnology, semi-conductor and nuclear sectors.

ADVANTAGES

- 0.1mm lead equivalent to attenuate weak intensity gamma radiation.
- The layers of (orange) lead load and neoprene of distinct colours allows us to see all damage to the glove or excessive wear and tear.

CE EN 420

Ref.	Characteristics	Sizes	Standards		Other standards	
			EN 388	EN 374-3	EN 374-2	
CSM						
8YLY3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical. Presence of lead.	8H 9Q 10H	4121	AKL	✓	✓
8YLY3032A	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous. Presence of lead.	9Q 10H	4121	AKL	✓	✓
7YLY3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical. Presence of lead.	9Q	4121	AKL	✓	✓
7YLY3032A	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Ambidextrous. Presence of lead.	9Q	4121	AKL	✓	✓
5YLY3032	CSM. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical. Presence of lead.	9Q	4121	AKL	✓	✓
Neoprene						
8NLL3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical. Presence of lead.	8H 9Q 10H	4101	ABL	✓	✓
8NLL3032A	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous. Presence of lead.	9Q 10H	4101	ABL	✓	✓
7NLL3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomic. Presence of lead.	9Q	4101	ABL	✓	✓
5NLL3032	Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Anatomical. Presence of lead.	9Q	4101	ABL	✓	✓

Gloves from lead glove compartments and short insulating gloves

CSM/Neoprene

APPLICATIONS

- Working with glove boxes in the nuclear and defence sectors.

ADVANTAGES

- 0.1mm lead equivalent to attenuate weak intensity gamma radiation.
- The white surface in CSM shows up every contamination and is easy to clean. The layers of (orange) lead load, neoprene and Hypalon of distinct colours allows us to see all damage to the glove or excessive wear and tear.

Short CSM insulating glove

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductor and nuclear sectors.

ADVANTAGES

- CSM offers exceptional resistance to ozone and to oxidizing agents such as alcohols, alkalis and acids.
- Equally very resistant to ultraviolet rays, whether under artificial or natural light.
- To be connected to cuffs.

CE EN 420

Ref.	Characteristics	Sizes	EN 388	EN 374-3	EN 374-2	
CSM / Neoprene						
8NLY3032	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Anatomical. Presence of lead	8H 9Q 10H	4101	ABL	✓	✓
8NLY3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 203mm. Ambidextrous. Presence of lead	9Q 10H	4101	ABL	✓	✓
7NLY3032	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Anatomical. Presence of lead	9Q	4101	ABL	✓	✓
7NLY3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 178mm. Ambidextrous. Presence of lead	9Q	4101	ABL	✓	✓
5NYL3032A	CSM / Neoprene. Length: 81cm. Thickness: 0.76mm. Diameter: 127mm. Ambidextrous. Presence of lead	9Q	4101	ABL	✓	✓
Short CSM insulating glove						
Y103	CSM. Length: 35cm. Thickness: 0.33mm. Diameter: 96.6 - 106.6mm. Anatomical	7 to 10	4111	AKL	✓	
Y103A	CSM. Length: 35cm. Thickness: 0.33mm. Diameter: 96.6 - 106.6mm. Ambidextrous	7 to 10	4111	AKL	✓	
Y154A	CSM. Length: 35cm. Thickness: 0.38mm. Diameter: 96.6 - 106.6mm. Ambidextrous	7 to 10	4111	AKL	✓	
Y254A	CSM. Length: 35cm. Thickness: 0.63mm. Diameter: 96.6 - 106.6mm. Ambidextrous	7 to 10	4111	AKL	✓	

Gloves from lead glove compartments and short insulating gloves

Short neoprene glove

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductor, nuclear, defence and manufacturing sectors.

ADVANTAGES

- Manufacturing the glove in superior quality steam-rolled neoprene gives it strong resistance to vapour and gas permeation.
- Resists a large range of chemical products, namely oils, grease, combustibles and acetone.
- A good lengthening ability gives it great flexibility.
- To be connected to cuffs.

Cuffs

APPLICATIONS

- Working with glove boxes in the pharmaceutical, biotechnology, semi-conductor, nuclear, defence and manufacturing sectors.

ADVANTAGES

- CSM offers exceptional resistance to ozone and to oxidizing agents such as alcohols, alkalis and acids. Equally resistant to ultraviolet rays, whether under artificial or natural light.
- Soft and natural touch for better comfort.
- Great resistance to abrasion and tears.
- To be connected to short gloves for glove compartments.

CE EN 420

Ref.	Characteristics	Sizes	Standards		Other standards
			EN 388	EN 374-3	EN 374-2
Short neoprene glove					
N103A	Neoprene. Length: 35cm. Thickness: 0.33mm. Diameter: 96.6 - 106.6mm. Ambidextrous	7 to 10	3101	ABL	✓
Cuffs					
YSL2027	CSM sleeve. Length: 69cm. Thickness: 0.51mm. Diameter: 254mm		1111		

Electrical protection

Due to production proficiencies Honeywell Industrial Safety is able to offer a complete range of products which meet all the expectations of users who work with live wires. Whether natural or composite Latex, our gloves guarantees protection from 500 volts to 36 000 volts operating voltage.

Electrosoft Latex isolating gloves - Cut edge

- Electricity is needed to satisfy growing global energy needs and isolating gloves are one of the most important pieces of equipment of personal protection for electricity professionals. They form the first barrier by blocking contact with electric currents.
- Areas of application include production, transportation, generation and distribution of electricity in industries such as railways, telecommunications and construction and for the installation and maintenance of solar panels and hybrid car batteries, etc.
- Non-supported Latex insulating gloves are recommended to be worn in conjunction with a suitable leather overglove to provide mechanical protection from abrasion, cuts, tears and perforation.
- The natural Latex glove is available in beige or red with a rolled or cut edge, according to the needs of the user.
- The natural Latex base offers excellent dielectric characteristics.
- The thicker the glove the higher the electrical resistance.
- An ergonomic design increases comfort by providing additional softness and allows the glove to be put on and taken off very easily.

Reference	Class	Operating voltage	Length	Size	Category	Colour
20 919 03	00	500 V AC	360 mm	7 to 11	AZC	Beige
20 919 07	0	1.000 V AC	360 mm	8 to 11	RC	Beige
20 919 06	0	1.000 V AC	410 mm	8 to 11	RC	Beige
20 919 11	1	7.500 V AC	410 mm	8 to 11	RC	Beige
20 919 12	1	7.500 V AC	360 mm	8 to 11	RC	Beige
20 919 21	2	17.000 V AC	360 mm	8 to 11	RC	Beige
20 902 21	2	17.000 V AC	410 mm	8 to 11	RC	Beige
20 919 31	3	26.500 V AC	360 mm	8 to 11	RC	Beige
20 902 31	3	26.500 V AC	410 mm	8 to 11	RC	Beige
20 919 41	4	36.000 V AC	410 mm	10 and 11	RC	Beige
20 910 83	00	500 V AC	360 mm	7 to 11	AZC	Red
20 910 84	0	1.000 V AC	410 mm	8 to 11	RC	Red
20 910 85	1	7.500 V AC	410 mm	8 to 11	RC	Red
20 910 86	2	17.000 V AC	410 mm	8 to 11	RC	Red
20 910 87	3	26.500 V AC	410 mm	9 to 11	RC	Red

Bicolor gloves

New

- ***Two colours increase safety.*** *The glove's bi-colour design (exterior: red; interior: beige) makes it easier and quicker for workers to recognize damage to the gloves (e.g., cuts, abrasion or tears). Simple and precise, this method saves time and improves safety. In case of damage the beige colour appears immediately and highlights the defect.*
- ***Additional features:*** *Third party lab tests show resistance vs. arc flash*

Reference	Class	Operating voltage	Length	Size	Category	Colour
20 910 73	00	500 volts AC	360 mm	7 to 12	AZC	Red and beige
20 910 74	0	1.000 volts AC	410 mm	7 to 12	RC	Red and beige
20 910 75	1	7.500 volts AC	410 mm	7 to 12	RC	Red and beige
20 910 76	2	17.000 volts AC	410 mm	8 to 12	RC	Red and beige
20 910 77	3	26.500 volts AC	410 mm	8 to 12	RC	Red and beige
20 910 78	4	36.000 volts AC	410 mm	10 to 12	RC	Red and beige

Composite gloves and special gloves

A range of composite gloves manufactured from a natural latex base, covered with an outer layer of polychloroprene that combines mechanical resistance and comfort with a high protection level.

Composite gloves incorporate both electrical and mechanical protection. A hammer is shown on each glove to highlight that it has been tested against cutting, perforation and wear and tear.

Composites

- ***Interior flocked cotton (for classes 00 and 0):*** *high density cotton is sprayed on the inside of the glove: better comfort because of sweat absorption.*
- *Chlorinated version are available to make putting on and taking off the gloves easier.*
- ***Patterned finishes:*** *good grip in damp conditions; particularly useful for outdoor work.*

- ***Protection from electric arc in the event of a short circuit:*** *the structure of the material shows excellent qualities against electric arcs.*

Reference	Class	Operating voltage	Length	Size	Category	Finish
20 920 11	00	500 V AC	360mm	7 to 11	RC	Chlorine, patterned palm
20 92S 11*	00	500 V AC	360mm	8 to 11	RC	Chlorine, patterned palm
20 920 12	00	500 V AC	360mm	7 to 11	RC	Flocked, patterned palm
20 920 13	00	500 V AC	410mm	7 to 11	RC	Flocked, patterned palm
20 920 14	0	1.000 V AC	360mm	8 to 11	RC	Chlorine, patterned palm
20 92S 14**	0	1.000 V AC	360mm	8 to 11	RC	Chlorine, patterned palm
20 920 15	0	1.000 V AC	360mm	7 to 11	RC	Flocked, patterned palm
20 920 16	0	1.000 V AC	410mm	7 to 11	RC	Flocked, patterned palm
20 920 17	1	7.500 V AC	410mm	9 to 11	RC	Patterned fingers
20 920 27	2	17.000 V AC	410mm	9 to 11	RC	Patterned fingers

*2092S11 = 2092011 + liner glove RGT 550M (see next page)
**2092S14 = 2092014 + liner glove RGT 550M (see next page)

Special gloves: IsoArc™ and Long Composite

- ***IsoArc™ is designed to be flame-resistant,*** *and guarantees electrical insulation up to 1000 V (it is not a composite). IsoArc™ is very thin and soft, enabling electricians to perform the most precise jobs. Independent testing has shown how the external polychloroprene layer of the IsoArc™ offers very good flame resistance, so that electricians are better protected in the event of an electric arc.*
- ***Long composite*** *gloves were developed to respond to the specific needs of professionals carrying out live-wire work: easy to put on, integrated mechanical resistance, arm isolation and protection up to the shoulder.*

Reference	Name	Class	Operating voltage	Length	Size	Category	Finish
20 920 02	IsoArc	0	1.000 V AC	360mm	7 to 11	RC	Chlorine, patterned palm
20 902 20	Long Composite	2	17.000 V AC	800mm	9 to 10	RC	Smooth

Overgloves

Overgloves are used to provide mechanical protection from abrasion, cuts, tears and perforation. Three different overgloves are available for low, medium and high voltage.

- *Cowhide silicone grain leather is flexible, water repellent and provides excellent mechanical protection.*
- *Velcro® strap closure for good maintenance.*
- *Protects Electrosoft gloves against mechanical risks.*
- *1.1mm thickness*
- *Length 31cm*

LT	MT	HT
Low voltage	Medium voltage	High voltage
2.5kV/5kV	10kV	20kV/30kV
Ref. 20 128 97	Ref. 20 128 98	Ref. 20 128 99

Liner gloves

RGT550M - Tricoton Mitt

Cotton liner glove mitten - Minor risk - Size 8 to 11

Glove inflator with adapter

The G100 is a simple and easy to use, portable glove inflator with adapter to also inspect Class 00 and 0 and smaller gloves. To use the adapter, the glove is secured to the adapter using a nylon strap with a hook and pile closure. The adapter, with glove attached, is then placed on top of the inflator to be inflated for inspection.

Ref.: G100

Re-test

In accordance with standard IEC- EN 60903, we provide electricians the possibility to re-test their used Honeywell gloves in our laboratory.

Reference to mention when ordering: 20 919 90

ATTENTION: to remain effective, insulating gloves must be used according to the following rules.

Storage: gloves are delivered in a UV resistant plastic bag suitable for transport and storing. Store the gloves in a dry and dark place at a temperature between 10°C and 21°C; do not compress, fold or store in proximity to sources of heat, light or the ozone.

Verification: before each use, conduct a visual examination and check the glove by inflating it. Any puncture or perforation makes the glove unusable.

Warnings: Do not expose the gloves with chemicals or solvents that may cause deterioration, for example oil, grease, turpentine, white spirit, paraffin or any strong acid. Do not use the glove when damp.

Cleaning: With soap and water. Dry below 65°C with ambient humidity.

Labelling: The date of the electrical test carried out at the end of production and the batch number is printed on each glove bag to ensure product traceability.

Electrical protection

Very high level tests for hi-tech products

Natural Latex gloves are designed and manufactured by our production unit in Autun, France, and are ISO 9001:2000 certified by the AFAQ (Association Française d'Assurance Qualité- French Association of Quality Assurance).

In order to meet these specifications, our gloves undergo rigorous testing:

- Visual and dimensional tests.
- Dielectric tests (automatic-test cabins verified periodically by the Central Laboratory for Electrical Industries - LCIE).

Batch testing and type testing (complete list available on request):

Mechanical tests, humidity absorption tests (resistance to AC power after conditioning for humidity absorption by complete immersion in water for a period of 16 hours), ageing (at 70°C in an air-oven for 168 hours)

Tests on gloves with special properties:

(The majority of ELECTROSOFT gloves comply with RC category requirements)

Category	Resistance to:
A	Acids
H	Oils
Z	Ozone
R	Acid + Oil + Ozone
C	Extremely low temperatures

Electrosoft gloves comply with standard IEC-EN 60903: Voltage works – gloves made of isolating materials.

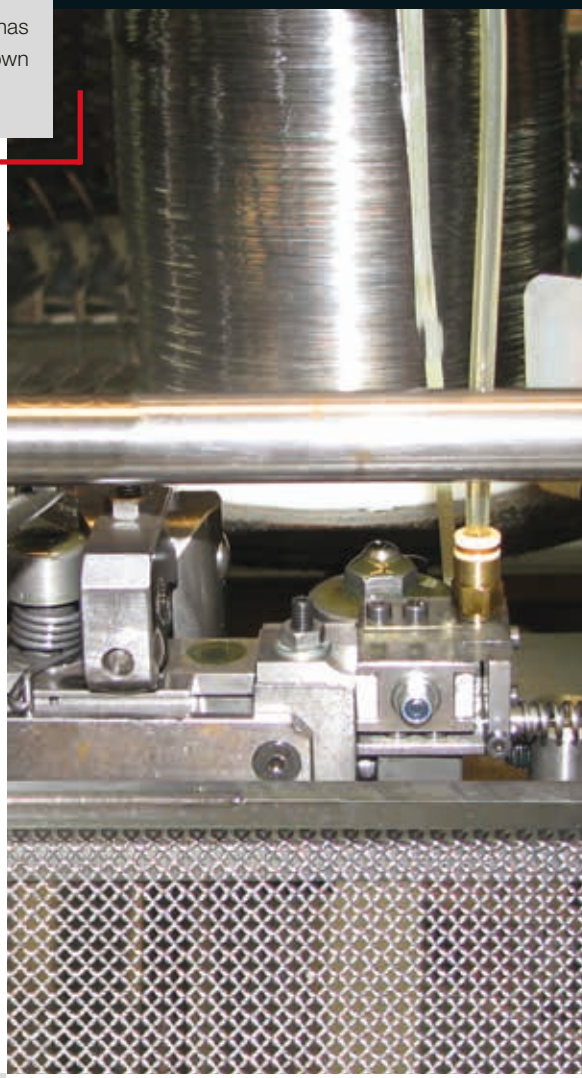
A complete range of products for all electrical work with voltages ranging from 500 to 36000 volts.

All insulating gloves are recommended to be tested every six months. In addition, gloves must be visually inspected to check for tears, rips and punctures. Gloves must be carefully inspected prior to each use.

Class	Alternating current	Direct current
00	500	750
0	1.000	1.500
1	7.500	11.250
2	17.000	25.500
3	26.500	39.750
4	36.000	54.000

Metal mesh protection

As global leader for 35 years in the manufacturing of metal mesh gloves and aprons, Honeywell has mastered the integration of the manufacturing process. Indeed, Honeywell has developed its own production machines and created unique software dedicated to designing metal mesh products.



At Honeywell Industrial Safety we meet the growing expectation and demands from industry through continuous innovation and our experts use constant risk analysis to extend and complete the range with high-end solutions. As a result Honeywell is now in a position to provide solutions which respond to the users' needs, such as optimum comfort, ergonomics and fashion.

DETECTABLE RANGE

Anxious to improve their own quality more and more businesses are eager **to detect the presence of foreign bodies** in their manufacturing process. As a consequence, Honeywell has developed a complete range of gloves, aprons and vests which are detectable from magnetic stainless steel.

The exceptional quality of Chainex metal mesh significantly reduces the number of repairs in comparison to what is generally found on the market.

EN 1082 Gloves and arm protection against cuts and hand knife nicks.
They are tested at a power of 2.45 joules (falling from 0.25m from a blade attached to a mass of 1000g).

EN 13998 Aprons, trousers and protection vests against cuts and hand knife nicks.
ChainexOne are tested at a power of 2.45 joules.
Level 1: Falling from 0.25m from a blade attached to a mass of 1000g.

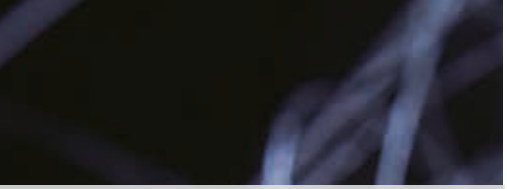
EN 13998 Aprons, trousers and protection vests against cuts and hand knife nicks.
ChainexTwo, ChainexLite and Lamex are tested at a power of 4.9 joules.
Level 2: Falling from 0.5m from a blade attached to a mass of 1000g.

Tests carried out by:
LABORATOIRE NATIONAL D'ESSAIS (French National Test Laboratory)

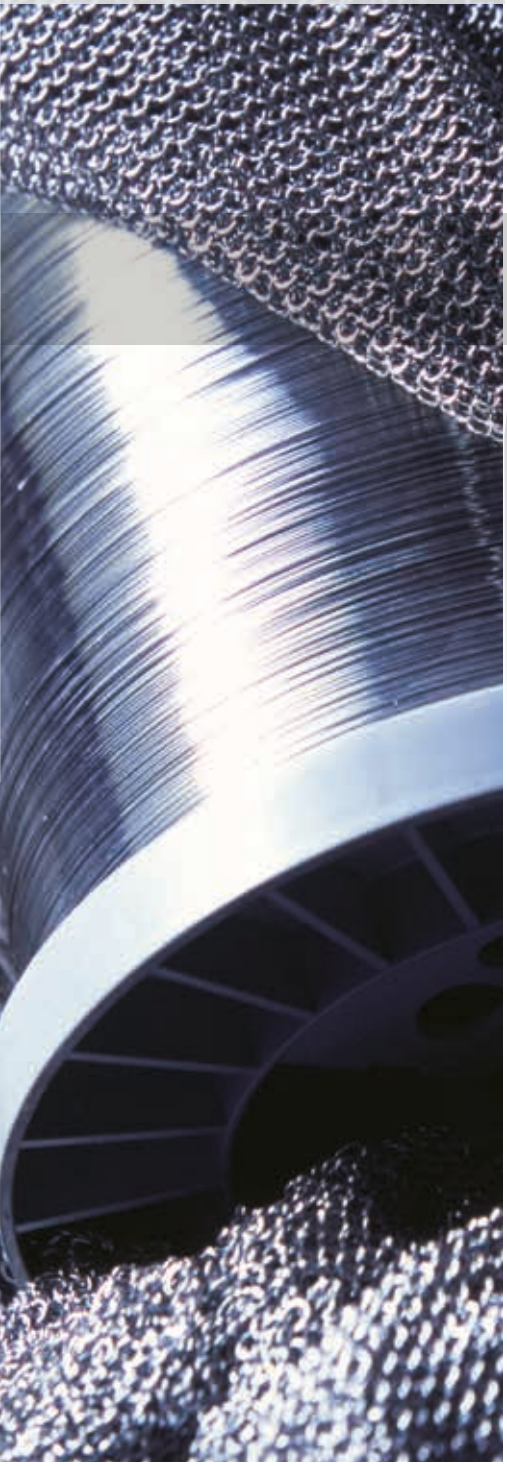
Reversible GLOVE

AMBIDEXTROUS GLOVE

DETECTABLE



CHAINEX	Colour code	EQUIVALENCE
6 XXL	6	11.5
5 XL	5	10.5
4 L	4	9.5
3 M	3	8.5
2 S	2	7.5
1 XS	1	6.5
0 XXS	0	5.5



IDENTIFY YOUR SIZE

Metal mesh protection

ChaineXium

Stainless steel metal mesh glove with **shortened steel spring strap**.
Titanium detectable version available on request.

SAFETY

- The spring strap on the wrist does not release: permanent user safety

COMFORT

- Auto adjustable: the glove adjusts to the hand without the need of a closing system

HYGIENE

- No removable or severable element: no foreign bodies in production.
- Easier washing, disinfection and drying: attachment system in steel mesh

EASE

- Identification sticker with zone which can be personalised and unique number per glove, etched onto the colour sticker

ChaineXium with or without cuff

Ref.	Weight	Name	Cuff length (mm)	Sizes
253300XR0302	160g	Chainexpert	0	0 to 6
253300XR0M02	160g	Detectable Chainexpert	0	
253300XR0T02	95g	Titanium Chainexpert	0	
253441XA0302	280g	ChaineXium with small cuff	100	
253431XA0302	330g	ChaineXium with large cuff	210	
253431XA0M02	330g	Detectable ChaineXium	210	

Sleeved ChaineXium (shoulder glove) with or without cuff

Ref.	Weight	Name	Sizes
253371XA0302	760g	Sleeved Chainexpert	0 to 6
253361XA0302	600g	Chainexpert sleeve without glove	

Detachable pieces

Size	Left	Right
	2AGJCG000000	2AGJCD000000
	2AGJCG001000	2AGJCD001000

Metal mesh protection

Chainextra

Stainless steel metal mesh glove with **interchangeable plastic spring strap**.
Detectable version available on request.

SAFETY

- No side opening: complete wrist protection

HYGIENE

- Anti-bacterial agent: avoids contaminations

COMFORT

- Scalloped plastic spring: the control loop does not slide

EASE

- Plastic spring strap removable and replaceable without tools

Chainextra

Ref.	Weight	Name	Cuff length (mm)	Sizes
254200XR0302	190g	Chainextra		0 to 6
254241XR0302	290g	Chainextra with small cuff	100	
254251XR1302	344g	Chainextra with medium cuff	165	
254231XR0302	385g	Chainextra with large cuff	210	
254231XM0302	385g	Chainextra with large detectable cuff	210	

Detached pieces

Size	
2AGSLX000A43	21062000S302
2AGSLX000A44	
2AGSLX000A40	
2AGSLX000A45	
2AGSLX000A46	
2AGSLX000A47	
2AGSLX000A48	

Sleeved Chainextra (shoulder glove)

Ref.	Weight		Sizes
254271XG0302	934g	Left	0 to 6
254271XD0302	934g	Right	

Detached pieces

Size		Left	Right
2XBMAN000A43	10620/005/302	2AGJCG000000	2AGJCD000000
2XBMAN001A44			
2XBMAN002A40			
2XBMAN003A45			
2XBMAN004A46			
2XBMAN005A47		2AGJCG001000	2AGJCD001000
2XBMAN006A48			

*N.B: the **X** in each references refers to the size which needs to be specified when ordering: from 0 to 6.* *See page 245*

Metal mesh protection- gloves

Chainex 2000

Ref. Textile spring strap	Weight	Name	Size
2500000XR0302	170g	Chainex 2000	0 to 6

Stainless steel metal mesh glove with **textile spring strap**.

SAFETY

- For versions with a plastic sleeve equipped with glass fibre, exceptional resistance to shock, cleaning and ultraviolet products.

COMFORT

- The extremely flexible spring strap adapts to all shapes and guarantees comfort and ergonomics.

Chainex 2000 with or without reversible metal mesh cuff

Ref. Textile spring strap	Weight	Name	Cuff length (mm)	Sizes
2500000XR0302	170g	Chainex 2000	0	0 to 6
250041XR1302	249g	Chainex 2000 small cuff	100	
250051XR1302	307g	Chainex 2000 medium cuff	165	
250031XR1302	249g	Chainex 2000 large cuff	200	

Chainex 2000 with plastic cuff

Ref. Textile spring strap	Ref. Plastic spring strap	Weight	Name		Size
250021XG1302	254021XG1302	350g	Chainextra 2000 with removable cuff	Left	0 to 6
250021XD1302	254021XD1302	350g	Chainextra 2000 with removable cuff	Right	
250011XG1302	254011XG1302	350g	Chainextra 2000 with fixed cuff	Left	
250011XD1302	254011XD1302	350g	Chainextra 2000 with fixed cuff	Right	

Removable plastic cuff

Size		Left	Right
	21062000S302	2MPBP1AG1A39	2MPBP1AD1A39
		2MPBP1AG2A39	2MPBP1AD2A39
		2MPBP1AG3A39	2MPBP1AD3A39

*N.B: the **X** in each references refers to the size and needs to be specified when ordering: from 0 to 6.* *See page 245*

Metal mesh protection- gloves

Special products

APPLICATIONS

- Thumb protection: cutting operations, flower cutting, stripping of cables.
- Three finger protection: principally used in the textiles industry.

Thumb protection

Ref. 2P0000XR0302

Fixed glove

Ref. 2AGFDO000A46

(Also available in white sold in packs of 100)

Three fingered glove

Ref. 230000XR0302

Made to measure gloves

Metal mesh protection- aprons/vests

SAFETY

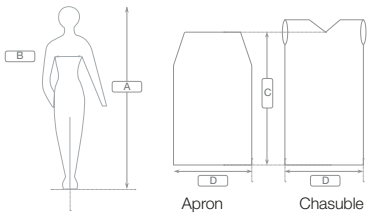
- Close mesh (levels 1 & 2): for better protection against tapered knives.

TECHNICAL CHARACTERISTIC

- External mesh diameter: 4mm.

HYGIENE

- 100% stainless steel design.
- Food and anti-bacterial quality plastic braces and belts.



ChainexOne

Protection level 1

ChainexOne apron (blue plastic braces in H formation)

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Brace kit
4CSL00E1B302	164	90	69	41	815	4ATJBC002A46
4CSL00G3B302	170	98	72	44	881	
4CSL00I5B302	180	108	76	49	1010	
4CSL00K7B302	194	120	82	54	1160	

ChainexOne vest

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Blue Adflex belt
4CSLC0G3B302	170	98	72	44	1285	4ATJC003A46
4CSLC0I5B302	180	108	76	49	1485	
4CSLC0K7B302	194	120	82	54	1852	

ChainexTwo

Protection level 2

ChainexTwo apron (blue plastic braces in H formation)

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Brace kit
4CSROOI5B302	180	108	76	49	1358	4ATJBC002A46
4CSROOK7B302	194	120	82	54	1563	

ChainexTwo vest

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Blue Adflex belt
4CSRCOK7B302	194	120	82	54	2162	4ATJC003A46

Metal mesh protection- aprons

RECOMMENDATIONS

- Continuous protection from torso to wrist.
- The weight is largely borne on the shoulders due to the design of the shoulder and neckline, there is no strain on the nape of the neck.
- The metal mesh makes the apron very supple and easy to put on and wear and cleaning is made easier.

ChaineXtend one sleeve

Protection level 2

Ambidextrous material

ChaineXtend one sleeve

Ref.	Size	Name	User size	Chest size	Net weight (gr)
4CXTC3G2B302	2	ChaineXtend 1 sleeve, titanium T2	152 - 164	82 - 90	1986
4CXTC3G3B302	3	ChaineXtend 1 sleeve, titanium T3	164 - 170	90 - 98	2076
4CXTC3G4B302	4	ChaineXtend 1 sleeve, titanium T4	170 - 180	98 - 108	2232
4CXTC3G5B302	5	ChaineXtend 1 sleeve, titanium T5	180 - 194	108 - 120	2408
4CXTC3G6B302	6	ChaineXtend 1 sleeve, titanium T6	194 - 207	120 - 130	2692
4CXTC3G7B302	7	ChaineXtend 1 sleeve, titanium T7	207 - 220	130 - 140	2866

ChaineXtend two sleeves

Protection level 2

ChaineXtend two sleeves

Ref.	Size	Name	User size	Chest size	Net weight (gr)
4CXTC4G2B302	2	ChaineXtend 2 sleeve, titanium T2	152 - 164	82 - 90	2286
4CXTC4G3B302	3	ChaineXtend 2 sleeve, titanium T3	164 - 170	90 - 98	2450
4CXTC4G4B302	4	ChaineXtend 2 sleeve, titanium T4	170 - 180	98 - 108	2550
4CXTC4G5B302	5	ChaineXtend 2 sleeve, titanium T5	180 - 194	108 - 120	2790
4CXTC4G6B302	6	ChaineXtend 2 sleeve, titanium T6	194 - 207	120 - 130	3220
4CXTC4G7B302	7	ChaineXtend 2 sleeve, titanium T7	207 - 220	130 - 140	3416

Accessories:
- Blue Adflex belt: 4ATJC003A46
- Blue plastic semi-brace kit (M/F compatible): 4AGCXT000A46

Accompanying glove:
- CHAINEXIUM small cuff 253441XA0302 – See page 246
- CHAINEXTRA small cuff 254241XR0302 – See page 247

Metal protection- aprons/vest

SAFETY

- Weight 25% less than what is generally found on the market.

HYGIENE

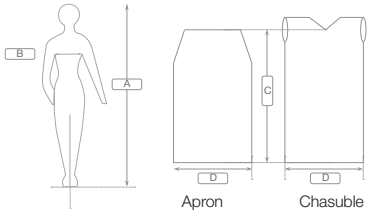
- 100% stainless steel design.

TECHNICAL CHARACTERISTIC

- 7mm external mesh diameter.

ChainexLite

Protection level 2



ChainexLite apron (blue plastic braces in H formation)

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Brace kit
4C704500C302	166	100	70	45	825	**4ATJBC002A46**
4C755500C302	178	122	75	55	1058	
4C805500C302	190	122	80	55	1124	
4C905500C302	214	122	90	55	1237	
4C116000C302	261	133	110	60	1639	**4ATJBC004A46**

ChainexLite apron (blue textile braces in H formation)

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Brace kit
4C704500N302	166	100	70	45	825	**4ATJBCJ00A46**
4C755500N302	178	122	75	55	1058	
4C805500N302	190	122	80	55	1124	**4ATJBCF00A46**
4C905500N302	214	122	90	55	1237	
4C116000N302	261	133	110	60	1639	

ChainexLite vest

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Blue Adflex belt
4C7555C0C302	178	122	75	55	1665	4ATJC003A46
4C9055C0C302	214	122	90	55	1800	

ChainexLite detectable version

Ref.	Name	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight* (gr)	Accessories
4C605500NM02	Chainexlite detectable apron	142	122	60	55	1100	blue textile brace kit, in X formation
4C755500NM02	Chainexlite detectable apron	178	122	70	55	1322	
4C9055C0CM02	Chainexlite detectable chasuble	214	122	90	55	2400	Blue plastic belt

Metal protection- aprons/vest

SAFETY

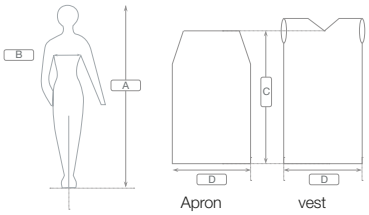
- 100% invisible.

COMFORT

- The small size of aluminium plates significantly increases the fluidity of the apron giving an optimum feeling of comfort.

LamexPlus

Protection level 2



LamexPlus apron (blue plastic braces in H formation)

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Brace kit
4L704500CC01	166	100	70	45	1214	**4ATJBC002A46**
4L755500CC01	178	122	75	55	1480	
4L805500CC01	190	122	80	55	1632	
4L905500CC01	214	122	90	55	1750	
4L116000CC01	261	133	110	60	2215	**4ATJBC004A46**

LamexPlus vest

Ref.	A max (cm)	B max (cm)	C max (cm)	D max (cm)	Weight (gr)	Blue Adflex belt
4L7555C0CC01	178	122	75	55	1570	4ATJC003A46
4L9055C0CC01	214	122	90	55	1950	

Accessories - aprons/vest

For aprons

Plastic brace kit in H formation:
4ATJBC002A46 - Size 70x45, 75x55, 80x55 and 90x55
4ATJBC004A46 - Size 110x60

Blue textile brace kit in X formation:
4ATJBCJ00A46 - Size 70x45 and 75x55
4ATJBCF00A46 - Size 80x55 and 90x55
4ATJBCI00A46 - Size 110X60

For vest

Blue plastic Adflex belt
4ATJC003A46

Protective Clothing

The technical quality of our fabrics and the careful cut of our clothes will allow you to stay protected at work in optimum comfort

Protective Clothing

Comfort and expertise in technical fabrics

Honeywell Industrial Safety offers a complete range of personal protective clothing, from the single use to the reusable.

Honeywell clothing provides workers with outfits and equipment that are adapted to the risks to which they are exposed. To meet the expectations of different users, a wide range of clothing is available, depending on the nature and level of protection required.

A WIDE RANGE ADAPTED TO THE MAJORITY OF PROFESSIONAL SITUATIONS AND ENVIRONMENTS:

A complete range of outfits and accessories to guarantee total protection for the body, to provide you with a comprehensive solution.

WORKWEAR & TECHNICAL WORKWEAR

REUSABLE PROTECTIVE CLOTHING

SINGLE USE PROTECTIVE CLOTHING

VENTILATED PROTECTIVE CLOTHING

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Workwear

- HLine range p. 256

Technical Workwear

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- Size Guide and Washing Instructions p. 267
- Multirisk Protection p. 268
- Thermal Protection p. 272
- Electrical Protection p. 278
- Fire Protection p. 280

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  Ne-Hon™ 6 - Mutex® Light BS
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HLine workwear range

Work Better in Comfort and Style

To complete its head-to-toe range of safety equipment, Honeywell has developed HLine, a line of innovative and high value-added professional workwear focused on the essentials.

We are committed to offering optimal protection and comfort based on four values:
Performance: Offering lightweight workwear that focuses on essentials.
Reliability: Offering durable equipment you can trust, due to the highest-quality materials.
Intuitive innovation: Offering new and continuously innovative solutions for easy everyday use.
The human experience: Offering stylish and comfortable clothing that lets you be more effective at work.

HLine
HUMAN PROTECTION

Easy choice guide

	Impermeability	Breathability	Warmth	Ripstop Fabric	Cordura®	Stretch Fabric	Patented knee pocket EN 14404+A1:2010-01*
3-in-1 Parka H101	XXXX	XXXX	XXXX	✓			
Parka H102	XXX = 10K	XX = 5K	XXX				
Softshell H201	XXX = 10K	XXx = 10K	X			✓	
Stretch Jacket H202		XX	XX			✓	
Technical Polo H203		XXX					
Fleece Jacket H204		XXX	XXX				
Trousers with Holster H301				✓	✓		✓
Trousers H302				✓	✓		✓
Stretch Trousers H303						✓	✓

Levels of performance: X Standard - XX Good - XXX Very good - XXXX Excellent

Certified to protect knees when working on knees

Size chart

TOPS (suitable for all tops)

Chest size (cm)	85-92	92-100	100-108	108-116	116 -124	124-132
Size to choose	S	M	L	XL	2XL	3XL

TROUSERS (measure your waist size where you close your trousers)

WARNING the UK size below does not correspond to a standard sizing. Please make sure you are ordering the right size by measuring your waist size before. For your information the size indicates the maximum waist size to fit in the trousers.

Waist size (cm)	82-86	86-90	90-94	94-98	98-102	102-106
Waist size (inches)	32” to 34”	34” to 35,5”	35,5” to 37”	37” to 38,5”	38,5” to 40”	40” to 41,5”
Size to choose	S/40L	M/42L	L /44L	LXL/46L	XL/48L	2XL/50L
Nordic Size equivalence	C 46	C 48	C 50	C 52	C 54	C 56
UK Size equivalence	34”-32”	35,5”-32”	37”-32”	38,5”-32”	40”-32”	41,5”-32”

Size of Inseam: 82 cm - 32" - Example for Trousers H301: if your size waist is between 90 and 94 cm, the reference to chose is: 4002301-L/44L.

3 in 1 Parka - H101

Style and high-performance protection

FEATURES & BENEFITS

Sizes S to 3XL

Resistance
- Ripstop weave offers very good resistance to abrasion and tearing
- Pocket on left arm with waterproof zip.
- YKK® zip

Comfort
- Fleece chin closure
- Stopper for a better adjustment on exterior jacket
- Napoleon pocket for easy access
- Stylish reflective details to be visible when needed
- Optimal visibility windows on the sides of the hood: great visibility
- Protection against extreme cold
- Highly waterproof (15K)
- Extremely breathable (15K) - Very lightweight

Ref.
40 011 01

- **Fabrics:**

A **Interior vest:** 100% polyester canvas – 70 g/m² - Padding: 100% polyester 120 g/m² (on arms) / 140 g/m² (on top body) - 15K/15K membrane

B **Exterior vest:** Micro ripstop 100% - Polyamide Nylon® - 137 g/m²

Parka - H102

Look good and protect yourself from bad weather

FEATURES & BENEFITS

Sizes S to 3XL

Resistance
- Square padding for a longer service life (does not move about when washing)
- Very good resistance to abrasion and tearing
- YKK® Zip

Comfort
- Fleece collar and chin closure
- Inner breast pocket
- Hood easily packs away in the collar
- Good protection against the cold
- Highly waterproof (10K) - Good breathability (5K)

Ref.
40 011 02

- **Fabrics:** 100% Dobby polyamide – 244 g/m² Padding: 100% polyester 120 g/m² (on arms) / 140 g/m2 (on top body) - Coating PU 10K/5K

HLine workwear range

Softshell - H201

Flexible and waterproof fabric

FEATURES & BENEFITS

Sizes S to 3XL

Resistance
- Waffled interior keeps shape better over time
- Very good resistance to abrasion and tearing
- YKK® zip

Comfort
- Raised collar at the back of the neck to stay dry when it rains
- Inner breast pocket with cable loop
- Stopper for a better adjustment
- Fleece collar and chin closure
- Very breathable (10K) - Highly waterproof fabric (10K)
- Stretch material

Ref.
40 022 01

- **Fabrics:** Three-layer laminated fabric:
  Exterior: 100% polyester fabric – 245 g/m² - 10k/10K membrane - Waffled interior

Stretch Jacket - H202

Style and comfort

FEATURES & BENEFITS

Sizes S to 3XL

Resistance
- High-density fabric offers protection against the wind
- Good performance over time
- YKK® Zip

Comfort
- Ribbed cuffs and waist
- Reverse zip, avoid penetration of dirt
- Stretch fabric, very comfortable to wear
- Easily adapts to all body types
- Good breathability

Ref.
40 022 02

- **Fabrics:** 73% viscose jersey - 23% nylon - 3.5% Elastane - 475 g/m²

HLine workwear range

Technical Polo - H203

Breathable and quick-drying

FEATURES & BENEFITS

Sizes A: S to 3XL - B: S to 3XL

Resistance
- Keeps shape well over time
- YKK® zip

Comfort
- Original pocket on the side for pens, safety spectacles or small tools
- Highly breathable, allows sweat evacuation
- Quick-dry fabric, thanks to the “Dry Tech” treatment
- Very comfortable to wear

Ref.	Description
40 092 03	A
40 022 03	B

- **Fabrics:** Double-knit: Jersey / mesh, 57% cotton, 43% polyester - 185 g/m² 120 g/m² (on arms) / 140 g/m² (on top body) - Coating PU 10K/5K

Fleece jacket - H204

Warmth and breathability

FEATURES & BENEFITS

Sizes S to 3XL

Resistance
- Anti-pilling treatment on both sides
- YKK® Zip

Comfort
- Neckband on collar
- Stopper at the bottom for better adjustment
- Level of perfomance:
- Very dense microfleece: incredibly warm and breathable

Ref.
40 022 04

- **Fabrics:** 100% polyester fleece - 250 g/m²

HLine workwear range

Trousers with holster - H301

Durable and comfortable

FEATURES & BENEFITS

Sizes S to 2XL

Resistance

- The ripstop weave provides excellent resistance to abrasion and tearing
- Holster pockets and knee reinforcement made of 100% Cordura®
- Keeps its shape over time and washable at 60°C
- YKK® zip

Comfort

- Sophisticated cut for extreme comfort in all positions - High back and wide flat elastic band - Crotch gusset for comfort
- Specific seams on the sides - Patented knee pad system: Easy access for knee pad insertion / removal - Smart protection against penetration from gravel and other dirt - Cleverly designed pockets - Easy-access, dust-protecting mobile phone pocket
- Cutter / ruler pocket with loose bottom
- Holster pockets that can be placed into the Italian pockets

PATENTED

Ref.
40 023 01

- **Fabrics:** Ripstop: 65% polyester - 35% cotton - 263 g/m² - Cordura® reinforcements 215 g/m²

Trousers - H302

Strong and technical

FEATURES & BENEFITS

Sizes S to 2XL

Resistance

- The ripstop weave provides excellent resistance to abrasion and tearing
- Holster pockets and knee reinforcement made of 100% Cordura®
- Keeps its shape over time and washable at 60°C
- YKK® zip

Comfort

- High back and wide flat elastic band - Crotch gusset for comfort - Specific seams on the sides
- Patented knee pad system: Easy access for knee pad insertion / removal - Smart protection against penetration from gravel and other dirt - Cleverly designed pockets - Dust-free, easy-access mobile phone pocket
- Cutter / ruler pocket with loose bottom - Easy-access cargo pocket

PATENTED

Ref.
40 023 02

- **Fabrics:** Ripstop: 65% polyester - 35% cotton - 263 g/m² - Cordura® reinforcements 215 g/m²

HLine workwear range

Stretch trousers - H303

Fashionable and flexible

FEATURES & BENEFITS

Sizes S to 2XL

Resistance

- High-quality stretch that won't lose its shape over time
- Good resistance to abrasion and tearing
- Washable at 40°C
- YKK® zip

Comfort

- Flexible and elastic fabric material, very comfortable to wear
- High-stretch fabric added at the waist for excellent freedom of movement (13% elastane) PATENTED
- Patented knee pad system: Easy access for knee pad insertion / removal - Smart protection against penetration from gravel and other dirt
- Cutter / ruler pocket with loose bottom
- Zippered mobile phone pocket, ideal when wearing a harness

Ref.
40 023 03

- **Fabrics:** 98% twill cotton - 2% elastane 290 g/m²

Knee pads - H401

PATENTED

EN 14404+A1:2010-01

Patented knee pad insertion system
Certified to protect knees when working on knees

Ref.
40 014 01

Sizes By pair

Technical Workwear

Our range of technical clothing is designed to protect individuals in many risk situations and varied environments: maintenance, chemical, petrochemical, refinery, energy, steelworks, foundry, fire, etc.

Standards

EN 340:2003: general requirements

Reference standard that cannot be used alone but only in combination with another standard containing requirements relating to protection performance. This European Standard specifies the general performance requirements of protective clothing with regard to ergonomics, harmlessness, sizing, durability, ageing, compatibility and marking of protective clothing as well as information provided by the manufacturer.
This reference standard cannot be used alone and should always be used in combination with another standard which contains the requirements relating to the protection performance.

All Honeywell clothing complies with the EN 340 standard.

PROTECTION AGAINST HEAT AND/OR FLAMES

EN ISO 14116:2008 (formerly EN 533:1997): **Heat protection clothing.**
EN ISO 11612:2008 (formerly EN 531:1995): **Heat and flame protection clothing.**

				Performance level			
			Classes	1	2	3	4
A	Limited flame spread	EN ISO 15025	Compliant if: no flame, no holes, no flammable residue				
B	Resistance to convective heat	ISO 9151	HTI* value 24 (in seconds)	>4 and <10	>10 and < 20	>20	
C	Resistance to radiant heat	ISO 6942	Heat transmission factor RHTI* 24 (in seconds)	>7 and <20	>20 and <50	>50 and <95	>95
D	Resistance to molten aluminum splashes	ISO 9185	(in droplets)	>100 and <200	>200 and <350	>350	
E	Resistance to molten iron splashes	ISO 9185	(in droplets)	>60 and <120	>120 and <200	>200	
F	Contact heat	ISO 12127	Threshold (in seconds)	>5 and <10	>10 and <15	>15	

*HTI: Heat Transfer Index. **RHTI: Radiant Heat Transfer Index.

EN ISO 11611:2007 (formerly 470-1: 1995).
Protective clothing used for welding and allied processes

	Performance level	
Type of tests and reference standards	Class 1	Class 2
Impact of splashes (droplets: g): ISO 9150 (1988)	≥ 15g	≥ 25g
Heat transfer (rays): ISO 6942 (2002)	RHTI 24 ≥ 7 s	RHTI 24 ≥ 16 s

PROTECTION AGAINST ELECTROSTATIC HAZARDS

EN 1149-5:2008
Electrostatic properties. Requirements for the performance of materials and design.

HIGH VISIBILITY CLOTHING

EN 471
High visibility clothing for professional use.

PROTECTION AGAINST CHEMICAL HAZARDS

EN 13034:2009: Type 6
Protective clothing offering limited protection against liquid chemicals.

PROTECTION FROM THE WEATHER

EN 343:2003
Protective clothing for the rain at a temperature. above -5°C.
For all teams working outdoors (Building and Public Works, etc.).

PROTECTION AGAINST FIRE

EN 469:2005
Protective clothing for firefighters and for fire-fighting.

PROTECTION AGAINST ARCING

IEC 61482-2:2009
Protective clothing against thermal hazards of an electric arc.
Class 1: > 4 KA (500ms, 30cm) - Class 2 > 7 KA (500ms, 30cm).

Honeywell Industrial Safety is attentive to the design and ergonomics of its products so that they can be worn and appreciated.
Different finishes are available so that equipment can be selected to suit any specific hazards.

1

2

Wrist fastening

1 Press-stud buttons
- Allows gloves to be slipped on easily
- Better protection: from hazardous thermal products (iron and aluminum)

2 Semi-elasticated
- Allows gloves to be slipped on easily
- For greater comfort, the semi-elasticated fastening can be adjusted to size on the back of the hand without needing to make it too tight.

1

2

Elasticated waist

1 On coveralls
- Completely elasticated waist for better fit

2 On pants
- Semi-elasticated waist for a perfect fit and maximum ease of movement.

1

2

Pockets

1 Pocket on the legs, chest and jacket bottoms
- Design: flap with diagonal taped edging
- Fastening system offers good security: inner stitched seam and outer press-stud. Prevents opening accidentally to stop the ingress of chemical/thermal liquids, sparks, etc.

2 Slanted Pocket at the waist with a protective flap
- Combining protection, design and comfort

1

2

Fastening system on jackets, coveralls and parkas

All our models have an outside flap to ensure added protection; some models also have an inner lining.

1 Using a metal zip and Velcro®
- Quick: two-way zip
- Ideal for soiled environments.

2 Using Metal press-studs and Velcro®
- Press-studs: for environments where there is an electrostatic hazard

Technical Workwear

Contents

Our knowledge of technical fabrics assures you of the most appropriate equipment for the risks relating to your environment.

CONTENTS	DESCRIPTIONS	STRENGTHS	WEAKNESSES
COTTON	**Natural plant-based fiber** From cotton tree seeds: Gossypium	• Warm and soft to the touch: pleasant to wear • Hypoallergenic • Resists high temperatures • Not prone to static electricity (in a normal atmosphere)	• Low abrasion resistance • Wrinkles easily • Resists high temperatures: sensitive to humidity • Hydrophilic: absorbs water easily and dries slowly
POLYESTER	**Synthetic chemical fiber**	• Resistant: often blended with other more fragile fibers due to its high resistance • Good wrinkle recovery and easy care • Good dimensional stability: keeps its shape and colors • Hydrophobic: low water absorption	• May build up static electricity: solved by blending with cotton/viscose or by applying an antistatic finish • Rough to the touch
WOOL	**Animal-based natural fiber** From sheep fleece	• Excellent thermal insulation • Elastic and supple • Breathable • Excellent chemical properties: resistant to acids, low bases and solvents	• Dries very slowly • Poor resistance to rubbing (pilling)
VISCOSE	**Artificial chemical fiber** Made from plant cellulose then regenerated	• Absorbent • Wear resistant • Easy care • Resistant to chemical compounds: weak acids, solvents, weak and strong bases	• Wrinkles easily • Sensitive to microbes • Limited stretch
MODACRYLIC	**Synthetic chemical fiber**	• Hypoallergenic • Resistant to acids • Fire resistant (self-extinguishing) • Pleasant to the touch	• Low abrasion resistance
POLYAMIDE	**Synthetic chemical fiber** Obtained from synthetic fibers from polymerization	• Material resistant to rubbing and wear • High tensile strength (comparable to that of steel) • Non-flammable, no fire propagation	• Low breathability
ARAMID	**Synthetic chemical fiber** The word aramid comes from the abbreviation of 'aromatic polyamide' Aramid fibers are made up of continuous yellow strands	**Meta-aramid:** (e.g. Nomex®) • Durable and easy care to tearing and abrasion • Extremely resistant: - to heat: non-flammable - to chemical agents **Para-aramid:** (e.g. Kevlar®) • High mechanical resistance • High thermal stability: carbonization around 450°c • Excellent dimensional stability	• Resistance to the light in colors relatively low
PARA-ARAMID ALUMINIZED	**Aramid fiber** With aluminized film on the outside	• Excellent radiant heat protection • Resists high temperatures • Waterproof	• Cannot be washed • Slightly rough to the touch
LEATHER 1 2	**Grain leather:** outer part of the animal skin **Split leather:** inner part of the animal skin	• Good insulation • Heat resistant • Advantage of grain leather: resistance to tears and cuts, dexterity and suppleness • Advantage of split leather: abrasion resistance and cost-effective	• Cannot be washed • Animal-based material: possible variations in appearance • Less breathable than cotton
NEOPRENE	**First synthetic elastomer** Polychloroprene-based rubber	• Lightweight • Stretchable • Resists wear and contact with hydrocarbons and solvents • Offers protection against the cold	• Retains heat

POSSIBLE TREATMENTS

- **Flame-retardant:** obtained by adding flame-retardant chemicals. It delays or prevents the fabric from catching fire.
- **Fluorocarbon (oil/water repellent):** fluorocarbon-based impregnation to obtain chemical protection (type 6, EN 368 standard). To ensure such a finish, after washing, it is necessary to re-apply fluorocarbon-based agents regularly.

Honeywell, ever closer to its customers.

Honeywell is constantly engaged in the safety of its customers and ensures that personal protective equipment can be worn in the most appropriate manner consistent with the hazards in the working environment.
A retro-reflective ''Hazard/Risk'' label is now shown on the majority of Honeywell technical workwear, which uses standard pictograms as an aid to worker safety.

This label provides clear information to enable:

- The user to be certain of wearing the most suitable equipment for the hazards in the workplace.
- The safety officer or supervisor to make sure that workers are wearing suitable equipment.

1 2 3 4

1. Protection against heat and flame
2. Protection against chemical hazards
3. Protection against electrostatic hazards
4. Protection during welding and allied processes

Technical Workwear

Personalized Offer

Honeywell work clothing can be easily personalized* using retro-reflective strips and by adding your logo. These add-ons can be made to the Multisafe, Nomex®, AllPro, FlamPro1 and ChemPro ranges.

WORK IN COMPLETE SAFETY: BETTER VISIBILITY DURING BOTH DAY AND NIGHT

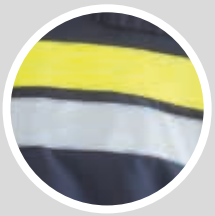
Installation of retro-reflective strips

4 positions

Standards

EN 471:2004 | EN ISO 14116:2008 | EN 469:2005

2 colors available



Yellow

Grey

For all ranges indicated by this pictogram in the catalogue

Colors	Positions →	1 Shoulders	2 Arms	3 Chest	4 Legs
Grey	*Band width: 5 cm*	• Ref.: 14 990 01	• Ref.: 14 990 03	• Ref.: 14 990 05	• Ref.: 14 990 07
Yellow	*Band width: 5 cm*	• Ref.: 14 990 02	• Ref.: 14 990 04	• Ref.: 14 990 06	• Ref.: 14 990 08

* From 100 pieces ordered *(all sizes included)*

YOUR CLOTHING: A MOBILE ADVERTISING MEDIUM

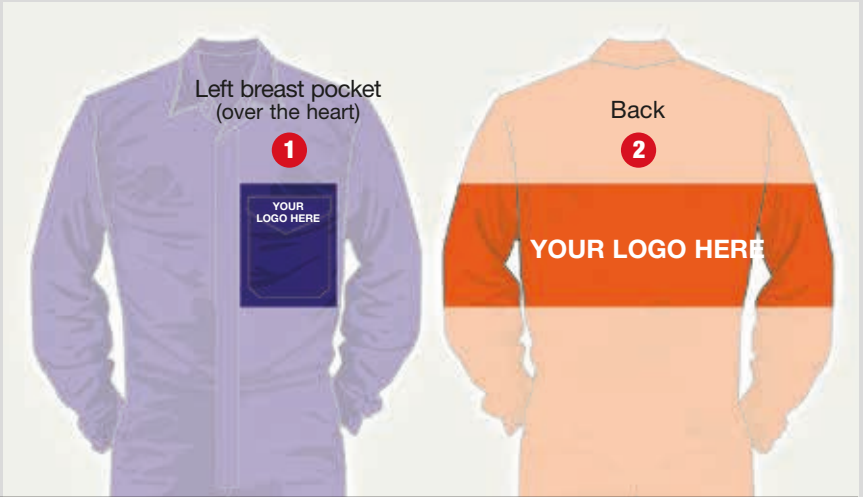
Customize your clothing by putting your logo on it.

2 positions

2 types of marking available:

- **Aramid thread embroidery**
- **Heat-sealed marking**

For all ranges indicated by this pictogram in the catalogue

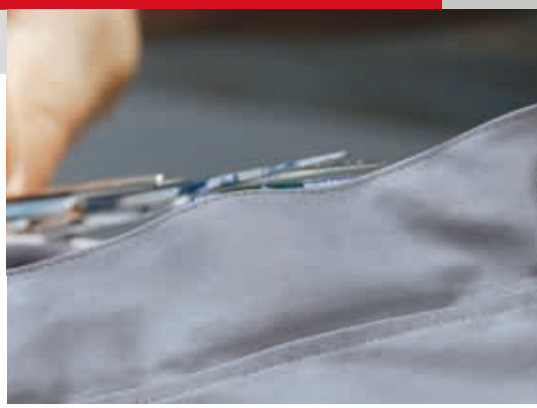


Type of marking	Positions →	1 Chest: *Area: Height 5 cm x Width 10 cm*	2 Back: *Area: Height 5 cm x Width 10 cm*
Embroidered logo	*A maximum of 3 colors*	• Ref.: 14 990 10	• Ref.: 14 990 12
Heat-sealed logo		• Ref.: 14 990 09	• Ref.: 14 990 11

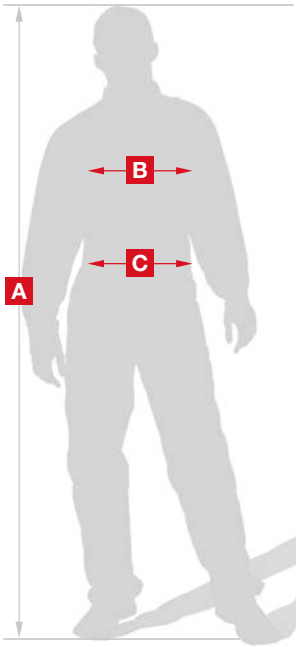
* From 100 pieces ordered *(all sizes included)*

Technical Workwear

Size Guide and washing instructions



TAKING MEASUREMENTS: Measurements must be taken directly on the body, and not too tight. When measurements are between two sizes, choose the smaller one for a tighter fit and the larger one if you prefer a looser fit.



CHOOSE YOUR SIZE

A HEIGHT: measure from the top of the head to the floor, barefoot with heels together.

B CHEST SIZE: measured at the largest point.

C WAIST SIZE: it is to be measured horizontally, at the indentation of the waist.

A Height (in cm)	158-164	164-170	164-170	170-176	176-182	182-188	188-194
B Chest (in cm)	76-84	84-92	92-100	100-108	108-116	116-124	124-132
C Waist (in cm)	64-72	72-80	80-88	88-96	96-104	104-112	112-120
► Sizes	**34 36**	**38 40**	**42 44**	**46 48**	**50 52**	**54 56**	**58 60**
► Order sizes	**XS**	**S**	**M**	**L**	**XL**	**XXL**	**XXXL**

WASHING INSTRUCTIONS

- for a color wash, use washing powders without whitening agents if possible.
- to avoid transfer of flammable fibers, wash fire retardant garments separately.
- avoid excessive soiling of the clothing so as not to alter its protection properties.

WASHING SYMBOLS

1 Washing
- 60°: • Maximum temperature 60°C • Delicate cycle
- 40°: • Maximum temperature 40°C • Delicate cycle
- • Hand wash only
- • Do not dry clean

2 Bleach
- • No bleach/whitening permitted

3 Tumble dry
- • Tumble drying permitted at a moderate temperature • Maximum temperature 60°C
- • Do not tumble dry

4 Dry cleaning
- P: • Dry cleaning permitted using perchlorethylene
- • Do not dry clean

5 Iron
- • Maximum temperature 150°C
- • Maximum temperature 110°C
- • Do not iron • No steam

Category 2 - Intermediate hazards.

EN ISO 13034:2009 (Type 6) | EN ISO 11612:2008 (A1-B1-C1-E2) | EN ISO 11611:2007 (A1-Class 1) | EN ISO 1149-5:2008

The Multisafe clothing range benefits from the comfort of cotton and resistance of polyester/polyamide, while offering 4-in-1 protection: against heat and flame, electrostatic, chemical and welding hazards.

Multisafe

Multirisk Sectors of Activity:

- Petrochemical
- Chemical
- Refinery
- Offshore
- Gas and oil distribution (supply and maintenance)
- Transport
- Electricity production
- Telecommunications

COMPOSITION:

- **250g/m²:** 84% cotton, 15% polyamide, 1% antistatic fiber.
- **350g/m²:** 64% cotton, 35% polyester, 1% antistatic fiber.
- **TREATMENT:** flame-retardant and fluorocarbon.
- **SEAMS:** aramid thread.

Marking available strips and logos (see p. 266)

Multisafe jacket

FEATURES & BENEFITS

Sizes XS to XXXL

- Shirt collar.
- Press-stud fastening and double flaps (inside and outside).
- Semi-elasticated wrist adjustment.
- Waist with elasticated sides.
- 3 patch pockets: 1 left breast pocket and 2 lower pockets with flap and press-stud.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.	Colors	Weight
14 120 70	Blue	250g
14 120 94	Blue	350g

Multisafe Pants

FEATURES & BENEFITS

Sizes XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 right back pocket and 1 right leg side pocket with flap and press-stud.
- Straight leg.
- Retro-reflective label with standard pictograms on the left knee.

Ref.	Colors	Weight
14 120 93	Blue	250g
14 120 96	Blue	350g

Category 2 - Intermediate hazards.

Multisafe Coverall

FEATURES & BENEFITS

Sizes XS to XXXL

- Shirt collar
- Two-way zip fastening with double inner flap and outer flap with press-studs.
- Semi-elasticated wrist adjustment.
- Elasticated at the waist.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 left breast pocket and 1 right leg side pocket with flap and press-stud.
- Straight leg.
- Retro-reflective label with standard pictograms on the right leg.

Ref.	Colors	Weight
14 120 89	Blue	250g
14 120 98	Blue	350g

Multisafe Shirt

EN ISO 1149-5:2008

EN ISO 11612:2008 (A1-B1-C1)

COMPOSITION:

- **165g/m²:** 68% cotton, 30% Kermel®, 2% antistatic fiber.

FEATURES & BENEFITS

Sizes S to XXXL

- Shirt collar.
- Press-stud fastening with flap.
- Wrist adjustment using 2 press-studs.
- 1 left patch breast pocket with flap and press-stud.

Ref.
14 158 48

The two press-studs at the wrist make it easy to add a glove.

Category 2 - Intermediate hazards.

EN ISO 13034:2009 (Type 6) | EN ISO 11612:2008 (A1-B1-C1-F1 only for 220 g) | EN ISO 1149-5:2008

An exclusive combination of Nomex® and Kevlar® fibers gives Nomex® clothing not only excellent heat protection but also added abrasion, tear and chemical resistance. Both resistant and lightweight, the Nomex® range provides a safe and comfortable workwear solution.

- **NOMEX® COMFORT COMPOSITION (= Delta C):** 93% Nomex®, 5% Kevlar®, 2% antistatic fiber.
- **TREATMENT:** fluorocarbon.
- **SEAMS:** aramid thread.
- **WEIGHT:** 165g to 220g.

Marking available
strips and logos (see p. 266)

Multisafe Comfort

Multisafe Comfort Jacket

FEATURES & BENEFITS — **Sizes** XS to XXXL

- Shirt collar.
- Press-stud fastening and double flap (inside and outside).
- Semi-elasticated wrist adjustment.
- Waist with elasticated sides.
- 4 patch pockets: 2 breast pockets and 2 lower pockets with flap and press-stud.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.	Colors	Weight
14 151 30	Blue	165g
14 151 40	Blue	220g

Multisafe Comfort Coverall

FEATURES & BENEFITS — **Sizes** XS to XXXL

- Shirt collar.
- Two-way zip fastening with inner flap and outer flap with press-stud fastening.
- Semi-elasticated wrist and waist adjustment.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 left breast pocket and 1 right leg side pocket with flap and press-stud
- Straight leg.
- Retro-reflective label with standard pictograms, on the right leg.

Ref.	Colors	Weight
14 151 34	Blue	165g
14 151 36	Blue	220g

Multisafe Comfort Pants

FEATURES & BENEFITS — **Sizes** XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 at back on the right-hand side and one on the side of the left knee with flap and press-stud.
- Straight leg.
- Retro-reflective label with standard pictograms, left leg.

Ref.	Colors	Weight
14 151 31	Blue	165g
14 151 41	Blue	220g

Category 2 - Intermediate hazards.

EN ISO 14116:2008 EN ISO 1149-5:2008

Flame-retardant and antistatic, the UnderPro products are worn beneath a jacket, pants, coverall, etc. Lightweight, soft and supple, they ensure added protection and keep the body warm and dry.

UnderPro

- **COMPOSITION:** 55% modacrylic, 43% cotton and 2% antistatic fiber.
- **SEAMS:** aramid thread.
- **WEIGHT:** 205g/m²
- **COLOR:** dark blue.

UnderPro hood

FEATURES & BENEFITS

Sizes one size

- Hood with front flap and wide shoulder coverage.
- Can be worn under a helmet. Length: 45cm.

Ref.
14 100 09

Category 3 - Serious or fatal hazards.

The **AluPro** range offers head-to-toe protection for the user against accidental contact with a flame, molten aluminum and metal splashes, convective heat and high radiant heat (C3 performance). Worn in extreme heat conditions, AluPro equipment is resistant and long-lasting.

EN ISO 11612:2008
(A1-B1-C3-D3-E3-F1)

AluPro

AluPro/AllPro sectors of activity:

- Foundry
- Steel industry
- Metal and steel industry
- Steelworks
- Glassworks
- Brick manufacturing

- **COMPOSITION:** 100% aluminized para-aramid.
- **SEAMS:** aramid thread.
- **WEIGHT:** 465g/m²
- **COLOR:** aluminum.

Double safety closure via inner flap using Velcro® and press-studs covered by a flap.

AluPro Jacket

FEATURES & BENEFITS

Sizes S to XXXL

- Mao collar, Velcro® fastening.
- Collar is lined for greater comfort, 100% flame-retardant-treated cotton inner lining.
- Press-stud wrist adjustment.
- Length: 90cm.

Ref.
14 10F 34

AluPro Pants

FEATURES & BENEFITS

Sizes S to XXXL

- Centre press-stud and flap fastening.
- Collar is lined for greater comfort, 100% flame-retardant-treated inner lining.
- Adjustable straps for support.
- Straight leg.

Ref.
14 10F 35

AluPro Gaiters

FEATURES & BENEFITS

Size one size

- Total top-of-the-foot coverage.
- Lateral fastening with wide Velcro® strips.
- Leather support strap under the sole with adjustable buckle.
- Length: 45cm.
- Packed: in pairs.

Ref.
14 100 03

AluPro Coat

FEATURES & BENEFITS

Sizes S to XXXL

- Mao collar, Velcro® fastening.
- Collar is lined for greater comfort, with 100% flame-retardant-treated cotton.
- Double safety fastening via inner flap with Velcro® and press-stud covered by a flap.
- Length: 115cm.

Ref.
14 101 13

Wrist adjustment with press-studs.

AluPro Apron

FEATURES & BENEFITS

Sizes one size

- Apron with adjustable straps at the neck and waist.
- Comfortable and practical: straps designed in 100% flame-retardant-treated cotton with adjustable plastic buckles.
- Length: 100cm.

Ref.
14 100 33

AluPro Hood

FEATURES & BENEFITS

Sizes one size

- Padded, built-in hood.
- Wide shoulder coverage.
- Large tempered glass, gold coated, curved visor.
- Interchangeable visor - ref. 9600013.000

Ref.
14 101 55

Adjustable underarm elastics to fix and hold the hood in place.

Category 2 - Intermediate hazards.

EN ISO 11612:2008 (A1-B1-C1-E2)

EN ISO 11611:2007 (A1- Class 1)

FlamePro1

FlamePro1 clothing is intended to protect the user against small molten metal splashes, short-term contact with flame and radiant heat from the arc. Selected for many applications, they are comfortable, affordable and efficient.

FlamePro1/FlamePro2 sectors of activity:
- Welding
- Heavy lifting
- Transport
- Maintenance

- **COMPOSITION:** 100% cotton.
- **TREATMENT:** flame-retardant.
- **SEAMS:** aramid thread.
- **WEIGHT:** 335g/m²
- **COLOR:** green.

Marking available strips and logos (see p. 266)

Double safety closure via inner flap using Velcro® and press-studs covered by a flap.

FlamePro1 Jacket

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, Velcro® fastening.
- Semi-elasticated wrist adjustment.
- 3 patch pockets: 1 left breast pocket and 2 lower pockets with flap and press-stud.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.
41 118 14

FlamePro1 Pants

FEATURES & BENEFITS

Sizes XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 at the back on the right-hand side, and 1 on the side of the left leg with flap and press-stud.
- Reinforcement at the knees: limits the risk of tearing.
- Straight leg.
- Retro-reflective label with standard pictograms on the left leg.

Ref.
41 118 12

Products on this page are not sold in UK

FlamePro1 Coverall

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, Velcro® fastening.
- Two-way zip fastening and flap with Velcro®.
- Elasticated at the waist.
- Reinforcement at the knees: limits the risk of tearing.
- Semi-elasticated wrist adjustment.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 left breast pocket and 1 at side of right knee with flap and press-stud.
- Straight leg.
- Retro-reflective label with standard pictograms on the right leg.

Ref.
41 118 08

FlamePro1 Hood

FEATURES & BENEFITS

Size one size

- Wide shoulder coverage.
- Can be worn with a helmet
- Retro-reflective label with standard pictograms on the lower left-hand side.

Adjustable front flap, Velcro® fastening.

Ref.
41 018 13

Products on this page are not sold in UK

Category 2 - Intermediate hazards.

EN ISO 11611:2007
(A1- Class 2)

FlamePro2

The **FlamePro2** range of clothing has been designed to protect welders against molten metal splashes. Resistant and durable, they can be worn alone or in addition to the FlamePro1 line for more hazardous applications.

- **COMPOSITION ACCORDING TO THE PRODUCT:** split leather, grain leather, 100% cotton fabric (360g/m²).
- **TEXTILE TREATMENT:** flame-retardant.
- **SEAMS:** Kevlar® para-aramid thread
- **COLOR:** gray/blue.

Press-studs at the wrist allow for easy adjustment and enable gloves to be worn in comfort.

FlamePro2 Jacket

FEATURES & BENEFITS

Sizes M to XXL

- Mao collar in 100% flame-retardant cotton with Velcro® fastening.
- Press-stud fastening with flap.
- Upper front and complete back of the jacket in 100% flame-retardant cotton: flexible, lightweight and reflects the heat.
- Press-stud wrist adjustment.

Ref.	Description
41 049 32	Split leather jacket
41 049 33	Grain leather jacket

Upper front and complete back of the jacket in 100% flame-retardant cotton for added comfort

FlamePro2 Pants

FEATURES & BENEFITS

Sizes M to XXL

- Front of pants in split leather.
- Back in 100% flame-retardant cotton.
- Belt loops in Blue split leather.
- Waist lined in 100% flame-retardant cotton.
- Press-stud fastening.
- Straight leg.

Ref.
41 049 34

Products on this page are not sold in UK

FlamePro2 Apron

FEATURES & BENEFITS

- Two-tone apron in gray and blue split leather (heat retro-reflective).
- Comfortable and resistant: apron adjustable using straps around the neck and waist, in 100% flame-retardant cotton, with plastic buckle fastening.
- Available in two lengths: 90cm and 110cm.

Ref.	Description
41 011 80	Apron 90 cm
41 004 80	Apron 110 cm

FlamePro2 Cuffs

FEATURES & BENEFITS

Size one size

- Split leather sleeves protect the forearm.
- Elasticated at both ends: better support and an easy fit with gloves.
- Length: 40cm.
- Packed: in pairs.

Ref.
43 027 26

FlamePro2 Gaiters

FEATURES & BENEFITS

Size one size

- Split leather gaiters with double Velcro® lateral fastening: one size fits all, and remain resistant.
- Covers the entire shoe.
- Double fastening with understrap and plastic buckle loop.
- Packaged: in pairs.

Ref.
43 052 21

Products on this page are not sold in UK

Category 3 - Serious or fatal hazards.

IEC 61482-2:2009 (Class 2)

EN ISO 11612:2008 (A1-B1-C1-E2-F1)

Resistant, thick and comfortable, **ElecPro1** workwear combines the performance and design necessary for electric arc protection.

ElecPro1

ElecPro1/ElecPro2 sectors of activity

- Work or intervention on high voltage electrical installations (> 1000 volts):
  - Electricity generation
  - Transformers
  - Distribution

- **COMPOSITION:** 75% cotton, 24% polyester, 1% antistatic fiber.
- **TREATMENT:** flame-retardant.
- **SEAMS:** aramid thread.
- **WEIGHT:** 600g/m^2: double layer: 300 + 300g/m^2
- **COLOR:** blue.

ElecPro1 Jacket

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, Velcro® fastening.
- Inside and outside flaps closed by press-studs and Velcro® fastening.
- Semi-elasticated wrist adjustment.
- 2 lower pockets with flap and Velcro®.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.
14 120 01

ElecPro1 Pants

FEATURES & BENEFITS

Sizes XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 3 pockets: 2 slanted waist pockets, 1 patch pocket at the back with flap and Velcro® fastening.
- Straight leg.

Ref.
14 120 02

Category 3 - Serious or fatal hazards.

IEC 61482-2:2009 (Class 2)

EN ISO 11612:2008 (A1-B1-C1-E1)

Supple, high-performance, comfortable and designed with built-in fibers (for lasting protection), the **ElecPro2** range combines the utmost protection with the comfort and flexibility of premium quality fabrics.

ElecPro2

- **COMPOSITION:** 250g/m²: 49% modacrylic, 42% cotton, 5% para-aramid, 3% polyamide, 1% antistatic fiber • 255g/m²: 93% para-aramid, 5% meta-aramid, 2% antistatic fiber.
- **SEAMS:** aramid thread.
- **WEIGHT:** 505g/m²: double layer: 250 + 255g/m²
- **COLOR:** dark blue.

ElecPro2 Jacket

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, Velcro® fastening.
- Inside and outside flaps closed by press-studs and Velcro® fastening.
- Semi-elasticated wrist adjustment.
- 2 lower pockets with flap and Velcro®.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.
14 120 07

ElecPro2 Pants

FEATURES & BENEFITS

Sizes XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 3 pockets: 2 slanted waist pockets, 1 patch pocket with flap and Velcro®.
- Straight leg.

Ref.
14 120 08

Category 3 - Serious or fatal hazards.

EN 469:2005 EN 1149-5:2008

Lightweight and effective, the **FirePro** set ensures protection against hazards of contact with fire, convective heat, radiant heat and hazards associated with the build-up of electrostatic charges.

FirePro

FirePro sectors of activity

- In industries with a high risk of fires, for emergency action

- **OUTSIDE COMPOSITION:** Nomex® Comfort (93% Nomex®, 5% Kevlar® and 2% antistatic fiber) - 220g/m²
- **INSIDE COMPOSITION:** padding: aramid fiber + waterproof membrane (flame-retardant PU) - 200g/m²
- **LINING COMPOSITION:** meta-aramid/viscose - 120g/m²
- **SEAMS:** aramid thread.
- **COLOR:** dark blue and orange.

Added safety: inside flap, zip fastening, covered by flap with Velcro®

FirePro Parka

FEATURES & BENEFITS

Sizes S to XXXL

- High Mao collar with large protective flap and Velcro® fastening.
- Semi-elasticated wrist adjustment and Velcro® fastening.
- Thumb loop for increased stability.
- 3 patch pockets: 1 microphone breast pocket with Velcro® fastening and 2 waist pockets with Velcro® fastening.
- Yellow and gray retro-reflective strips around the body and arms, and yellow at the waist.

Ref.	Description
14 300 21	Blue
14 300 24	Orange

Thumb loop for good stability

FirePro Over-pants

FEATURES & BENEFITS

Sizes S to XXXL

- Zip fastening, covered by flap and press-stud.
- Semi-elasticated waist adjustment.
- Adjustable straps with plastic buckles.
- Reinforcement at the knees: limits the risk of tearing.
- 2 side patch pockets with Velcro® fastening.
- 2 yellow and gray retro-reflective strips under the knees.

Ref.	Description
14 200 31	Blue
14 300 34	Orange

Apipic

Complete head-to-toe clothing, the **Apipic** coverall protects the user against insect bites and prevents wasp and hornet stings.

The yellow color allows for easy detection of any insects that may be on the coveralls.

Apipic sectors of activity

- For specialized professionals to destroy swarms of hornets or wasps.

- **COMPOSITION:** 100% polyamide.
- **TREATMENT:** Neoprene® coating.
- **SEAMS:** polyester thread.
- **WEIGHT:** 310g/m²
- **COLOR:** yellow.

Apipic Coverall

FEATURES & BENEFITS

Sizes M - L - XL

- Coverall with built-in helmet inside, fastened with two press studs.
- Interchangeable steel visor (ref. 9300061) fastened to the hood using Velcro®.
- Zip fastening design is across the body and around the head for ease of wear.
- Gloves with PVC-coated cotton base.
- Elasticated at the wrist and ankles.
- Mesh ventilation under the arms for comfort and ventilation.

Ref.
41 118 30

Trouser legs closed by Velcro® and press studs for secure fit over safety boots.

Reusable Protective Clothing

Chemical Protection

Category 2 - Intermediate hazards.

EN 1149-5 :2008

EN 13034: 2009
Type 6

The complete ChemPro range offers dual protection: both chemical and antistatic, while ensuring comfort, breathability and resistance. The finish gives the user ease of movement and comfort when worn throughout the day.

ChemPro

ChemPro sectors of activity:

- Chemical
- Health professions
- Decommissioning
- Electronics
- Telecommunications
- Galvanizing
- Food industry
- Automobile painting

- **COMPOSITION:** 64% polyester, 35% cotton, 1% antistatic fiber.
- **TREATMENT:** fluorocarbon.
- **SEAMS:** polyester thread.
- **WEIGHT:** 245g/m^2
- **COLOR:** gray.

Marking available strips and logos (see p. 266)

ChemPro Jacket

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, press-stud fastening.
- Double safety fastening, inside flap with Velcro®, covered by outside flap with press-studs.
- 3 patch pockets: 1 left breast pocket and 2 lower pockets with flap and press-stud.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.
14 120 50

Semi-elasticated wrist adjustment

ChemPro Pants

FEATURES & BENEFITS

Sizes XS to XXXL

- Zip fastening with flap and press-stud.
- Belt loops and side-elasticated waist.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 at back on the right-hand side and 1 side on the left leg with flap and press-stud
- Straight leg.

Ref.
14 120 51

Retro-reflective label with standard pictograms.

ChemPro Coverall

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, press-stud fastening.
- Two-way zip fastening with flap closed by press-studs.
- Elasticated at the waist.
- Semi-elasticated wrist adjustment.
- 4 pockets: 2 slanted waist pockets with flap and 2 patch pockets: 1 at back on the right-hand side and 1 side on the left leg with flap and press-stud
- Straight leg.
- Retro-reflective label with standard pictograms on the right leg.

Ref.
14 120 36

1 left breast pocket and 2 lower pockets with flap and press-stud

ChemPro Smock

FEATURES & BENEFITS

Sizes XS to XXXL

- Mao collar, press-stud fastening.
- Double safety fastening, inside flap with Velcro®, covered by outside flap with press-studs.
- Semi-elasticated wrist adjustment.
- 3 patch pockets: 1 left breast pocket and 2 lower pockets with flap and press-stud.
- Retro-reflective label with standard pictograms at the bottom right-hand side.

Ref.
14 120 23

Category 3 - Serious or fatal hazards.

EN 14605/A1 : 2009

Guardian

The Guardian range has been designed for people involved in maintenance, industrial cleaning, heavy lifting, dealing with chemical accidents, sanitation, alkylation operations, etc.
Made from neoprene, the coveralls, aprons and cuffs provide high chemical and mechanical resistance. All models have been developed to offer maximum comfort to users.

- **COMPOSITION:** Polyamide coated on both sides with Neoprene
- **WEIGHT:** 360g/m²
- **COLOR:** Yellow and gray.

FEATURES & BENEFITS OF COVERALLS

- Neoprene provides excellent chemical resistance.
- Good mechanical resistance.
- Antistatic material with performance of $10e^{10}$ ohms according to the EN 1149-1 standard.
- Flame retardant material, limiting the propagation of flames, M2 performance according to the NFP 92507 standard.
- Velcro® at the wrists for a better fit.
- Enhanced protection with its double flap with Velcro® fastening.

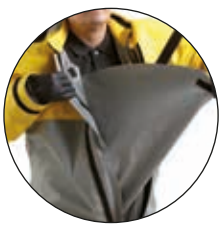
Guardian Plus Coverall

Type 3, 4

Sizes S to XXL

- Hooded coverall with gloves included and adapter for easy replacement.
- Velcro® at the wrists for a better fit.
- Enhanced protection with its inner gusset and double flap with Velcro® fastening.
- Hood can be changed - (Ref. A163422).

Ref.	Description
A164223	Guardian Plus Coverall



Guardian Cuff

Type 3 (PB)

Size One size

FEATURES & BENEFITS

- Length: 49cm
- Color: yellow
- Neoprene provides excellent chemical resistance.
- Good mechanical resistance.
- Antistatic material with performance of $10e^{10}$ ohms according to the EN 1149-1 standard.
- Flame retardant material, limiting the propagation of flames, M2 performance according to the NFP 92507 standard.

Ref.	Description
A164021	Guardian Cuff

Guardian Coverall

Type 4

Sizes S to XXL

- Coverall with collar.
- Enhanced protection with its double flap with Velcro® fastening.
- Option to attach a hood (Ref. A163422).

Ref.	Description
A164221	Guardian Coverall

Guardian Super Coverall

Type 3, 4

Sizes S to XXL

- Coverall with collar.
- Velcro® at the ankles for a better fit.
- Enhanced protection with its inner gusset and double flap with Velcro® fastening.
- Option to attach a hood (Ref. A163422).
- Double-elasticated ankles for a better fit.
- Reinforcement at the knees.

Ref.	Description
A164225	Guardian Super Coverall

Guardian Apron

Type 3 (PB)

FEATURES & BENEFITS OF APRONS

Size One size

- Neoprene provides excellent chemical resistance.
- Good mechanical resistance.
- Antistatic material with performance of $10e^{10}$ ohms according EN 1149-1.
- Flame retardant material, limiting the propagation of flames, M2 performance according to the NFP 92507 standard.
- Adjustable strap for a better fit.

Ref.	Description
A164691	Guardian Apron 70x90
A164715	Guardian Apron 70x120

Category 1 - Minor hazards.

Made of polyester coated on one side with PVC, the Splash coverall provides very good mechanical resistance. It has been designed for industrial cleaning, maintenance, services, etc.

Splash Coverall

FEATURES & BENEFITS

Sizes S to XXL

- Good mechanical resistance.
- Enhanced protection with its inner gusset and double flap with Velcro®
- Gloves included
- Integrated PVC boots with steel toe caps

Ref.	Designation	Weight	Color
A164380	Coverall with hood	700g/m²	Green

Northylon

Category 3 - Serious or fatal hazards.

EN 14605/A1 : 2009

Type 4

The Northylon range has been designed for people involved in maintenance, industrial cleaning and heavy lifting.

Made of polyamide coated on both sides with 400g/m² PVC, the coveralls, aprons (also available in 650g/m²) and cuffs provide excellent chemical and mechanical resistance.

Northylon Coverall

FEATURES & BENEFITS

Sizes S to XXXL

- Polyamide provides excellent mechanical resistance.
- Good chemical resistance.
- Enhanced protection with its double flap and press stud over the zip.
- **WEIGHT:** 400g/m²
- **COLOR:** Green.

Name	Ref.	Description
Northylon C SWA	**N71200x10**	Coverall with collar
Northylon H SWA	**N71250x10**	Coverall with hood
Northylon H EWSA	**N71252x10**	Coverall with hood, elasticated wrists
Northylon H EWA	**N71254x10**	Coverall with hood, elasticated wrists and ankles

Northylon Aprons

Type 4PB

FEATURES & BENEFITS

Size One size

- Adjustable strap.
- Polyamide provides excellent chemical resistance.
- Good mechanical resistance.

Name	Ref.	Dimensions	Weight	Color
Northylon Light N42	**N70462910**	106x91	400g/m²	Green
Northylon Light N48	**N70463910**	121x91	400g/m²	Green
Northylon Heavy A48	**N70453935**	121x91	650g/m²	Brown
Northylon Heavy A48	**N70453936**	121x91	650g/m²	White

Northylon Hoods

Type 4PB

Size One size

FEATURES & BENEFITS

- Polyamide provides excellent chemical resistance.
- Good mechanical resistance and durability.

Name	Ref.	Description
Northylon FS2N	**N72750002**	Hood with polycarbonate visor and breastplate
Northylon FS2N	**N72772999**	Green spare visor
Northylon FS3N	**N72750003**	Hood with polycarbonate visor and neck guard
Northylon FS3N	**N72773999**	Green spare visor
Northylon FS5N	**N72750005**	Hood with polycarbonate visor and wide breastplate

FS2N hood

FS3N hood

FS5N hood

Northylon Cuff

FEATURES & BENEFITS

Size One size

- Length: 39cm
- Polyamide provides excellent chemical resistance.
- Good mechanical resistance.
- **WEIGHT:** 400g/m²
- **COLOR:** Green.

Ref.	Description
N71501910	Northylon Cuff

Northylon BG2 coverall

Type 4

The Northylon BG2 range has been designed for people involved in chemical/petrochemical industry, maintenance and industrial cleaning.
Double-side PVC coated Nylon®, 280g/m², the coveralls Northylon BG2, provide excellent chemical and mechanical resistance.

FEATURES & BENEFITS

Sizes S to XXL

- Hooded model
- Elasticated wrist & ankle
- Zipper covered by a press-stud flap
- Dorsal ventilation for an excellent confort
- Stitched & welded seams
- **WEIGHT:** 280g/m²
- **COLOR:** Green & blue.

Name	Ref.	Description
Northylon BG2 H EWA	**N72254x*10**	Hood, Elasticated Wrist & Ankle coverall
Northylon BG2 H DBEWA	**N72257x*10**	Hood, DouBle Elasticated Wrist & Ankle coverall

***Sizes guide:**
Example: N72254010 = Size S
0 = Size S
1 = Size M
2 = Size L
3 = Size XL
4 = Size XXL

Double elasticated wrist & ankle

Category 3 - Serious or fatal hazards.

EASYCHEM

EN 943-1

- **COMPOSITION:** Orange polyamide fabric coated on both sides with a 650g/m² elastomer

FEATURES & BENEFITS

Applications:
Chemical, pharmaceutical and petrochemical industries, emergency services, etc.

Added safety:
- **Liquid tight seal** with flap.
- **Excellent mechanical resistance**.
- SCBA inside or outside the outfit.

Ergonomics:
- **Fitted with a valve** to prevent internal overpressure peaks.
- **Welded boots** and gloves that can be easily changed.

Use:
- Reusable.

Packaging:
- 1 outfit / box.

Option:
- **Easychem 1a** (SCBA inside the coverall).
- **Easychem 1b** (SCBA outside the coverall).

Ref.
CC8Y0X07T

EASYCHEM 1A Type 1a

EASYCHEM 1B Type 1b

PATROL

Type 1b EN 943-1

- **COMPOSITION:** Neoprene (Nylon double-sided coated Chloroprene) 360g/m². Yellow (grey inside). Weight: 5,7kg

FEATURES & BENEFITS

Sizes M to XXL

Applications:
Chemical/Petrochemical industries, utilities, urgency services.

Enhanced protection:
- Hooded model with a gas-proof elastic foam rubber
- Included nitrile gloves with o-ring system
- Sealed nitrile rubber safety boots
- Gas tight zipper
- Must be worn with a full face mask + Self Contained Breathable Apparatus (SCBA) - not supplied
- SCBA worn outside the suit

Advantages:
- High chemical & mechanical resistance
- Optimal protection
- Gastight
- Ergonomics

Ref.
A140340

GREASING PEN

Ref. A161440

- Greasing makes zipper manipulation easier.

Ne-Hon™ 6
The 1st certified HV single use coverall of the market!

Stay safe and visible at all times with Ne-Hon™ 6!
In addition to superb comfort, Ne-Hon™ 6 protects reusable high-visibility clothing during messy activities, allowing you reducing the cost of laundry and ensure the safety of the user at all times. Very lightweight and even more breathable than a cotton t-shirt!

www.honeywellsafety.com

Honeywell | Industrial Safety

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Single Use Protective Clothing

Introducing the 4 pillars to help you select the right Protective Clothing solution

WORKWEAR & TECHNICAL WORKWEAR

Certified and non-certified textile based products

REUSABLE PROTECTIVE CLOTHING

Reusable Chemical suits

SINGLE USE PROTECTIVE CLOTHING

The largest range of single use coveralls

VENTILATED PROTECTIVE CLOTHING

Ventilated suits and hoods for nuclear and pharmaceutical industries

SINGLE USE COVERALLS ARE USED MAINLY IN THE FOLLOWING SECTORS OF ACTIVITY:

CHEMICAL-PETROCHEMICAL / LABORATORIES / WASTE DISPOSAL / ASBESTOS REMOVAL / INDUSTRIAL CLEANING / INDUSTRIAL MAINTENANCE / INDUSTRIAL PAINTING / AUTOMOBILE / MECHANICAL WORK / FARMING / FOOD INDUSTRY / POLICE / ELECTRONICS / EMERGENCY SERVICE / MEDICAL SECTOR / PHARMACEUTICAL INDUSTRY / HUMANITARIAN / HEALTH / CATERING / TRANSPORT OF HAZARDOUS SUBSTANCES...

Honeywell Industrial Safety : Specialist in single use products

The experience acquired over 30 years in the production of coveralls as well as knowledge in the requirements of industries as varied as chemical, construction, food, petrochemical, pharmaceutical, telecommunications, utilities and many others, gives Honeywell expertise in developing the best personal protection.

Honeywell Industrial Safety pays close attention to product design by meeting all requirements of the standards as well as those regarding comfort and practical use. As a result of its international facilities, Honeywell Industrial Safety is able to respond effectively to the expectations of professionals around the world.

This helps encourage the systematic wearing of protective equipment and consequently improves personal protection on a daily basis.

Single Use Protective Clothing

European Standards

The European Economic Community adopted Directive 89/686/EEC in 1989, which defines the requirements that must be met by Personal Protective Equipment in order to preserve the health and safety of users.

THE HAZARDS ARE DIVIDED INTO THREE CATEGORIES:

Category 1	**Minor hazards**
Category 2	**Intermediate hazards**
Category 3	**Serious or fatal hazards**

Pictogram	Description	Standards
	Chemical protection - Types 3, 4, 5 and 6	EN 14605 Types 3 and 4 EN 13982-1 Type 5 - EN 13034 Type 6
	Protection against the build-up of electrostatic charges*	EN 1149-5
	High visibility clothing	EN 20471:2013
	Protection against biological agents	EN 14126
	Protection against radioactive contamination** in the form of particles	EN 1073-2
FR	Protection against the propagation of flames***	EN 14116 (new norm EN533)
M1	Protection against the propagation of flames***	NFP 92 - 507
ATEX	Group IIIA, IIIB, IIIC, dust zones 21 & 22	EN 13463-1:2009

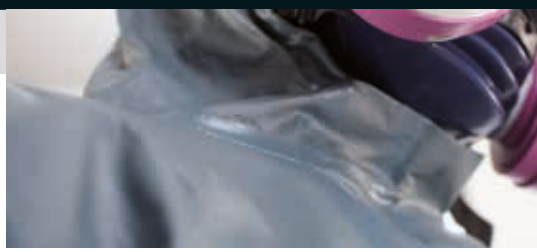
* To ensure proper grounding, static electricity cannot be managed in an separate garments (jacket, pants, etc.) but always within a complete system of antistatic equipment.
** Does not protect against radiation - *** Does not protect against flames - Limited burning if it catches fire - Not for use in the event of fire.

TO HELP YOU CHOOSE THE RIGHT PROTECTIVE CLOTHING, 6 LEVELS OF PROTECTION OR 'TYPES' - HAVE BEEN DEFINED BY THE EUROPEAN UNION:

Type	Pictogram	Description	Standards
Type 1		Gas-tight clothing	EN 943-1 EN 943-2
Type 2		Non gas-tight clothing	EN 943-1
Type 3		Protection against liquid chemicals in the form of jets (high speed projection)	EN 14605
Type 4		Protection against liquid chemicals in the form of spray	EN 14605
Type 5		Protection against solid chemicals suspended in the air (solid particles)	EN 13982-1
Type 6		Protection against liquid chemicals in the form of small splashes	EN 13034

Single Use Protective Clothing

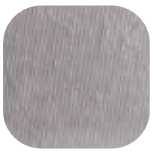
Quality materials for optimized protection.



- **Polyethylene**
  - (SPACEL® 3000, 4000).

- Excellent mechanical resistance (tearing, perforation, abrasion and stress).
- Good elongation.
- Good chemical resistance.
- Watertight.

- **Gray laminated polypropylene, polyethylene and EVOH**
  - (SPACEL® Comfort Heavy).



- Excellent chemical resistance.
- Excellent mechanical resistance (tearing, perforation, abrasion and stress).
- Watertight.

- **Non-woven polypropylene**
  - (Mutex® E Light, Deltasafe, etc.).
- **Viscose** - (Essian FR)

- Lightweight.
- Breathable.
- Comfortable.

- **Non-woven polypropylene laminated with a microporous film**
  - (Mutex/Spacel®)

- Lightweight.
- Flexible.
- Resists liquid penetration.
- Comfortable.

- **Non-woven polypropylene laminated with a barrier film** - (SPACEL® C Light or Medium).
- **Viscose coating** - (SPACEL® Comfort FR).

- Excellent mechanical resistance (tearing, perforation, abrasion and stress).
- Very good chemical resistance.
- Watertight.
- Comfortable.

- **Polyester**
  - (Ne-Hon™ 6)

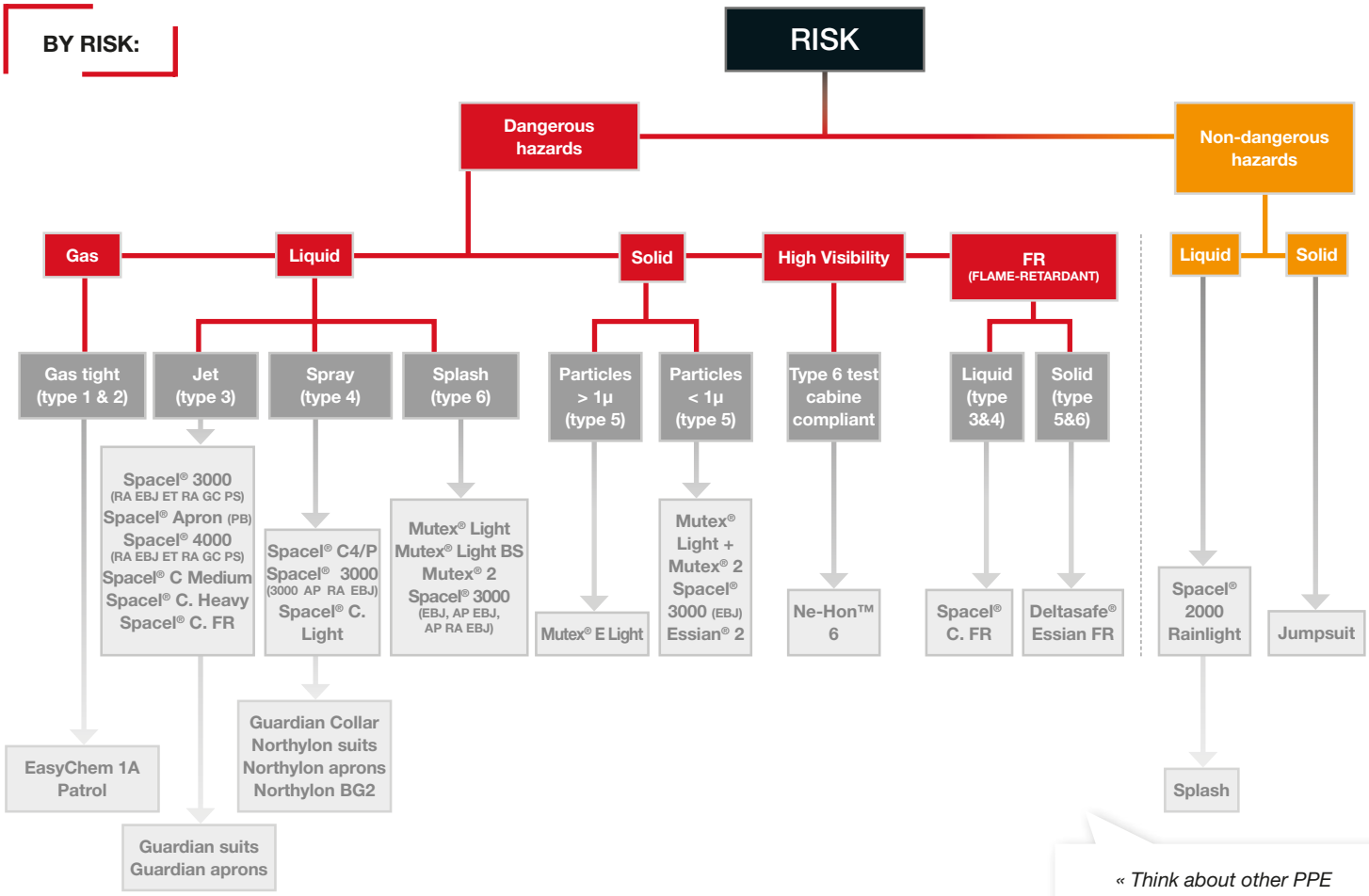
- Lightweight
- Breathable
- High visibility orange
- Water repellent treatment

References	Descriptions	Categories	Type 3	Type 4	Type 5	Type 6	EN 1149	EN 14126	EN 1073-2	EN 533 EN 14116	NFP 92507	EN ISO 20471
45 094 46	Ne-Hon™ 6	3				X*						X
45 001 01	MUTEX® E Light	3			X	X	X		X			
45 002 00	ESSIAN® 2 White	3			X	X	X		X			
45 002 10	ESSIAN® 2 Blue	3			X	X	X		X			
45 005 01	MUTEX® Light +	3			X	X	X	X	X			
41 800 02	MUTEX® 2	3			X	X	X	X	X			
45 005 05	MUTEX® Light BS	3			X	X	X	X	X			
45 714 50	DELTASAFE®	3			X	X	X		X	X	X	
45 003 00	ESSIAN® FR	3			X	X	X		X	X		
45 006 01	SPACEL® C4	3		X	X	X	X	X	X			
45 006 11	SPACEL® C4P	3		X	X	X	X	X	X			
45 030 02	SPACEL® 3000 EBJ	3			X	X		X				
45 030 00	SPACEL® 3000 RA EBJ	3	X	X	X	X		X				
45 040 00	SPACEL® 4000 RA EBJ	3	X	X	X	X		X				
45 060 00	SPACEL® C Medium	3	X	X	X	X		X	X			
45 070 00	SPACEL® COMFORT Heavy	3	X	X	X	X	X	X	X			
45 080 00	SPACEL® COMFORT FR	3	X	X			X			X		
41 801 43	JUMPSUIT White	1										
45 714 35	JUMPSUIT Blue	1										
45 030 05	SPACEL® 3000 APRON	3	X					X				
45 750 45	RAINLIGHT	1										
41 801 30	SPACEL® 2000 EBJ	1										

*: Type 6 test cabinet compliant

Single Use Protective Clothing - Quick selection guide

BY RISK:



« Think about other PPE to complete your protection »

BY APPLICATION:

	Mutex® E Light	ESSIAN® 2 White / Blue	MUTEX® Light +	MUTEX® Light BS	MUTEX® 2	DELTASAFE®	ESSIAN® FR	Spacel® C4/P	SPACEL® 3000 EBJ	SPACEL® 3000 RA EBJ	SPACEL® 4000 RA EBJ	SPACEL® C Medium	SPACEL® COMFORT Heavy	SPACEL® COMFORT FR	SPACEL® 3000 APRON	Ne-Hon™ 6
Construction																x
Transportation																x
Disease protection (e.g. Ebola)			x	x	x			x	x	x	x	x	x		x	
Asbestos inspection	x	x	x	x	x											
Asbestos removal								x		x	x	x	x			
Pharmaceutical industry	x	x	x	x	x			x				x	x			
Painting			x	x	x			x								
Pesticides								x								
Chemical handling										x	x	x	x			
Tank cleaning / chemical decontamination										x	x	x	x			
Light industrial cleaning & maintenance	x	x	x	x	x											
Food industry cleaning									x	x	x	x	x			
Activities generating sparks						x	x							x		

x mostly adapted / x suitable

Single Use Protective Clothing

Size Guide

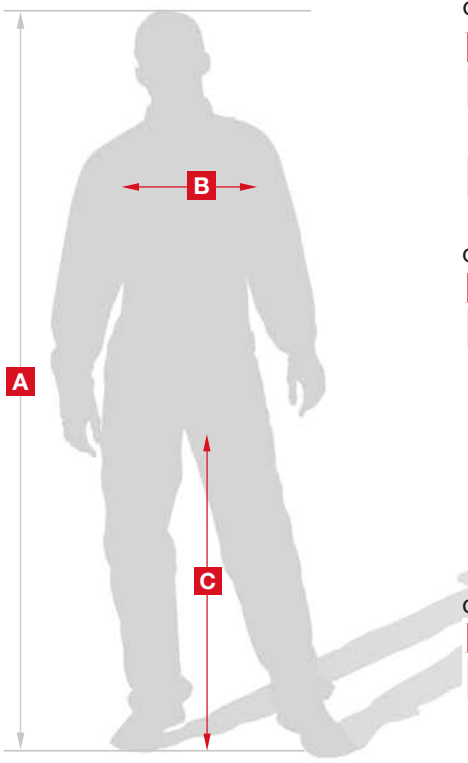
TAKING MEASUREMENTS: measurements must be taken directly on the body, and not too tight. When measurements are between two sizes, choose the smaller one for a tighter fit and the larger one if you prefer a looser fit.

CHOOSE YOUR SIZE

A HEIGHT: measure from the top of the head to the floor, barefoot with heels together.

B CHEST SIZE: measured at the largest point.

C INSIDE LEG: measure from the crotch down to the floor in a straight vertical line.



Corresponding sizes for the SPACEL® 2000

Order sizes	2	3	4	5	6
A Height (in cm)	152-164	164-176	176-188	188-200	200-212
B Chest size (in cm)	76-140	76-140	76-140	76-140	76-140
C Inside leg (in cm)	80	85	90	97	97

Corresponding sizes for the SPACEL® 3000 and 4000

Order sizes	S	M	L	XL	XXL	XXXL
A Height (in cm)	164-172	170-178	176-184	182-190	188-196	> 194

Corresponding sizes for all the other coveralls

Order sizes	S	M	L	XL	XXL	XXXL
A Height (in cm)	164-170	170-178	178-182	182-188	188-194	194-200
B Chest size (in cm)	84-92	92-100	100-108	108-116	116-124	124-132

Single Use Protective Clothing

Coveralls

A complete range of outfits and accessories to guarantee total protection for the body, to provide you with a comprehensive solution.

Category 3 - Serious or fatal hazards.

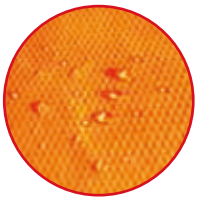
EN 20471 Class 3 — Type 6

Ne-Hon™ 6

New

- **Composition:** 100% Polyester, Fluorescent orange + reflective strips Water resistant treatment
- **Weight:** 90g/m²

The 1st certified High Visibility single use coverall of the market



Fully water-resistant coverall

Elasticated waist at the back
Perfect fit

Reinforced knees
Greater durability

FEATURES & BENEFITS

Sizes: S to XXXL

Ergonomics & comfort

- **Raglan sleeves** Superb freedom of movement
- **Double zip** Ease of use
- **Thumb loops** Prevents sleeves from riding up
- **Crotch gusset for comfort** Superb freedom of movement

Applications

- Transportation Industries (Construction, Utilities, Roads & Highways, Railways, Airports)
- Construction
- Oil & Gas
- Any dirt or wet activities where high-visibility protection is needed

Ref.	Description	Packaging
45 094 46	Ne-Hon™ 6	individually packed

Category 3 - Serious or fatal hazards.

Type 5 & 6 — EN 1149-5 — EN 1073-2*

Mutex® E Light

- **Composition:** Non-woven polypropylene 3 layers (SMS) - white.
- **Weight:** 56g/m²

3-piece hood

Elasticated wrists

Special crotch design

FEATURES & BENEFITS

Sizes: S to XXXL

Ergonomics & comfort

- Lightweight for even greater comfort.
- **Excellent breathability** - as comfortable as a T-shirt.
- Elasticated wrists and ankles.
- **3-piece elasticated hood:** for a better fit.
- **Tear resistant** crotch design.
- **Dual slider zip.**
- Silicone and latex free.

Applications

- Construction / Building and Public Works.
- Maintenance work.
- DIY.
- Landscaping.
- Chemical/petrochemical

Ref.	Description	Packaging
45 001 01	Mutex® E Light	50 units per carton, individually packed

* Does not protect against radiation.

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 5 & 6 | EN 1149-5 | EN 1073-2*

Essian® 2

- **Composition:** Non-woven polypropylene 4 layers (SMMS) – white or blue
- **Weight:** 55g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Bounded seams** to reinforce resistance and prevent solid particles & liquid from penetration
- Double flap and double zipper for optimum protection.
- Adhesive outer flap.
- Tear resistant crotch design.

Ergonomics & Comfort
- **Soft and Lightweight** raw material for greater comfort.
- Elasticated waist and ankles.
- 3-piece hood for a better fit.

Applications
- Chemical/Petrochemical
- Industrial maintenance / cleaning
- Asbestos removal
- Waste disposal
- Painting
- Pharmaceutical industry
- Police
- Emergency/Humanitarian services
- Construction

Bounded seams

Ref.	Description	Packaging
45 002 00	Essian® White	25 units per carton, individually packed
45 002 10	Essian® Blue	25 units per carton, individually packed

* Does not protect against radiation.

Category 3 - Serious or fatal hazards.

EN 1149-5 | EN 1073-2* | EN 14126 | Type 5B & 6B

Mutex® Light +

- **Composition:** White non-woven polypropylene laminated with a microporous film.
- **Weight:** 65g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Tear resistant** crotch design.
- **Certified** against biological agents.
- **Good resistance** to tearing and liquid penetration.

Ergonomics & comfort
- **Lightweight** for even greater comfort.
- Elasticated wrists and ankles.
- **3-piece elasticated hood:** for a better fit.
- **Dual slider zip.**
- Silicone and latex free.

Applications
- Chemical/petrochemical industry.
- Industrial maintenance.
- Construction / Building and Public Works.
- Asbestos removal.
- DIY.
- Waste disposal.
- Landscaping.

Dual slider zip

Special crotch design

Ref.	Description	Packaging
45 005 01	Mutex® Light +	25 units per carton, individually packed

* Does not protect against radiation.

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 5 & 6 | EN 1149-5

Mutex® Light BS* New

- **Composition:** Non-woven polypropylene laminated with polyethylene breathable film suit.
- **Weight:** 65g/m²

Single use coverall, all-in-one solution for use with or without fall protection harness

FEATURES & BENEFITS

Sizes S to 5XL

An innovative back sleeve
- Unique design with Velcro® fastening: Possibility to choose to wear the sleeve or not
- Open back sleeve that needs to be fixed with adhesive tape

Applications
- Painting activities
- Food silos cleaning and maintenance
- Maintenance at height

Ergonomics & comfort
- **Raglan sleeves** Superb freedom of movement
- **Double zip** Ease of use
- **Thumb loops** Prevents sleeves from riding up
- **Crotch gusset for comfort** Superb freedom of movement

Ref.	Description	Packaging
45 005 05	Mutex® Light BS	25 units per carton, individually packed

*Back Sleeve

Open back sleeve

Velcro® Fastening

Category 3 - Serious or fatal hazards.

Type 5 B & 6 B | EN 1149-5 | EN 14126 | EN 1073-2*

Mutex® 2

- **Composition:** White non-woven polypropylene laminated with a microporous film.
- **Weight:** 69g/m²

FEATURES & BENEFITS

Sizes S to XXXL

Enhanced protection
- **No shoulder seams.**
- **Double flap - inside and outside.**
- **Ultra wide seams** for better resistance against stress.
- **Very good resistance** to tearing and liquid penetration.

Applications
- Chemical/petrochemical industry
- Pharmaceutical/Laboratories
- Electronics
- Automotive
- Industrial maintenance
- Industrial painting
- Cleaning of contaminated environments
- Emergency services
- Asbestos

Ergonomics & comfort
- Wide fit under the arms for greater ease of **movement.**
- Elasticated wrists and ankles.
- **Tear resistant** crotch design.
- **Dual slider zip.**
- Silicone and latex free.

Ref.	Description	Packaging
41 800 02	Mutex® 2	25 units per carton, individually packed

Ultra wide seams

Zip with dual slider

Special crotch design

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 5 & 6 | EN 1149-5 | EN 1073-2* | NFP 92507 | EN ISO 141 16:2008**

Deltasafe®

- **Coverall:** Non-woven polypropylene 4 layers (SMMS) - white.
- **Weight:** 60g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection

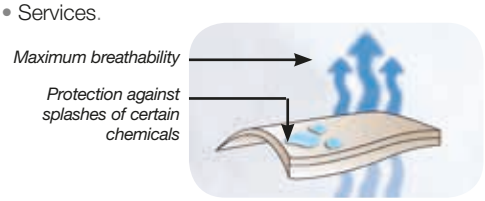
- **Certified under NFP 92-507:** flame retardant material, limits the propagation of flames.
- **Antistatic**
- **Double flap inside and outside.**
- **Very good abrasion,** tear and perforation resistance.

Ergonomics

- **Excellent breathability** - as comfortable as a T-shirt.
- **Dual slider.**
- **Dual slider zip.**

Applications

- Chemical/petrochemical industry.
- Refineries.
- Nuclear industry.
- Repair and industrial maintenance.
- Utilities.
- Services.



Flame-retardant material

Zip with dual slider

Ref.	Description	Packaging
45 714 50	Deltasafe®	25 units per carton, individually packed

* Does not protect against radiation.

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames

Category 3 - Serious or fatal hazards.

Type 5 & 6 | EN 1149-5 | EN 1073-2* | EN 533 / EN 14116**

Essian® FR

- **Composition:** Non-woven blue viscose.
- **Weight:** 90g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection

- **EN 533 and EN 14116 certified**: flame retardant material, reduces the risk of fire.
- **Double flap inside** and outside.
- **Ultra wide seams for better resistance against stress.**
- **Tear resistant** crotch design.

Ergonomics

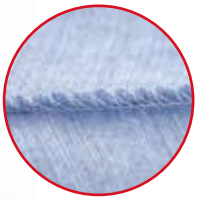
- Soft and lightweight raw material for greater comfort.
- **3-piece hood:** for a better fit.
- **Dual slider zip.**
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial maintenance
- Transport.

Dual slider zipper

3-piece hood



Ultra wide seams

Ref.	Description	Packaging
45 003 00	Essian® FR	25 units per carton, individually packed

* Does not protect against radiation.

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames.

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 4B, 5 & 6 | EN 1149-5 | EN 1073-2* | EN 14126

Spacel® C4 / Spacel® C4P

- **Coverall:** Polypropylene laminated with microporous film.
- **Weight:** 65g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Watertight seams** to improve resistance to liquids.
- **Adhesive flap.**
- **Tear resistant** crotch design.
- **Very good abrasion,** tear and perforation resistance.
- **Thumb hole** for a better fit.
- **Dual slider zip.**

Ergonomics
- **Lightweight for even greater comfort**.
- Elasticated waist and ankles.
- **3-piece hood** for a better fit.
- Silicone and latex free.

Applications
- Chemical/petrochemical.
- Industrial maintenance/cleaning.
- Asbestos removal.
- Waste disposal.
- Painting.
- Pharmaceutical industry.
- Police.
- Emergency/humanitarian services.
- Construction.
- Phytosanitary.

Ref.	Description	Packaging
45 006 01	Spacel® C4	25 units per carton, individually packed
45 006 11	Spacel® C4P	25 units per carton, individually packed

* Does not protect against radiation.

Category 3 - Serious or fatal hazards.

Type 5 B & 6 | EN 14126

Spacel® 3000 EBJ

- **Composition:** Three-layer yellow polyethylene film
- **Thickness:** 100µm

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Sealed zipper**
- **Sealed seams** - excellent chemical resistance
- **Smooth surface** - excellent evacuation of liquids.
- **High visibility** color.

Resistance
- Very good abrasion, **tear and perforation resistance**
- Material elongation **up to 400%**

Applications
- Industrial cleaning.
- Health.
- Industrial maintenance
- Chemical.
- Pharmaceutical industry/Laboratories.
- Emergency services.
- Work in polluted areas

Ref.	Description	Packaging
45 030 02	SPACEL® 3000 EBJ	25 units per carton, individually packed

OPTION

1 & 2	45 030 03 Type 6	SPACEL® 3000 AP/RA/EBJ	25 units per carton, individually packed
1	45 030 04 Type 6 B	SPACEL® 3000 AP*/EBJ	25 units per carton, individually packed

* AP: Dorsal ventilation

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 3 B, 4, 5 & 6

EN 14126

Spacel® 3000 RA/EBJ*

- **Composition:** Three-layer polyethylene film - yellow.
- **Thickness:** 100µm**

Sizes S to XXXL

FEATURES & BENEFITS

Optimal protection

- **Sealed zipper covered with a double adhesive flap.**
- **Sealed seams.**
- **Very good abrasion,** tear and perforation resistance.
- **Watertight due to "Spaseal" welding,** exclusive to Honeywell Industrial Safety.
- **Excellent visibility.**

Ergonomics

- New ergonomics.
- Material elongation up to 400%.
- Elasticated hood, waist, wrists and ankles.

Applications

- Chemical/petrochemical industry.
- Cleaning and industrial maintenance.
- Decontamination.
- Transport of hazardous substances.
- Work in polluted areas.
- Health.
- Emergency services.

Ref.	Description	Packaging
45 030 00	SPACEL® 3000 RA/EBJ	25 units per carton, individually packed
OPTION		
45 030 01	SPACEL® 3000 RA/GC/PS***	10 units per carton, individually packed

* RA/EBJ: Adhesive flap / Elasticated arms and legs.
**1 µm equals 1/1,000,000m = 1 x10-6m = 1 micron.
*** RA/GC/PS: Adhesive flap / Glued-on gloves / Built-in overshoes

Adhesive flap

OPTION

Built-in overshoes

OPTION

Glued-on gloves

Category 3 - Serious or fatal hazards.

Type 3, 4, 5 & 6 B

EN 14126

Spacel® 4000 RA/EBJ**

- **Coverall:** Three-layer polyethylene film - green.
- **Thickness:** 150µm*

Sizes S to XXXL

FEATURES & BENEFITS

Optimal protection

- **Sealed zipper covered with a double adhesive flap.**
- **Sealed seams.**
- **Very good abrasion,** tear and perforation resistance.
- **Watertight due to "Spaseal" welding,** exclusive to Honeywell Industrial Safety.
- **Excellent visibility.**
- **Material elongation up to 400%**

Ergonomics

- Elasticated hood, waist, wrists and ankles.

Applications

- Chemical/petrochemical industry.
- Cleaning and industrial maintenance.
- Decontamination.
- Transport of hazardous substances.
- Cleaning and industrial maintenance.
- Work in polluted areas
- Health.
- Emergency services.

Ref.	Description	Packaging
45 040 00	SPACEL® 4000 RA/EBJ**	25 units per carton, individually packed
OPTION		
45 040 01	SPACEL® 4000 RA/GC/PS***	10 units per carton, individually packed

* 1 µm equals 1/1,000,000m = 1 x10-6m = 1 micron.
** RA/EBJ: Adhesive flap / Elasticated arms and legs.
*** RA/GC/PS: Adhesive flap / Glued-on gloves / Welded soles.

Built-in overshoes

OPTION

Glued-on gloves

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 3, 4, 5 & 6 | EN 1149-5 | EN 1073-2* | EN 14126

Spacel® C Medium

- **Composition:** Non-woven polypropylene laminated with polyethylene film - orange.
- **Weight:** 80g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Stitched and taped seams** for resistance equal to that of the material.
- **Double flap and double zipper** for optimum protection.
- **Knee pads.**
- **Adhesive outer flap.**
- **Tear resistant** crotch design.
- **Very good resistance** to tearing and liquid penetration.
- **Excellent visibility:** brightly colored.

Ergonomics & comfort
- Lightweight.
- Elasticated wrists and ankles.
- **3-piece elasticated hood:** for a better fit.
- Dual slider zip**.**
- Silicone and latex free.

Applications
- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.

Ref.	Description	Packaging
45 060 01	SPACEL® C Medium	25 units per carton, individually packed

* Does not protect against radiation.

Category 3 - Serious or fatal hazards.

Type 3, 4, 5 & 6 B | EN 1149-5 | EN 1073-2* | EN 14126

Spacel® Comfort Heavy

- **Composition:** Non-woven polypropylene laminated with a complex polyethylene-EVOH film - gray.
- **Weight:** 155g/m²

Sizes S to XXXL

FEATURES & BENEFITS

Enhanced protection
- **Stitched and taped seams** for resistance equal to that of the material.
- **Double flap and double zipper** for optimum protection.
- **Knee pads.**
- **Adhesive outer flap.**
- **Tear resistant** crotch design.
- **Good tear** resistance.
- **Excellent chemical** resistance.

Ergonomics & comfort
- Elasticated wrists and ankles.
- **3-piece elasticated hood:** for a better fit.
- **Dual slider** zip.
- Silicone and latex free.

Applications
- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.

Ref.	Description	Packaging
45 070 00	SPACEL® Comfort Heavy	10 units per carton, individually packed

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 3 & 4 | EN 1149-5 | EN 14116**

Spacel® Comfort FR

- **Composition:** Non-woven coated viscose, gray.
- **Weight:** 138g/m²

FEATURES & BENEFITS

Sizes S to XXXL

Enhanced protection

- **Stitched and taped seams** for resistance equal to that of the material.
- **Double flap and double zipper** for optimum protection.
- **Adhesive flap.**
- **Tear resistant** crotch design.
- **Good resistance to** tearing and liquid penetration.

Ergonomics & comfort

- Lightweight.
- Elasticated wrists and ankles.
- **3-piece elasticated hood:** for a better fit.
- **Dual slider** zip.
- Silicone and latex free.

Applications

- Chemical/petrochemical industry.
- Industrial cleaning
- Decontamination.
- Industrial maintenance.
- Civil engineering.
- Pharmaceutical industry.

Ref.	Description	Packaging
45 080 00	SPACEL® Comfort FR	10 units per carton, individually packed

** Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames.

Category 1 - Minor hazards.

Jumpsuit with hood

- **Coverall:** Non-woven polypropylene.
- **Weight:** 40g/m²

FEATURES & BENEFITS

Sizes 3 to 5

- Excellent breathability.

Applications

- Hygiene.
- Cleaning.
- Food industry.
- Catering.
- Pharmaceutical industry/Laboratories.
- Factory visits.

Ref.	Description	Colors	Packaging
41 801 43	Jumpsuit with hood	White	25 units per carton, in bags of 5
45 714 35	Jumpsuit with hood	Blue	25 units per carton, in bags of 5

Single Use Protective Clothing

Category 3 - Serious or fatal hazards.

Type 3 (PB*) EN 14126

Spacel® 3000 APRON

- **Composition:** Three-layer yellow polyethylene film
- **Thickness:** 100µm**

FEATURES & BENEFITS

Sizes M to XXXL

Ergonomics
- Long-sleeved apron
- Elasticated wrists
- No seams
- 2 straps for a better adjustment

Ref.	Description	Packaging
45 030 05	SPACEL® 3000 apron	50 units per carton, individually packed

* Partial body

Category 1 - Minor hazards.

Rainlight

- **Composition:** Three-layer yellow polyethylene film
- **Thickness:** 100µm

FEATURES & BENEFITS

Sizes M to XL

Ergonomics
- Hooded tunic, elasticated wrists.
- Pants: elasticated waist and ankles.
- 25 cm zip at the collar to make it easier to slip on and off.

Ref.	Description	Packaging
45 750 45	Set of Rainlight rain attire	50 units per carton, individually packed

Category 1 - Minor hazards.

Spacel® 2000 EBJ

- **Composition:** Blue polyethylene film.
- **Thickness:** 50µm

FEATURES & BENEFITS

Sizes 2 to 6

Enhanced protection
- **Smooth surface** - excellent evacuation of liquids.

Ergonomics
- Lightweight material 50 µm.

Applications
- Industrial cleaning
- Health.
- Industrial maintenance.
- Pharmaceutical industry/Laboratories.
- Work in poor weather conditions.

Ref.	Description	Packaging
41 801 30	SPACEL® 2000 EBJ	50 units per carton, individually packed
OPTION		
41 801 31	SPACEL® 2000 AP/EBJ	50 units per carton, individually packed

OPTION

Dorsal ventilation

Uses - Equipment designed to provide protection in work environments from low risk hazards where the effects are easily reversed: low toxicity cleaning products, diluted detergent solutions, grease, etc.

Mutex® Light overboots

- **Composition:** White non-woven polypropylene laminated with a microporous film.
- **Weight:** 65g/m² - antistatic.

FEATURES & BENEFITS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic
- Non-slip.
- Lightweight

Design

- Elasticated calves.
- 4 adjustable laces for a better fit.

Ref.	Height	Length	Width of sole	Packaging
45 500 00	57cm	32cm	13cm	100 pairs per carton

Spacel® C Medium overboots

- **Composition:** Orange non-woven polypropylene laminated with a polyethylene film.
- **Weight:** 80g/m² - antistatic.

FEATURES & BENEFITS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic
- Non-slip.
- Liquid tight.
- Lightweight
- Excellent resistance.

Design

- Elasticated calves.
- 4 adjustable laces for a better fit.

Ref.	Height	Length	Width of sole	Packaging
45 600 01	57cm	32cm	13cm	Case of 25 pairs

Spacel® Comfort Heavy overboots

- **Composition:** Gray non-woven polypropylene laminated with a complex polyethylene-EVOH film.
- **Weight:** 155g/m² - antistatic.

FEATURES & BENEFITS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic.
- Non-slip.
- Liquid tight.
- Very high resistance.

Design

- Elasticated calves.
- 4 adjustable laces for a better fit.

Ref.	Height	Length	Width of sole	Packaging
45 700 01	57cm	32cm	13cm	Case of 10 pairs

PE 70 µm textured overboots

- **Composition:** Transparent textured polyethylene film.
- **Thickness:** 70µm

FEATURES & BENEFITS

- Liquid tight.
- Non-slip.
- Low particulate release.

Design

- Elasticated calves.

Ref.	Height	Length	Width of sole	Packaging
45 799 11	57cm	40cm	13cm	250 pairs in cases of 25 pairs

Mutex® Light overshoes

- **Composition:** White non-woven polypropylene laminated with a polyethylene microporous film.
- **Weight:** 65g/m² - antistatic.

FEATURES & BENEFITS

- Non-slip sole - antistatic.
- Suitable for safety shoes up to size 45.
- Antistatic.
- Non-slip.
- Lightweight.

Design

- Elasticated ankles.

Ref.	Height	Length	Width of sole	Packaging
45 510 00	15cm	32cm	13cm	100 pairs per carton

PE 130 µm textured overshoes

- **Composition:** White textured polyethylene film.
- **Thickness:** 130µm.

FEATURES & BENEFITS

- Very high resistance.
- Liquid tight.
- Non-slip.

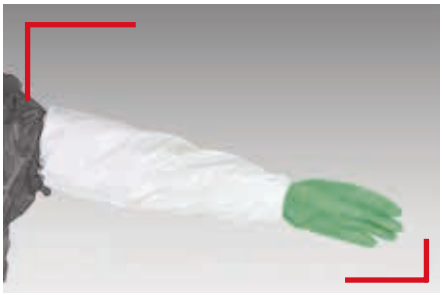
Design

- Elasticated ankles.

Ref.	Height	Length	Width of sole	Packaging
45 598 11	19.5cm	12cm	13cm	100 pairs per carton

Mutex® Light cuffs

- **Composition:** White non-woven polypropylene laminated with a microporous polyethylene film.
- **Weight:** 65g/m² - antistatic.



FEATURES & BENEFITS

- Antistatic
- Silicone and latex free

Ref.	Width	Length	Packaging
45 520 00	-	50cm	100 pairs per carton

Spacel® cuffs

- **Composition:** White polyethylene film.
- **Thickness:** 130µm.

FEATURES & BENEFITS

- Enhanced protection.
- Liquid tight.

Ref.	Width	Length	Packaging
45 700 01	20cm	45cm	100 pairs per carton

Asbestos bag

FEATURES & BENEFITS

- To assemble and discard clothing and accessories that have been in contact with asbestos.
- Zip and adhesive flap
- 80 µ

Ref.
45 981 02 * / 45 981 04 ** / 45 981 05 **

* : 40x45 cm / ** : 40x60 cm

Ventilated Protective Clothing

Honeywell offers a complete system of personal protection solutions produced and certified in Europe, including hoods, professional clothing and air filtration systems.

The equipment guarantees optimum protection for the whole body, with enhanced comfort through optimized ventilation.

The quality and performance of the solutions supplied by Honeywell make us a preferred partner when it comes to protecting people in high-risk areas, nuclear sites, the pharmaceutical and chemical industries, biological research laboratories and hospitals.

All of the products shown here can be modified to cater for our customers' specific risks and working conditions.

All the nuclear equipment is in Category 3 (protection against serious or fatal hazards)

Standard

	Description	Standard
	Protection against radioactive contamination in the form of particles	**EN 1073-1**
	Protection against liquid and gaseous chemicals, including liquid aerosols and solid particles **Type 1** gas-tight **Type 2** non gas-tight	**EN 943-1**
	Self-contained breathing apparatus with continuous compressed air flow	**NF EN 14594**

Our strength: protecting the whole body

1 – **Protection of the airways** against dust and contaminants: at least 25 times better than a standard PAPR
2 – **Protection of the body** against dust and contaminants

PROTECTION FACTOR*	50	2000	50,000
Protection of the BODY	Standard single use coverall	Liquid tight coverall	**Ventilated coverall**
Protection of the AIRWAYS	Mask & filter	PAPR & filter	**Ventilated hood**

*Protection factor: Number of 0.3µm particles outside to 1 particle inside the PPE

Key points about nuclear clothing

Wide field of view

1 For greater visibility

Adjustable supply valve

2 Easy adjustment of the air flow and maximum comfort

Removal tag

3 Reduces the risk of contamination and makes removal quicker

Outlet valve

4 Guaranteed lasting positive pressure

Air circulation network

5 Allows air to circulate inside the coverall for enhanced comfort

Non-slip soles

6 Improves grip on slippery surfaces

Ventilated Protective Clothing - Nuclear industry

Category 3 - Serious or fatal hazards.

MURUROA V4F1

- **Composition:** Pink PVC 20/100th flame retardant M1

EN 1073-1 | M1 NFP 92507* | EN943-1

FEATURES & BENEFITS

Applications:

Nuclear, chemical and pharmaceutical industries in areas where the air is polluted with solid particles and where protection of the airways is recommended.

*A version in coated fabric, certified under EN943-1, type 1c, is available on request.

Added safety:

- Protection factor **class 5 (> 50,000)**
- **Quick and safe removal** with the removal tag.
- **Visual warning** of reduced airflow an option.
- **Liquid tight double** seal on the back.
- **Flame retardant materials**

Ergonomics:

- **Simple and convenient air regulation:** air flow adjustable with a valve.
- 360° field of vision.
- Low noise level.
- Built-in ventilation.

Use:

- Single-Use

Packaging:

- 10 outfits/box.

Ref.
CC8481X1T

MAR 95-3

- **Composition:** Pink PVC 20/100th flame retardant M1

EN 1073-1 | M1 NFP 92507*

FEATURES & BENEFITS

Applications:

Nuclear industry, in areas where the air is polluted with solid particles and where protection of the whole body is recommended.

Where mechanical resistance is required, a version in 400g/m² coated fabric is available (MAR 95-3 PMI).

Added safety:

- Protection factor **class 3 (> 10,000)**
- **Mask with P3 or IPR filter** for excellent protection of the airways on removal.
- **Quick and safe** removal with removal tag.
- **Flame-retardant materials**

Ergonomics:

- **Simple and convenient regulation of the air:** air flow adjustable with a valve.
- 360° field of vision.
- Low noise level.
- Built-in ventilation.

Use:

- Single-Use.

Packaging:

- 10 outfits/box.

Ref.
CC8431XYT

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116:2008 Index 1/0/0 standard. Protection against the propagation of flames

Ventilated Protective Clothing - Nuclear industry

Category 3 - Serious or fatal hazards.

GRIDEL

- **Composition:** Pink PVC 20/100th flame retardant M1
  Crystal PVC 30/100th flame retardant M2

M1

NFP 92507* EN14594

FEATURES & BENEFITS

Applications:
Nuclear, chemical and pharmaceutical industries in areas where the air is polluted with solid particles and where protection of the airways is recommended.

Added safety:
- Easy and safe implementation.
- Protection factor **class 5 (> 50,000).**
- Low pressure warning.
- **Flame-retardant materials**

Ergonomics:
- **Comfortable:** good ventilation and low noise level.
- 360° field of vision.
- Air flow adjustable with a valve.

Use:
- Single-Use.

Packaging:
- 20 hoods/box.

Ref.
CC8527XY9

* Materials in compliance with the EN ISO 14116:2008 Index 1/0/0 standard.
Index 1 materials must not be worn directly on the skin but over an Index 2 or 3 undergarment, in compliance with the EN ISO 14116: 2008 Index 1/0/0 standard. Protection against the propagation of flames.

BSL4

- **Composition:** Polyester fabric coated on both sides with 460g/m² PVC

EN 1073-1

FEATURES & BENEFITS

Applications:
Laboratories where there is a major risk of biological or particle contamination (e.g. P4 laboratories)

Added safety:
- Liquid tight seal
- Protection factor **class 5 (> 50,000)**
- HEPA filter incorporated into the internal ventilation system
- Excellent mechanical resistance

Ergonomics:
- **Front fastening** for dressing alone
- Built-in ventilation
- **Simple and convenient air regulation:** air flow adjustable with a valve.
- 360° field of vision
- **Welded boots** and gloves that can be easily changed

Use:
- Reusable

Packaging:
- 1 outfit/box – sold individually as coverall is made to measure

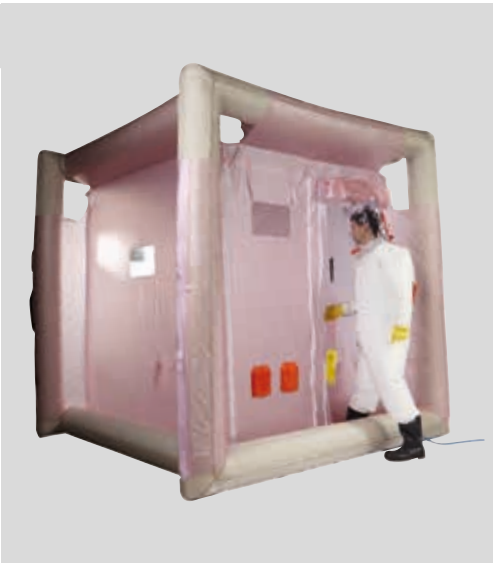
Ref.
CC84862XT

Ventilated Protective Clothing - Nuclear industry

Personalized Offer

PERSONALIZED SOLUTIONS TO MEET CUSTOMER REQUIREMENTS

- Fed with air by breathable air network or standalone version fed by a PAPR
- Different raw materials available for coating the equipment:
  flame retardant, antistatic, low halogen content, enhanced mechanical resistance, etc.
- Can operate at low or high flow rates
- Filter or outlet valve
- Coveralls open from the front or behind
- Welded gloves or glove rings
- Built-in feet or welded safety boots
- Single-use or reusable coveralls.
- High security equipment.



ACCESSORIES – COMPLETE SOLUTION

Honeywell offers a complete range for working in confined spaces:

- Decontamination chambers for working in confined spaces
- Breathable air production unit to feed ventilated equipment
- Waste bags to collect contaminated products
- Adhesive ribbons for any kind of joint/marking in a contaminated environment
- All kinds of surface protection film…

Non-ventilated Protective Clothing - Nuclear & Pharmaceutical industries

Category 3

EN1073-2 / Class 2 **Type 5**

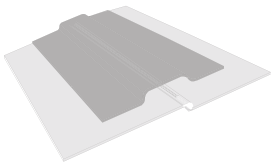
FROG COVERALL

Honeywell designed the FROG coverall with **innovative raw material** made **in biextensible textile** coated on one side with **breathable polyurethane** 170gsm providing a very **high level of protection.**

FEATURES & BENEFITS

Resistant:

- Seams are tight (sealed seams or high frequency welding) & adhesive flap on the textile zipper*

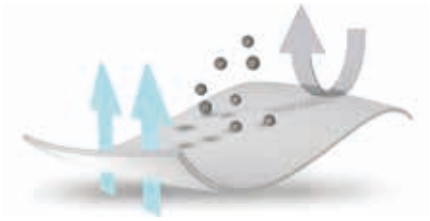


- Tight material
- Mechanical resistance of the material
- Boots, hood and gloves integrated
- Knee reinforcement
- Sizes: 1 to 5

* Option: available also on demand with tight double zipper (ref.: CC840061T)

Comfort:

- Breathability of the raw material: < 6,5 m². Pa/W evaluated according to EN 31092



- Horizontal back opening
- Elastics around the ankles and around the waist
- Weight < 0.8 kg

Applications:

- Nuclear industry
- Pharmaceutical industry
- Laboratories
- Biotechnology
- Vaccin or enzymes manufacturing

Ref.
CC840060T

STANDARDS

Category III: Personal Protective Equipment of complex design intended to protect against serious or fatal risks

EN 1073-2 – Class 2: Protection against radioactive contamination

Type 5: Protection against chemicals in the form of solid particles EN ISO 13982-1/A1: 2010

NB. : Honeywell provides from head to toe a complete line of personal protective equipment. The respiratory mask on the picture is part of our offer.

Ventilated Protective Clothing - Chemical & Pharmaceutical industries

HAPICHEM™

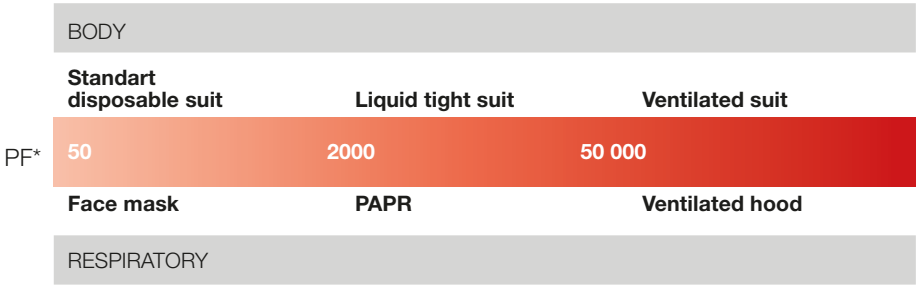
A VENTILATED SUIT DEDICATED TO PHARMACEUTICAL/CHEMICAL AREAS

Unique and precious, don't take any risks for your health. 100% safety, comfort and flexibility for professionals.

We have listened to you and your workers. You have clearly explained what your needs are and together we have developed Hapichem™. An innovative ventilated suit specifically designed to protect against the most potent APIs like HPAPI. Chemical resistant, antistatic, Hapichem™ is to be used in areas where the air is polluted with solid particles and whole body and respiratory protection is required.

PRODUCT USE:

- Chemical resistant, antistatic, ventilated suit designed in areas where the air is polluted with solid particles and whole body and respiratory protection is required,
- Suit specially designed for breathable air networks with low pressure,
- Usable in Atex area (dust zones 21& 22) for version with dissipative soles,
- Single-use clothing,
- Maximum respiratory protection from powders and contaminents: at least 25 times higher than a standard PAPR. Whole body protection from active ingredients cause irritation to the skin.



STANDARDS

EC Personal Protective Equipment Category: 3 - Personal Protective Equipment with a complex design to protect against serious or fatal risks

EN 14605: 2005 / A1: 2009: Protective clothing for use against liquid chemicals – Performance requirements for clothing with liquid-tight (Type 3) or spay-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

EN 1073-1: 1998 - Protective clothing against radioactive contamination: Requirements and test methods for ventilated protective clothing against particulated radioactive contamination. IL: Class 5. Indicate nominal protection factor of the suit (Class 5: Protection factor ≥ 50 000)

EN 1149-5: 2008: Antistatic: Electrostatic protection when correctly earthed**

ELECTROSTATIC-INERIS: volunteer certification intended to ensure the safety of certain equipment (hoses, filters…) and Personal Protective Equipment (PPE) with electrostatic risks because used in Atex area (EN13463-1:2009). **ATEX certified** (Group IIIA, IIIB, IIIC, dust zones 21 and 22)

European Directive: 89/686/EEC

** PF : Protection Factor number of particles on the outside for 1 particle on the inside*

*** The 'static electricity' phenomenon must always be considered as part of an entire system.*

Ventilated Protective Clothing - Chemical & Pharmaceutical industries

KEY FEATURES & BENEFITS

1 High optical quality visor for an excellent visibility and a high chemical protection

2 Double tight front horizontal zipper for a high protection combined with easy donning

3 User adjustable air flow valve for easy regulation and comfort

4 O-ring to adjust different types and sizes of gloves

5 Hanging loop to hang suit (See below)

8 One exhaust patented magnetic valve to operate in low pressure and ensure the highest protection for workers

9 Patented back internal airflow to be able to work sitting-down or on the knees without risk of overpressure

6 Orange safety strip on the side for a quick emergency procedure

7 Different sole options to adjust to work environments (See below, customized solutions)

CUSTOMIZED SOLUTIONS DEPENDING ON YOUR REQUIREMENTS

Hanging loop	
Hanging loop on the shoulders	Y=0
No hanging loop on the shoulders	Y=1

SOLES	Item
	CC9480XYZT
9a - Standard foot	Z=1
9b - Under-foot antiskid	Z=2
9c - Foot with dissipative sole	Z=3

The suit is available with 4 different nipples:	Item
	CC9480XYZT
Staubli RBE 06 (ISOC)	X=2
CEJN 342	X=4
Nitto Hi Cupla	X=6
Staubli AQR06	X=8

Sizes:

SIZE	Height (cm)	Waist (cm)	Item
1	164-170	84-88	CC9480XYZ1
2	170-176	88-92	CC9480XYZ2
3	176-182	92-96	CC9480XYZ3
4	182-188	96-100	CC9480XYZ4
5	188-200	96-100	CC9480XYZ5

Larger sizes, contact us directly.

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Technical Protective Workwear

References	Ranges	Descriptions	Colors	Sizes	EN ISO 14116	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 471	EN 13034 typ 6	EN 343	EN 469	IEC 61482-1-2	Chapters	Pages
1410003	AluPro	Gaiters	Aluminized	One size		A1-B1-C3-D3-E3-F1								Thermal Protection	272
1410009	UnderPro	Hood	Dark blue	One size				x						Multirisk Protection	271
1410033	AluPro	Apron	Aluminized	One size		A1-B1-C3-D3-E3-F1								Thermal Protection	273
1410113	AluPro	Coat	Aluminized	S to XXXL		A1-B1-C3-D3-E3-F1								Thermal Protection	273
1410155	AluPro	Hood	Aluminized	One size		A1-B1-C3-D3-E3-F1								Thermal Protection	273
1410F34	AluPro	Jacket	Aluminized	S to XXXL		A1-B1-C3-D3-E3-F1								Thermal Protection	272
1410F35	AluPro	Pants	Aluminized	S to XXXL		A1-B1-C3-D3-E3-F1								Thermal Protection	272
1412001	ElecPro1	Jacket	Blue	XS to XXXL		A1-B1-C1-E2-F1							2	Electrical Protection	278
1412002	ElecPro1	Pants	Blue	XS to XXXL		A1-B1-C1-E2-F1							2	Electrical Protection	278
1412007	ElecPro2	Jacket	Dark blue	XS to XXXL		A1-B1-C1-E1							2	Electrical Protection	279
1412008	ElecPro2	Pants	Dark blue	XS to XXXL		A1-B1-C1-E1				x			2	Electrical Protection	279
1412023	ChemPro	Smock	Grey	XS to XXXL				x		x				Chemical Protection	283
1412036	ChemPro	Coverall	Grey	XS to XXXL				x		x				Chemical Protection	283
1412050	ChemPro	Jacket	Grey	XS to XXXL				x		x				Chemical Protection	282
1412051	ChemPro	Pants	Grey	XS to XXXL				x		x				Chemical Protection	282
1412070	Multisafe	Jacket 250 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	268
1412089	Multisafe	Coverall 250 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	269
1412093	Multisafe	Pants 250 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	268
1412096	Multisafe	Pants 350 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	268
1412094	Multisafe	Jacket 350 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	268
1412098	Multisafe	Coverall 350 g	Dark blue	XS to XXXL		A1-B1-C1-E3-F1	1	x		x				Multirisk Protection	269
1415130	Multisafe Comfort	Jacket 165 g	Dark blue	XS to XXXL		A1-B1-C1		x		x				Multirisk Protection	270
1415131	Multisafe Comfort	Pants 165 g	Dark blue	XS to XXXL		A1-B1-C1		x		x				Multirisk Protection	270
1415134	Multisafe Comfort	Coverall 165 g	Dark blue	XS to XXXL		A1-B1-C1		x		x				Multirisk Protection	270
1415136	Multisafe Comfort	Coverall 220 g	Dark blue	XS to XXXL		A1-B1-C1-F1		x		x				Multirisk Protection	270
1415140	Multisafe Comfort	Jacket 220 g	Dark blue	XS to XXXL		A1-B1-C1-F1		x		x				Multirisk Protection	270
1415141	Multisafe Comfort	Pants 220 g	Dark blue	XS to XXXL		A1-B1-C1-F1		x		x				Multirisk Protection	270
1415848	Multisafe	Shirt	Blue	S to XXXL		A1-B1-C1		x						Multirisk Protection	269
1420031	FirePro	Over-pants	Dark blue	S to XXXL				x				x		Fire Protection	280
1430021	FirePro	Parka	Dark blue	S to XXXL				x				x		Fire Protection	280
1430024	FirePro	Parka	Orange	S to XXXL				x				x		Fire Protection	280
1430034	FirePro	Over-pants	Orange	S to XXXL	x			x				x		Fire Protection	280
1499001	Option	Retro-reflective strip at the shoulders	Grey	One size	x				x			x		Personalized options	266
1499002	Option	Retro-reflective strip at the shoulders	Yellow	One size	x				x			x		Personalized options	266
1499003	Option	Retro-reflective strip at the arms	Grey	One size	x				x			x		Personalized options	266
1499004	Option	Retro-reflective strip at the arms	Yellow	One size	x				x			x		Personalized options	266
1499005	Option	Retro-reflective strip at the chest	Grey	One size	x				x			x		Personalized options	266
1499006	Option	Retro-reflective strip at the chest	Yellow	One size	x				x			x		Personalized options	266
1499007	Option	Retro-reflective strip at the legs	Grey	One size	x				x			x		Personalized options	266
1499008	Option	Retro-reflective strip at the legs	Yellow	One size					x			x		Personalized options	266
1499009	Option	Heat-sealed logo on the chest	-	One size										Personalized options	266
1499010	Option	Embroidered logo on the chest	-	One size										Personalized options	266
1499011	Option	Heat-sealed logo on the back	-	One size										Personalized options	266
1499012	Option	Embroidered logo on the back	-	One size										Personalized options	266
4100480	FlamePro2	Apron 110 cm	Gray/blue	One size			2							Thermal Protection	277
4101180	FlamePro2	Apron 90 cm	Gray/blue	One size			2							Thermal Protection	277
4101813	FlamePro1	Hood	Green	One size		A1-B1-C1-E2	1							Thermal Protection	275
4104932	FlamePro2	Split leather jacket	Gray/blue	M to XXL			2							Thermal Protection	276
4104933	FlamePro2	Grain leather jacket	Gray/blue	M to XXL			2							Thermal Protection	276
4104934	FlamePro2	Pants	Gray/blue	M to XXL			2							Thermal Protection	276
4111808	FlamePro1	Coverall	Green	XS to XXXL		A1-B1-C1-E2	1							Thermal Protection	275
4111812	FlamePro1	Pants	Green	XS to XXXL		A1-B1-C1-E2	1							Thermal Protection	274
4111814	FlamePro1	Jacket	Green	XS to XXXL		A1-B1-C1-E2	1			x				Thermal Protection	274
4111830	Apipic	Coverall	Yellow	M to XL										Fire Protection	281
4302726	FlamePro2	Sleeves	Grey	One size			2							Thermal Protection	277
4305221	FlamePro2	Gaiters	Grey	One size			2							Thermal Protection	277

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Heavy chemical protection clothing

References	Ranges	Descriptions	Colors	Sizes	EN 943-1	EN 1073-1	NFP 92507	type 3	type 4	type 5	EN1149-5		Chapters	Pages
A164380	Splash	Coverall with hood	Green	S to XXL									Chemical Protection	285
A164223	Guardian	Guardian Plus Coverall	Yellow/gray	S to XXL				x	x				Chemical Protection	284
A164221	Guardian	Guardian colar Coverall	Yellow/gray	S to XXL					x				Chemical Protection	285
A164225	Guardian	Guardian Super Coverall	Yellow/gray	S to XXL				x	x				Chemical Protection	285
A164691	Guardian	Guardian Apron 70x90	Yellow	One size				x					Chemical Protection	285
A164715	Guardian	Guardian Apron 70x120	Yellow	One size				x					Chemical Protection	285
A164021	Guardian	Guardian Cuff	Yellow/gray	One size				x					Chemical Protection	284
CC84862XT	BSL4	BSL4 Coverall	Crystal	One size		x							Nuclear Protection	309
CC8527XY9	Gridel	Gridel Coverall	Pink/crystal	One size			x						Nuclear Protection	309
CC8481X1T	Mururoa V4F1	Mururoa V4F1 Coverall	Pink	One size	x	x	x						Nuclear Protection	308
CC8431XYT	MAR95-3	MAR95-3 Coverall	Pink	One size		x	x						Nuclear Protection	308
CC8Y0X07T	Easychem	Easychem Coverall	Orange	One size	x								Chemical Protection	288
N71200x10	Northylon	Northylon C SWA Coverall	Green	S to XXXL									Chemical Protection	286
N71250x10	Northylon	Northylon H SWA Coverall	Green	S to XXXL					x				Chemical Protection	286
N71252x10	Northylon	Northylon H EWSA Coverall	Green	S to XXXL					x				Chemical Protection	286
N71254x10	Northylon	Northylon H EWA Coverall	Green	S to XXXL					x				Chemical Protection	286
N70462910	Northylon	Northylon Light N42 Apron	Green	One size					x				Chemical Protection	286
N70463910	Northylon	Northylon Light N48 Apron	Green	One size					x				Chemical Protection	286
N70453935	Northylon	Northylon Heavy A48 Apron	Brown	One size					x				Chemical Protection	286
N70453936	Northylon	Northylon Heavy A48 Apron	White	One size					x				Chemical Protection	286
N72750002	Northylon	Northylon FS2N Hood	Green	One size					x				Chemical Protection	287
N72750003	Northylon	Northylon FS3N Hood	Green	One size					x				Chemical Protection	287
N72750005	Northylon	Northylon FS5N Hood	Green	One size					x				Chemical Protection	287
N71501910	Northylon	Northylon Cuff	Green	One size					x				Chemical Protection	287
A140340	Patrol	Patrol Coverall	Yellow	M to XXL	x (Type 1b)				x				Chemical Protection	288
CC9480XYZT	Hapichem™	Ventilated Suit	White	1 to 5	X	X		X			X	X	Chemical et Pharmaceutical Protection	312
CC840060T	Frog	Coverall	White	1 to 5	X	X				X			Nuclear & Pharmaceutical protection	311

Fall protection

Working at height is defined as any working place where, if protection is not taken, a person could fall causing serious injuries or death.

Created in cooperation with Europoles GmbH & Co. KG

Fall protection

Miller® provides fall protection products: personal fall protection equipment, engineered fall arrest systems, collective fall prevention/barrier, solutions, professional services including, training, site surveys, product inspection and repairs.

For over 65 years, products labeled with the Miller brand have protected those working at height in a wide range of industries including: construction, oil and gas, telecommunications, wind energy, transportation, mining, general industry, utilities and more.

Harnesses p. 322

- Fall arrest harnesses p. 323
- Work positioning harnesses p. 328
- Suspension harnesses p. 335
- Work positioning belts p. 337
- Harness accessories p. 338
- Technical guide p. 340

Self retracting lifeline p. 343

- Self retracting lifeline cable p. 344
- Self retracting lifeline webbing - edge tested p. 346
- Self retracting lifeline webbing p. 347
- Technical guide p. 350

Lanyards p. 352

- Edge-tested shock-absorbing lanyards p. 353
- Edge-tested shock absorbing Manyard® p. 354
- Shock absorbing Manyard® p. 354
- Shock-absorbing lanyards p. 355
- Restraint lanyards p. 358
- Work positioning lanyards p. 360
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Miller®... Synonymous with Safety, Quality, Reliability and Innovation.

FALL PROTECTION

European legislation states that fall protection measures must be put in place by the employer of any person working at a height where a fall hazard exists. The regulation also requires that people involved in work at height are competent to do so or if in training, are supervised by a competent person. If it is not feasible to eliminate the hazard using a collective system then personal protective equipment (PPE) must be selected and used. It could be for restraint, work positioning, rescue or fall arrest purposes. This system consists of a full body harness, an intermediate attachment and an anchorage connector. The systems can only be used if a suitable anchorage point is located close to the work area.

Miller products are designed and tested by full-time, qualified engineers and technicians at a state-of-the-art, in-house testing facility, which not only verifies that specific standards are achieved but often tests beyond the standards to assure the ultimate in safety performance. In addition, all Miller products are third-party tested by independent sources to further certify compliance. Honeywell Industrial Safety has successfully earned and continues to retain ISO 9001 certification at its manufacturing facilities. Miller has undergone the most stringent requirements for design and development, production and service, proof of our unwavering and ongoing commitment to consistent quality products and services.

Miller products are developed in collaboration with workers to fit to their need to provide innovative solutions.

With our goal of being your comprehensive problem-solving provider, we are committed to meet your fall protection needs with innovative safety solutions mixing products and services such as training, hazards identification and tailor made products.

With sales offices and training centres throughout the world, Miller is supported at a local level by our highly trained field sales force and dedicated technical support and customer service resources assuring reliable solutions to the most complex and technical requests.

Fall Protection Standards

EN 12841/C	Rope Access Systems: Back-up devices
EN 341	Descenders
EN 353-1	Guided Type Fall Arresters Rigid Anchorage Line and Rails
EN 353-2	Guided Type Fall Arresters Flexible Anchorage Line
EN 354	Lanyards
EN 355	Shock Absorbers
EN 358	Work Positioning Systems
EN 360	Retractable Type Fall Arresters
EN 361	Full Body Harness
EN 362	Connectors
EN 795(b)	Anchorage Devices – Class B
EN 813	Sit Harness
EN 363	Fall Arrest Systems

HARNESS TYPE	European Standart	Work Restraint	Work Positioning	Fall Arrest	Work in Suspension	To Rescue
Work Positioning Belt	EN 358	ok	ok	-	-	-
Full Body Harness	EN 361	ok	-	ok	-	-
Full Body Harness	EN 361/ EN 358	ok	ok	ok	-	ok
Multifunction Full Body Harness	EN 358/ EN 813 EN 361	ok	ok	ok	ok	ok

WORKING AT HEIGHT CATEGORIES

Your working at height environment reflects the equipment that must be used. The categories summarised below have been defined by European Standards and are used as the base for work at height operations.

FALL ARREST

Equipment used to stop falling worker in the event of a fall from height.

Typical Fall Arrest System consists of:
- Anchor devices.
- Full body harness.
- Connecting devices.

RESCUE

Rescue & Evacuation of an injured high access worker is mandatory consideration for work at height operations.

Typical Rescue System consists of:
- Rescue & evacuation device.

WORK POSITIONING*

Equipment holding an operator in their place of work, allowing a hands free work environment.

Typical Work Positioning System consists of:
- Anchor devices.
- Full body harness with a positioning belt.
- Connecting devices (work-positioning lanyard).

WORK IN SUSPENSION*

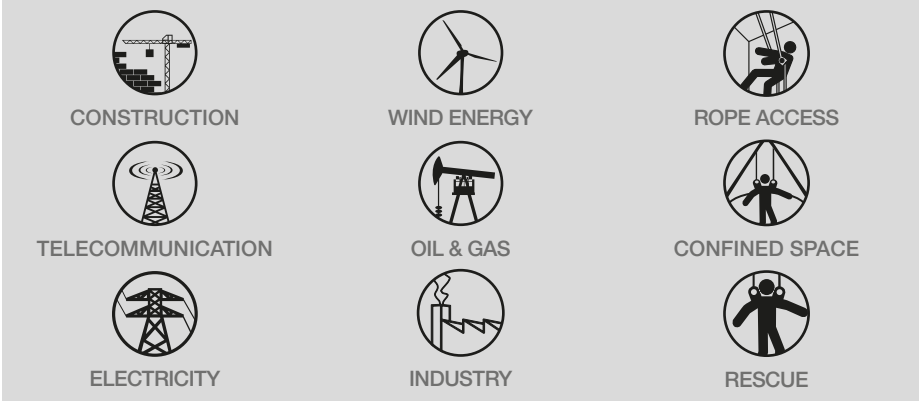
Designed to lower and support a worker, allowing a hands free work environment.

Typical Suspension System consists of:
- Anchor devices.
- Full body harness.
- 2 ropes: 1 equipped with a descender, 1 equipped with a rope grab.

WORK RESTRAINT

Equipment used to prevent the workers from approaching a position from which they can fall.

Typical Work Restraint System consists of:
- Anchor devices.
- Work restraint belt or full body harness.
- Connecting devices (restraint lanyard).

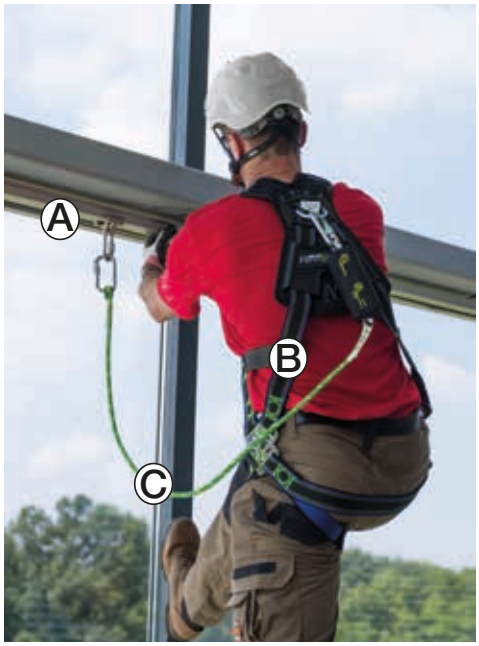


* The positioning and suspension systems are not designed for Fall Arrest. A back-up Fall Arrest system must be used.

Introduction to Fall protection basics

The ABC's

A simple way of remembering the core components of a fall arrest system is the "ABC" of Fall Arrest. Quite simply, without one part, the system does not work.



Ⓐ ANCHOR DEVICES

Definition: Used to join the connecting device (work restraint, fall arrester) to the anchorage, commonly referred to as the "tie-off point" (I-beam, scaffolding or other structural point).

Anchor devices may be one of the 2 types:

- Permanent anchor devices (e.g. horizontal cable lifeline, horizontal rail systems...).
- Temporary anchor devices (e.g. steel strops, scaffold hooks, webbing anchorage slings, beam grips and dead-weight anchor...).

Ⓑ FULL BODY HARNESS

Definition: Used to hold a worker during & after a fall.

- Full body harness must be worn for Fall Arrest situations.
- Work restraint belts cannot be used for Fall Arrest.

Ⓒ CONNECTING DEVICES

Definition: Used as intermediate attachment to connect the worker's harness to the anchor device (e.g. shock absorbing lanyard, self retracting lifeline, fall limiter, rope grab etc.).

Connecting devices may be one of the 2 types:

- Fall Restraint: a fall restraint system prevents workers from reaching a hazard.
- Fall Arrest: a fall arrest system allows workers to reach a hazard and then protects them if they should fall.

Life cycle of fall protection equipment

Please consult for detailed information the dedicated product user manual.

A. For our products made of mainly textiles (harnesses, lanyards, SRL with webbing[1])

The maximum life cycle is ten years from the date of production except in cases where environmental factors[2] and special conditions of use[3] for fall protection equipment apply. An annual inspection done by a competent person[4] (trained for PPE inspections) is mandatory.

B. For our products made up mainly of metal (cable SRL, karabiners)

We do not indicate a life cycle for our products made up mainly of metal. It is unlimited, under condition the product undergoes regular maintenance during the yearly inspection carried out by a competent person. In case of doubt or damage, the device has to be sent for expert inspection/repair at a local Honeywell Service Centre or the factory. For products not subject to maintenance (non workable), the life cycle is a maximum of ten years[2,3].

1. **Except for Miller Falcon 6m webbing and Scorpion Edge :** Replacement of the webbing kit is every 5 years from date of manufacture.
2. **Contact with chemical products,** poor storage conditions, exposure to strong sources of heat (> 50°C), to ultraviolet (UV) radiation, harsh abrasion, etc…
3. **Product deterioration,** activation due to a fall, mechanical fault, premature wearing, intensity of use. In all cases, our products must be inspected once a year.
4. **A person who has successfully completed an inspection course** and who currently holds a valid inspection certificate.

In all cases, our products must be checked once a year.

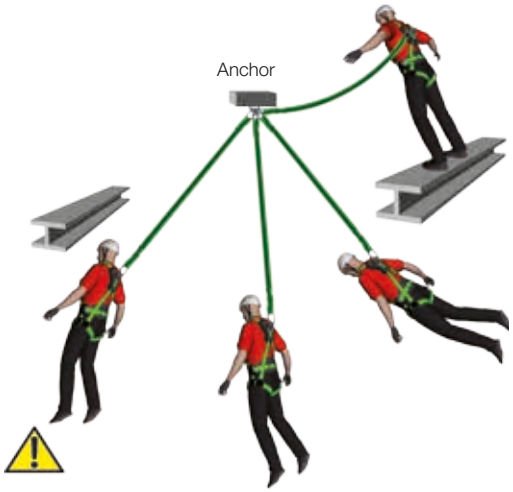
Understand your fall factors to reduce the risks!

Getting to grips with the work hazards!

There are three fall factors in fall arrest that relate to the position of the anchorage point. They are used to determine the potential fall distance of a worker and so ensure that there is no risk of contact with the lower level in the event of a fall. When possible, the worker should always use an anchorage point at shoulder level or above (Factor 1 or 0). A higher anchorage point will reduce the fall distance and therefore significantly reduce the risk of injury on the body due to the impact forces of a fall.

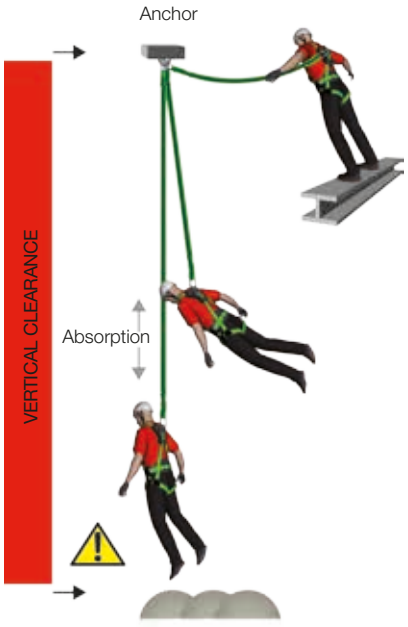
THE PENDULUM EFFECT

When the lifeline is not anchored vertically over the work place, the worker will pendulum in the event of a fall and may be injured by hitting the ground or an obstacle to the side. If it is not possible to use an anchorage point close to the work station, two anchorage points either side of the worker can be used to prevent any swing.



FALL CLEARANCE CALCULATIONS

This is the distance a person will fall when connected to a fall arrest attachment point. It is related to the Fall Factors (see Fall factor). Many situations can develop and it is ultimately the responsibility of the worker to ensure that there is a suitable fall clearance available. In order to calculate this, the worker must know the distances specified below, and it is also strongly recommended they attend a Miller Fall protection training course.



The calculation below gives the minimum vertical clearance required between the anchorage point of the lanyard and the lower level.

Length of lanyard
+ Fully activated energy absorber
+ Body height from feet to harness attachment
+ Additional safety clearance

Examples :

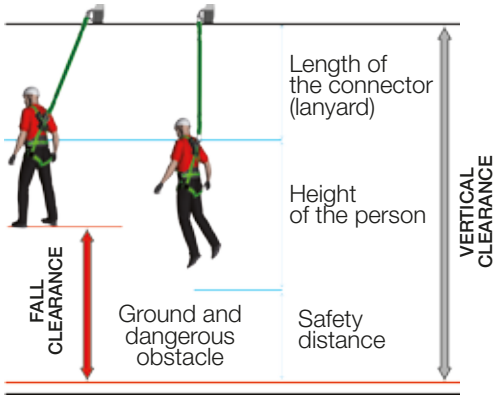
Calculations using the following length lanyards are as follows:

- 2m lanyard: 2m (lanyard length) + 1.75m (energy absorber) + 2m (body height) + 1m safety = 6.75m
- 1.5m lanyard: 1.5m (lanyard length) + 1.5m (energy absorber) + 2m (body height) + 1m safety = 6m

Understand your fall factors to reduce the risks!

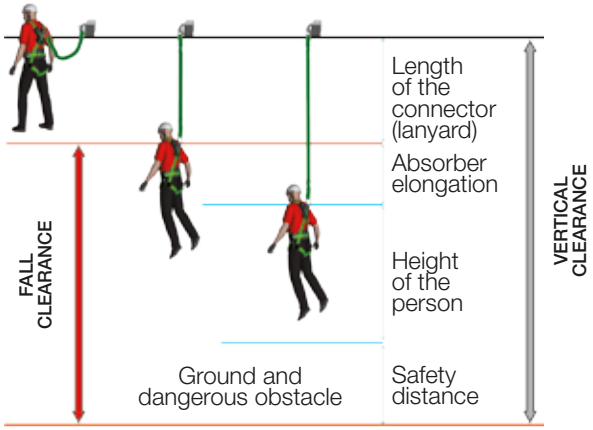
FALL FACTOR 0

Anchorage is overhead and the lanyard is taut between the anchorage point and the worker.
The fall clearance is reduced as shown.



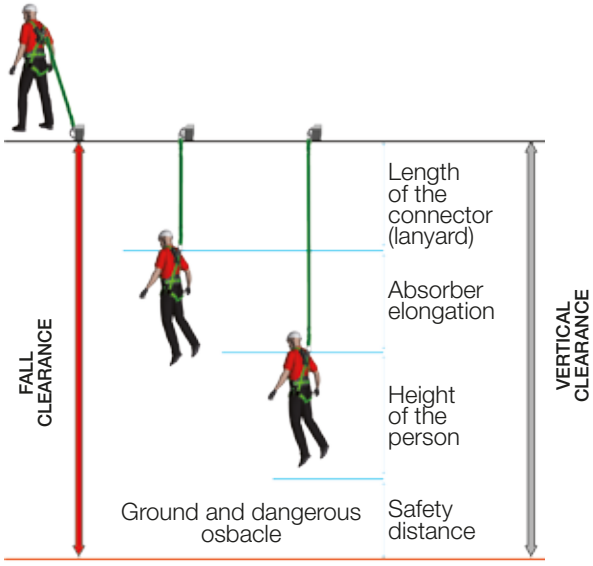
FALL FACTOR 1

Anchor point is level or above the harness attachment point allowing a fall equivalent to the length of the lanyard before the energy absorber deploys to arrest the fall.



FALL FACTOR 2

Anchor point is at or below the feet of the worker allowing a fall equivalent to twice the length of the lanyard before the energy absorber deploys to arrest the fall.



IF IN DOUBT: FALL LIMITERS REDUCE FALL CLEARANCE < 3M

A fall limiter or self-retracting lifeline will stop a fall in centimetres and is therefore the ideal solution for low-level work where a shock-absorbing lanyard is unable to stop the worker from hitting an obstacle below.

Harnesses

Miller harness features

ADJUSTMENT BUCKLES

MATING BUCKLE

To connect the mating buckle, push the centre bar buckle completely through the square link and allow it to fall into place. Pull web end to tighten.

QUICK-CONNECT BUCKLE

For belt, waist and leg straps interlock for quick easy donning and feature a dual-tab release mechanism to prevent accidental opening.

CAM BUCKLE

The locking tabs of the cam buckle trap the webbing to prevent unintentional slippage. Lift the locking tab for easy, one-hand adjustment/release. Promotes proper snug fit, will not slip or misadjust.

WEBBING

DUALTECH™ WEBBING

Donning made easy with two-sided, contrasting colour webbing and textures.

- Webbing engineered with shape retention memory for a more comfortable fit.
- Unique circular tack provides greater strength, and contrasting colours make inspection easier.

DURAFLEX® WEBBING

- Patented elastomer webbing specially formulated to stretch with the user's movements so there is no bunching or binding.

ATTACHMENT POINTS

How to determine an attachment point ?
1 point = dorsal attachment
2 point = dorsal and sternal attachment
3 point = dorsal, sternal and ventral attachment
+ work positioning = 2 side attachment points

2 SIDE ATTACHMENT POINTS

A work-positioning lanyard is attached to the side D-rings to enable the operator to work with his hands free. These are not suitable for fall arrest.

FRONT D-RINGS AND FRONT ATTACHMENT LOOPS

Used for a comfortable fall arrest attachment point. Used for a variety of confined space, rescue, climbing.

BELT, LEG & SEAT STRAP

A padded belt is recommended for work positioning. The greater support increases worker productivity. Padded leg straps for suspension work: it distributes the load across the buttocks and back. Seat strap for worker comfort during prolonged periods of work in suspension.

Fall arrest harnesses

Fall Protection is about protecting people who are working at height. Falls from height are the second most common cause of accidents in the work place and cost significant amounts every year to employers. The purpose of a fall arrest system is to safely stop a fall from height and to hold the worker until he can be recovered. A full body harness that conforms to EN 361 is the form of body wear used in fall arrest applications.

MILLER REVOLUTION™ COMFORT R2

Quick fitting harness with 8 unique innovations
2 point - Dorsal D-ring and front attachment loops

FEATURES & BENEFITS

Benefits: Conforms to users movements

- Rotating PivotLink connections at waist level.
- Full freedom of movement.
- Integrated accessories system.
- Custom identification labels.

Features: Turning point in design

- Elasticated DuraFlex® webbing*.
- ErgoArmor™ padded back shield.
- Quick fixing Cam buckles for easy fit.
- Quick connect buckles at chest & leg.
- Web finials to store spare webbing.
- Self-contained label pack.

Ref.	Description	Size
10 142 36	DuraFlex® stretch webbing	S/M
10 142 37	DuraFlex® stretch webbing	L/XL
10 142 38	DuraFlex® stretch webbing	XXL**

Conforms to EN 361

Ref.	Description	Size
10 142 39	DualTech webbing	S/M
10 142 40	DualTech webbing	L/XL
10 142 41	DualTech webbing	XXL**

*Available in Dualtech webbing
**Made on demand

MILLER H-DESIGN® HARNESS

New

A new feeling of safety at height - the H-Design harness is available with either DuraFlex stretch webbing or standard webbing.

EXCLUSIVE AND INNOVATIVE H-SHAPED HARNESS STRUCTURE

Stand up back-D-Ring
for an easy connection

Stretch webbing
for improved freedom of movement

Adjustable chest strap
for a perfect fit

Fall Indicator on front web loops
for easy inspection

Well positioned buckles
for an accurate adjustment

Fall indicators on the back plate
for easy inspection

Protected labels
for improved traceability

Patented sternal D-ring:
for chest strap adjustment and auto centring of the D-ring in case of a fall

Long front loops for easy connection

Large opening on both sides of the harness (no crosspiece)
to increase the freedom of movement

Horizontal leg straps
for better comfort at work

Water repellent webbing
for more longevity of the product

Certified at 140kg

MILLER H-DESIGN® HARNESS

MILLER H-DESIGN® HARNESS ACCESSORIES
SEE P 338-339

FEATURES & BENEFITS

Benefits:
- Freedom of movement.
- Greater comfort.
- Easy to put on and quick to connect.
- More safety: avoids the worker to tilt sideways.
- Easy inspection.
- Better traceability.
- Greater durability.

Features:
- Exclusive and innovative harness structure in 'H':
  - Ergonomically placed webbing.
  - Horizontal leg straps.
- Unique top-down front adjustment.
- Adjustable chest strap.
- Accessible back D-ring due to its bended position.
- Unique patented sternal D-ring with automatic centering in case of a fall.
- Highly visible stitches.
- Front and back fall indicators.
- 10 year inspection chart & user name label.
- Protected webbing: water repellent and stain free.

SIZE SELECTION GUIDE

Images are for guidance only.

Ref.	Name	Type of shoulder webbing	Nb of attachment points	Type of buckles	Type of front attachment	Size
10 328 55	MILLER H-DESIGN®	DuraFlex stretch	1	Mating	–	1
10 328 56						2
10 328 57						3
10 328 59				Automatic		1
10 328 60						2
10 328 61						3
10 328 63			2	Mating	2 webbing loops	1
10 328 64						2
10 328 65						3
10 328 71				Automatic		1
10 328 72						2
10 328 73						3
10 328 67				Mating	1 D-ring	1
10 328 68						2
10 328 69						3
10 328 75				Automatic		1
10 328 76						2
10 328 77						3

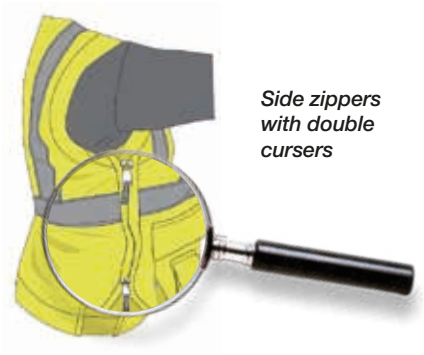
Ref.	Name	Type of shoulder webbing	Nb of attachment points	Type of buckles	Type of front attachment	Size
10 328 31	MILLER H-DESIGN®	Non stretch	1	Mating	-	1
10 328 32						2
10 328 33						3
10 328 35				Automatic		1
10 328 36						2
10 328 37						3
10 328 39			2	Mating	2 webbing loops	1
10 328 40						2
10 328 41						3
10 328 47				Automatic		1
10 328 48						2
10 328 49						3
10 328 43				Mating	1 D-ring	1
10 328 44						2
10 328 45						3
10 328 51				Automatic		1
10 328 52						2
10 328 53						3

Conforms to EN 361

MILLER H-DESIGN® HI-VIS VEST

New

Miller H-Design hi-vis vest is a comfortable lightweight high visibility vest specifically developed for use with the Miller H-Design harness, to be visible from a distance and in dark environments.



Side zippers with double cursers

FEATURES & BENEFITS

Benefits:

- More safety.
- Better traceability.
- Perfect fit.
- Easy adjustment.
- More flexibility.

Features:

- Workers can be seen from a distance and in dark environments due to high visibility textile (yellow or orange) and reflective tapes, both conforming to EN ISO 20471:2013 Class 2.
- The vest is designed with five pockets for safe transport of tools and accessories.
- Card holder for user name enables traceability.
- Side zippers with double cursers give a perfect fit to any body shape and the best adjustment to summer and winter clothing.
- Two front slits and one back slit for use with any attachment (D-rings/loops) optimises fitting to all Miller H-Design harnesses
- Vest with lining.
- One big inner zipper with double cursers enables complete opening of vest lining to insert and adjust the harness.
- Easily removable vest to replace if damaged or wash if dirty.

2 front slits and 1 back slit for attachmen

MILLER H-DESIGN HI-VIS VEST

Ref.	Size
10 328 95	1-2
10 328 96	2-3

Ref.	Size
10 328 97	1-2
10 328 98	2-3

Certified to the requirements of the EN ISO 20471: 2013 Class 2 and EN ISO 13688: 2013.

One big inner zipper

MILLER H-DESIGN HARNESS WITH HI-VIS VEST*

Ref.	Hi-vis vest colour	Type of shoulder webbing	Nb of attachment points	Type of buckles	Type of front attachment	Size
10 329 17		DuraFlex stretch	2	Automatic	2 webbing loops	1
10 329 18						2
10 329 19						3
10 329 20					D-ring	1
10 329 21						2
10 329 22						3
10 329 29					2 webbing loops	1
10 329 30						2
10 329 31						3
10 329 32					D-ring	1
10 329 33						2
10 329 34						3

**also available mounted on other Miller H-Design harnesses – contact your local Miller sales representative*

Fall arrest harnesses

MILLER H-DESIGN® QUICK-FIT VEST

New

Miller H-Design® quick-fit vest is a new lightweight vest specifically developed to allow Miller H-Design harnesses to be put on even easier and quicker.

FEATURES & BENEFITS

Benefits:
- More comfort.
- Easy to put on, to replace if damaged or to remove and wash if dirty.
- Better fit to all body shapes.

Features:
- Semi-rigid textile facilitates the putting on of the harness and prevents harness webbing from twisting.
- Breathable textile prevents perspiration.
- One-size-fits-all vest with quick-clip system.
- Stretch webbing on each side provides freedom of movement.

MILLER H-DESIGN QUICK-FIT VEST

Ref.
10 328 80

MILLER H-DESIGN HARNESS WITH QUICK-FIT VEST*

Ref.	Type of shoulder webbing	Nb of attachment Points	Type of buckles	Type of front attachment	Size
10 328 87	DuraFlex stretch	2	automatic	2 webbing loops	1
10 328 88					2
10 328 89					3
10 328 90				1 D-ring	1
10 328 91					2
10 328 92					3

also available mounted on other Miller H-Design harnesses – contact your local Miller sales representative

MILLER H-DESIGN® CONFINED SPACE HARNESS

New

FEATURES & BENEFITS

Benefits:
- Quick assess for more safety.
- Comfort and freedom of movement.
- Better flexibility.

Features:
- Smooth sliding of self-rescuer mask along the belt (from back to front and reverse).
- Soft and flexible padded belt adjustable in height.
- Compatible with major self-rescuer masks on the market.
- Belt available in 2 sizes fitting to any bodyshape.

Miller H-Design® 'confined space' harnesses including belt, DuraFlex webbing, automatic buckles and 2 sternal loops

Ref.	Harness size	Belt size
10 338 60	1	S/M
10 338 61	2	L/XL
10 338 62	3	L/XL

Conforms to EN 361: 2002 – 140kg certified

Miller H-Design® 'confined space' belt

Ref.	Belt size
10 335 61	S/M
10 335 62	L/XL

Ref. 10 338 60 / 10 338 61 / 10 338 62

Fall arrest harnesses

KEVLAR®*

Ideal solution for welding, firefighting. **1 point -** Rear attachment D-ring.

FEATURES & BENEFITS

Benefits: Strength and high temperature resistance
- Nomex®* webbing protects against weld spatter and sparks.
- Contrasting colours which facilitate inspection.
- Maximum temperature: 177°C.

Features: Exceptional heat and fire resistance
- Blue Nomex® flame-retardant webbing.
- Yellow Kevlar® inner core.
- Sub-pelvic strap.
- Adjustable leg straps.
- Manual chest and leg buckles.
- Clips on shoulder straps for lanyard when not in use.

Ref.	Description	Size
10 123 33	751K Single adjustment	S/M
10 123 34	751K Single adjustment	L/XL
10 123 35	751K Single adjustment	XXL

Ref.	Description	Size
10 123 36	650K Adjustable shoulder	S/M
10 123 37	650K Adjustable shoulder	L/XL
10 123 38	650K Adjustable shoulder	XXL

The Kevlar harness conform to EN 361(2002), ANSI, OSHA

*KEVLAR and Nomex are registered trademarks of E. I. Du Pont de Nemours and company.

ATEX ANTISTATIC

The solution for work at height in explosive atmospheres.
2 point - Dorsal attachment (webbing extension and loop) and sternal (with webbing loops).

FEATURES & BENEFITS

Benefits:
- Prevents the risks of ignition caused by electrostatic discharge.
- Dorsal extension strap facilitates connection.
- Detachable dorsal pad facilitates harness donning.

Features: Increase security
- Anti-static material.
- Sub-pelvic strap.
- Protective back pad.
- Adjustable shoulder straps.
- Adjustable leg straps with quick-connect buckles.

Ref.	Size
10 150 74	S/M
10 150 75	L/XL
10 305 10	XXL

Certified and complies with EN 361 (2002) and EN ATEX 13463-1 (2001)
Additional ATEX solutions available on demand.

TITAN™

FEATURES & BENEFITS

Benefits:
- Lightweight
- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

Features:
- Durable polyester webbing.
- Sub-pelvic strap keeps the wearer upright.
- Manual chest and leg buckles.
- 45 mm chest strap with metal buckle.

Ref.	Size	Description
10 118 91	Unique	2 point - Front webbing loops and rear attachment
10 118 90	Unique	1 point - Rear attachment.

Conforms to EN 361

Ref. 10 118 91

Ref. 10 118 90

Fall arrest / Work positioning harnesses

MILLER REVOLUTION™ R7 OFFS

Designed for highly corrosive offshore and coastal environments including wind energy and petrochemical industries.
2 point + work positioning - Front and rear attachment (front webbing loops) and work positioning side D-rings.

FEATURES & BENEFITS

Benefits: High corrosion resistance and reinforced harness

- Protection with PVC coating on back and sides D-rings.
- Fall indicator at dorsal D pad.
- Stand up D function for easy connection
- Stitched A security marking for attachment at back and chest points.
- Foldable side D-rings.
- Additional elastic keepers on shoulder strap.
- Longer stitching on the belt pad for greater strength.
- Custom identification labels on back housing.
- Back Pad with V shape.
- Self contained label pack.

Features: High resistant components

- 316 L Stainless steel PivotLink™.
- DualTech™ polyamide/polyester webbing.
- ErgoArmor™ padded back shield.
- Positioning belt.
- Quick-connect buckles on leg straps, belt & chest strap in anodized aluminium.
- Shoulder aluminium CAM buckle adjustment for easy fit.
- Back tool rings.

Ref.	Size
10 148 07/OFFS	S/M
10 148 08/OFFS	L/XL
10 148 09/OFFS	XXL

Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS

MILLER REVOLUTION™ AND H-DESIGN® HARNESS ACCESSORIES
SEE P 338-339

MILLER REVOLUTION™ R7 WIND

Ideal for work at height on onshore wind energy applications.
2 point + work positioning - Front and rear attachment (front webbing loops) and work positioning side D-rings.

FEATURES & BENEFITS

Benefits: High safety and comfort level

- Fall indicator at dorsal D pad.
- Stand up D function for easy connection.
- Stitched safety labels identify the front and rear anchorage points.
- Longer stitching on the belt pad for greater strength.
- Back pad with 'V' shape.
- Additional elastic keepers on shoulder strap.
- Custom identification labels on back housing.
- Self contained label pack.

Features: Comfort and durability

- Galvanised steel Pivot Link™.
- Polyester webbing.
- Shoulder strap adjustment with mating buckle.
- Chest strap mating buckle.
- Automatic steel quick connect buckle on leg and waist straps.
- Positioning belt.
- ErgoArmor™ padded back shield
- Back tool rings.

Ref.	Size
10 148 07/WIND	S/M
10 148 08/WIND	L/XL
10 148 09/WIND	XXL

Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS

Fall arrest/Work positioning harnesses

A work positioning systems is designed to hold a worker in a secure, hands-free working position and is used in conjunction with a fall protection system. A fall can occur while working and this is why a work positioning system is a combination of the fall arrest harnesses that complies with EN 361 together with a work positioning system to EN 358.

MILLER REVOLUTION™ AND H-DESIGN® HARNESS ACCESSORIES
SEE P 338-339

MILLER REVOLUTION™ R6

Smoother movement when ascending or descending.
3 point + work positioning - Dorsal and ventral D-rings, front attachment loops and work positioning belt

Ref.	Description	Size
10 142 57	DuraFlex® webbing	S/M
10 142 58	DuraFlex® webbing	L/XL
10 142 59	DuraFlex® webbing	XXL**

Ref.	Description	Size
10 142 60	DualTech™ webbing	S/M
10 142 61	DualTech™ webbing	L/XL
10 142 62	DualTech™ webbing	XXL**

MILLER REVOLUTION™ PREMIUM R5

Smoother movement when ascending or descending.
2 point + work positioning - Dorsal D-ring front attachment loops and work positioning belt.
Rotating work positioning belt for hands free.

Ref.	Description	Size
10 142 51	DuraFlex® webbing	S/M
10 142 52	DuraFlex® webbing	L/XL
10 142 53	DuraFlex® webbing	XXL**

Ref.	Description	Size
10 142 54	DualTech webbing	S/M
10 142 55	DualTech webbing	L/XL
10 142 56	DualTech webbing	XXL**

MILLER REVOLUTION™ PREMIUM R3

Ergonomic fit when bending or crouching.
2 point + work positioning
Dorsal D-ring front attachment loops and work positioning belt.
Fixed work positioning belt.

Ref.	Description	Size
10 142 42	DualTech webbing	S/M
10 142 43	DualTech webbing	L/XL
10 142 44	DualTech webbing	XXL**

COMMON FEATURES & BENEFITS

Benefits: Stretch to users movements

- Rotating PivotLink™ connections at **hip level.**
- Easy movement for ascent and descent.
- Full freedom of movement.
- Custom identification labels.

Features: Reduce user fatigue

- Elasticated DuraFlex® webbing* stretches to users movements.
- ErgoArmor™ padded back shield.
- Shoulder CAM buckles for easy fit.
- Quick Connect Buckles at legs, belt & chest.
- Web finials to store spare webbing.
- Self-contained label pack.
- Integrated accessories system.
- Dualtech™ webbing with shape retention memory.

Conforms to EN 361 and EN 358

**Made on demand

Fall arrest/Work positioning harnesses

New harness range dedicated to the utilities sector

MILLER H-DESIGN® BODYFIT HARNESS

New

FEATURES & BENEFITS

Benefits:

- Perfect fit to all body shapes.
- Greater comfort.

Features:

- Rotating and unique patented vertically adjustable belt.
- Belt with breathable padding.

MILLER H-DESIGN® BODYFIX HARNESS

New

FEATURES & BENEFITS

Benefits:

- Improved freedom of movement.

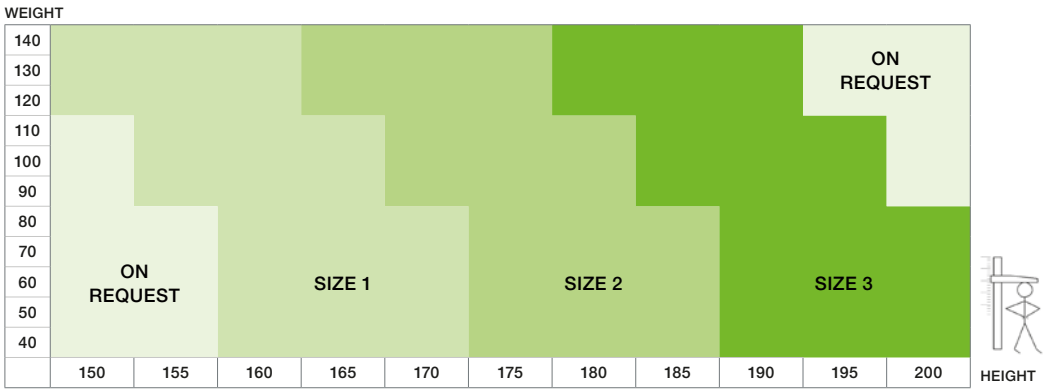
Features:

- Comfortable waist belt with breathable padding.

Miller H-Design® BodyFit

See page 324 for other Miller H-Design® Features and Benefits

SIZE SELECTION GUIDE



Miller H-Design® BodyFix

	SIZE 1	SIZE 2	SIZE 3
Waist size (W)	80 cm 100 cm	100 cm 120 cm	120 cm 140 cm
Thigh size (T)	Max 75 cm	Max 80 cm	Max 85 cm

Miller H-Design® BodyFit harness

Ref.	Name	Type of shoulder webbing	Nb of attachment points	Type of buckles	Type of front attachment	Size
10 335 28	MILLER H-DESIGN® BODYFIT	DuraFlex stretch	2	Mating	2 webbing loops	1
10 335 29						2
10 335 30						3
10 335 32					1 D-ring	1
10 335 33						2
10 335 34						3
10 335 36				Automatic	2 webbing loops	1
10 335 37						2
10 335 38						3
10 335 40					1 D-ring	1
10 335 41						2
10 335 42						3

Conforms to EN 361 and EN 358

Miller H-Design® BodyFix harness

Ref.	Name	Type of shoulder webbing	Nb of attachment points	Type of buckles	Type of front attachment	Size
10 335 12	MILLER H-DESIGN® BODYFIX	No stretch	2	Mating	2 webbing loops	1
10 335 13						2
10 335 14						3
10 335 16					1 D-ring	1
10 335 17						2
10 335 18						3

Conforms to EN 361 and EN 358

Fall arrest/Work positioning harnesses

Fall arrest/Work positioning harnesses

ELASTOTRANS

Suitable for work on pylons.
2 point + work positioning - Rear, 2 front attachment and work positioning side D-rings.

FEATURES & BENEFITS

Benefits: Reduces fatigue
- Full freedom of movement for access.
- Hands-free position.
- Excellent support for suspension.

Features: Comfort and freedom of movement
- Work positioning belt and leg straps.
- Stretchable shoulder straps.
- Ergonomically designed back-padding and padded leg straps.
- Quick-connect buckles for easy fit.
- Rear attachment extension webbing.

Ref.	Size
10 030 29	S
10 030 28	M/L
10 030 30	XL

Conforms to EN 361 and EN 358

ELASTOKUIK COMFORT

Offers full freedom of movement for access and excellent support for work.
2 point + work positioning - Rear, front and work positioning side attachment (front attachment loops) with belt.

FEATURES & BENEFITS

Benefits: Padding to support hands free position
- Excellent freedom of movement and extended reach.
- Easy to fit.
- Moving shoulder straps increases comfort and flexibility.

Features: Comfort
- Rotating work-positioning belt.
- Stretchable shoulder straps move with the worker.
- Quick-connect buckles.
- Comfortable back-padding in cordura.

Ref.	Size
10 030 23	S
10 030 22	M/L
10 030 24	XL

Conforms to EN 361 and EN 358

Fall arrest/Work positioning harnesses

MILLER® R'TST HARNESS

New

360° comfort harness!

FEATURES & BENEFITS

Benefits:
- Better comfort and focus on the job.
- Greater freedom of movement:
  - 180° rotation (90° sideways) for the worker: when front or side facing the pylon.
  - 360° rotation (180° sideways) for the worker: the worker's back can face the pylon.
- Easy inspection for increased safety.
- Easy and quick to adjust.

Features:
- Comfortable back pad.
- Rotating work-positioning belt.
- Extended work positioning rings on each side.
- Fall indicators.
- Cam buckles.

Ref.	Size
10 030 18/R	S
10 030 17/R	M/L

Conforms to EN 361 and EN 358

TITAN™

Cost effective for work positioning.

FEATURES & BENEFITS

Benefits:
- Lightweight
- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

Features:
- Durable polyester webbing.
- Sub-pelvic strap keeps the wearer upright.
- 45mm chest strap with metal buckle.
- Manual buckles.

Ref.	Size	Description
10 118 94	Unique	2 point + work positioning Front and rear attachment with work positioning belt. Front webbing loops.
10 118 93	Unique	1 point + work positioning Rear attachment with work positioning belt.

Conforms to EN 361 and EN 358

Ref. 10 118 94 Ref. 10 118 93

Fall arrest/Work positioning harnesses

RM

The perfect compromise between freedom of movement and excellent support for suspension.
3 point + work positioning - Rear and sternal attachment, ventral attachment loops and work positioning side attachment.

FEATURES & BENEFITS

Benefits: Stretch webbing

- Greater freedom of movement.
- Comfort with reduced fatigue.
- Excellent support for work in suspension.

Features: Easy fitting

- Work positioning belt and sit harness function.
- Elasticated webbing on shoulder straps.
- Lightweight and easy-to-fit.
- Quick connect buckles at legs and waist.
- Padded belt and leg straps.

Ref.	Size
10 034 38	S
10 034 39	M/L

Conforms to EN 361, EN 358 and EN 813

TOWER

Heavy-duty harness, designed for excellent comfort and support.
3 point + work positioning - Rear and front attachment (karabiner for fall arrest and ventral D-ring for access work) and work positioning side D-rings.

FEATURES & BENEFITS

Benefits:

- Belt and sit harness function.
- Belt prevents back injuries and promotes productivity.

Features:

- Ventral attachment point for work in suspension.
- High-quality, resistant webbing for increased durability.
- Work-positioning belt.
- Padded leg straps for enhanced comfort during suspension work.
- Back and shoulder pads.

Ref.	Size
10 062 55	M

Conforms to EN 361, EN 358 and EN 813

Suspension harnesses

A sit harness is used to suspend the operator in a comfortable work position with maximum freedom of movement. When there is the risk of a fall the operator should wear a full body harness. The sit harness conforms to EN813 and optionally EN 358. A full body harness conforms to EN 361 and may also fulfil a work positioning function in accordance with EN 358 and/or EN813.

Suspension system: *The forces are split between the leg straps and the waist belt rather than being concentrated on the legs, thus providing enhanced ergonomics and increased user comfort whilst reducing the risk of suspension trauma.*

ROPAX

Innovation and technology dedicated to rope access and rescue combining suspension comfort with freedom of movement.

FEATURES & BENEFITS

Benefits:
- Adjustment webbing straps between the leg straps and the belt.
- V Shape prevents straps from digging and causing irritation.
- Excellent lumber support and comfort.
- Clip-on design safely organises webbing after proper adjustment.
- Increased comfort in suspension.
- Triangular suspension to minimise discomfort and suspension trauma.

Features:
- New triangular suspension position
- Shoulder straps in V shape.
- Adjustable webbing sling.
- Extra-wide padded belt.
- Foldable side D-rings.
- Web finials.
- 3 large gear loops.
- Left & right tags to facilitate donning.
- Padded leg straps.

An additional webbing sling positions the ascender tight against the chest to facilitate ascension.

WITH Quick-connect buckles

Ref.	Description	Size
10 144 32	Black polyester webbing	S/M
10 144 33	Black polyester webbing	L/XL

WITH Manual Buckles

Ref.	Description	Size
10 144 34	Black polyester webbing	S/M
10 144 35	Black polyester webbing	L/XL

WITH Quick-connect buckles

Ref.	Description	Size
10 151 10	DualTech webbing with shape retention memory	S/M
10 151 11	DualTech webbing with shape retention memory	L/XL

Conforms to EN 361, EN 358 and EN 813

Suspension System

Options

ERGOSOFT DORSAL PAD

Designed to protect the back and facilitate harness donning.
- Protects against impacts and abrasion.
- Mesh membrane allows superior air flow.
- The transversal pad is fitted to the dorsal pad.

Ref.
10 152 05

TRANVERSAL PAD

Used in conjunction with dorsal pad, it allows the user to adopt a semi-reclined work position without straining the abdominals
- Fully adjustable, the transversal pad clips onto the ErgoSoft dorsal pad and connects to the climbing line by means of a karabiner.
- The sliding belt offers a greater freedom of movement and reach.

Ref.
10 152 06

Suspension harnesses

IBEXX-2R FULL BODY HARNESS

Designed for specialists working hands-free at height or in rescue.
3 point + work positioning - Rear, sternal and ventral attachment (loops) and work positioning side attachment with belt and padded leg straps.

Ref. 10 070 21

FEATURES & BENEFITS

Benefits: Excellent suspension comfort

- Belay connection link distributes the loads to larger muscle groups.
- Reduces discomfort.
- Minimises suspension trauma.
- Easy to fit.

Features: Fall arrest and work-positioning

- Ventral and sternal front webbing loops attachment.
- Attachment point for a descender and fall arrest device.
- Advanced buckling system.

Ref.	Description	Size
10 073 86	With tools holder	S
10 070 22	With tools holder	M/L
10 073 87	With tools holder	XL
10 102 69	With tools holder	M/L (black)

Conforms to EN 361, EN 358 and EN 813

Ref.	Description	Size
10 070 21	Without tools holder	M/L

Ref. 10 070 22 / 10 073 86 / 10 073 87

RAM

Flexible sit harness is suitable for for mountain rescue technicians where the harness is worn for short durations only sit Harness.

FEATURES & BENEFITS

Benefits: Comfortable work position

- Easy to fit.
- Belay connection link distributes the loads to larger muscles groups.
- Minimises discomfort and suspension trauma.
- Padding provides excellent support and comfort during suspension.

Features: Sit harness

- Waist belay loop for rescue and rope access.
- Padded belt and leg straps.
- Belt with equipment loops.
- Lightweight.

Ref.	Size
10 073 90	S
10 070 25	M/L
10 073 91	XL

Conforms to EN 813

Ref.	Size
10 102 51	S
10 102 52	M/L
10 102 53	XL

Conforms to EN 813

Work positioning belts

Miller offers a range of heavy-duty work-positioning belts designed to support the user in a hands-free work position at height. These belts can be used on their own when there is no risk of a fall, or alternatively in conjunction with a harness for fall arrest protection.

TITAN™ WORK POSITIONING BELT

2 Side D-rings.

FEATURES & BENEFITS

Benefits:

- Lightweight.
- 2 Stainless steel side D-rings for use with positioning lanyard.

Feature:

- Belt and webbing in polyester.

Ref.	Size
10 082 32	Unique

Conforms to EN 358

520 WORK POSITIONING BELT

Ideal for comfortable hands-free work positioning at height
2 Side D-rings rings

FEATURES & BENEFITS

Benefit:

- Allows good freedom of movement.

Features:

- 100mm wide padded belt.
- Quick-connect buckle.
- 2 large side D-rings for use with positioning lanyard.

Ref.	Size
10 063 19	M
10 063 20	L

Conforms to EN 358

522 WORK POSITIONING BELT

2 Side D-rings.

FEATURES & BENEFITS

Benefits:

- Increased comfort and reduced fatigue when working for long hours.
- Belt can be fitted with shoulder straps to relieve the load on the user's hips.
- 2 side D-rings for use with positioning lanyard.

Features:

- Heavy-duty synthetic back-support
- 200mm wide comfort back pad with quick-connect buckle.
- Fitted with loops for tool bags and accessories.

Ref.	Size
10 063 21	M
10 063 22	L

Conforms to EN 358

Miller Revolution™ and H-Design® harness accessories

The Revolution PivotLink™ and Snap Together Clip connections provide an attachment point for a multitude of accessories and individual tool pouches with an innovative design that accommodates: tools, mobile phones, water bottles and more, accessories are easily attached and detached – distributing weight across the hips and shoulders for a more comfortable fit and greater mobility, universal attachment clips fit on your existing accessories or tool rig and easily attach/detach

MILLER H-DESIGN® WEBBING EXTENSION
SEE P 359

SNAP TOGETHER CLIP FOR MILLER HARNESS ACCESSORIES UP TO 2KG

Ref.	Description
10 156 15	Snap together clip, withstands up to 2kg of weight

SET OF 10 PARK POINT RINGS FOR MILLER H-DESIGN OR REVOLUTION HARNESSES

Ref.
10 338 11

OPEN BOLT & BULL PIN BAG

FEATURES & BENEFITS

1. Accessories have a female clip that attaches and locks over the male connection point.
2. Once attached, the accessory pivots to maintain a level position.
3. Easily remove and /or change accessories for convenience by simply lifting from connection point.

Ref.	Size
10 142 73	Large
10 142 74	Medium

Ref.	Description
10 164 80	Closable

CELL PHONE HOLDER + CONNECTOR

Ref.	Size
10 142 70	Mini
10 142 71	Regular

WATER BOTTLE HOLDER*

Ref.
10 142 72

**Bottle not included*

Miller Revolution™ and H-Design® harness accessories

REVOLUTION HARNESS SELF ADHESIVE LABELS X 10

Ref.	Colour
10 142 78	Blue
10 142 79	Yellow
10 142 80	Red
10 142 81	Green

PADDED HAMMER LOOP

Ref.
10 160 80

LARGE TOOL BAG WITH HAMMER LOOPS

Ref.
10 150 50

SHOULDER / LEG PADS

Ref.
10 142 76

2 POCKET NAIL AND TOOL POUCH

Ref.
10 142 75

ZIPPED CYLINDRICAL UTILITY POUCH

Ref.
10 155 10

REMOVABLE DORSAL PAD

Ref.
10 111 93

Technical guide

NAME	STANDARD	REF.	SIZES	ATTACHMENT POINT				WEB	BUCKLES			
				Dorsal	Sternal	Ventral	Side		Shoulder	Belt	Leg	Chest
REVOLUTION™ RANGE												
Miller Revolution™ R2	EN 361	1014236	S/M	•	•			DuraFlex	CAM		Automatic	Automatic
		1014237	L/XL	•	•			DuraFlex	CAM		Automatic	Automatic
		1014238	XXL	•	•			DuraFlex	CAM		Automatic	Automatic
Miller Revolution™ R2	EN 361	1014239	S/M	•	•			Dualtech	CAM		Automatic	Automatic
		1014240	L/XL	•	•			Dualtech	CAM		Automatic	Automatic
		1014241	XXL	•	•			Dualtech	CAM		Automatic	Automatic
Miller Revolution™ R3	EN 361, EN 358	1014242	S/M	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014243	L/XL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014244	XXL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
Miller Revolution™ R5	EN 361, EN 358	1014251	S/M	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic
		1014252	L/XL	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic
		1014253	XXL	•	•		•	DuraFlex	CAM	Automatic	Automatic	Automatic
Miller Revolution™ R5	EN 361, EN 358	1014254	S/M	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014255	L/XL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014256	XXL	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
Miller Revolution™ R6	EN 361, EN 358	1014257	S/M	•	•	•	•	Duraflex	CAM	Automatic	Automatic	Automatic
		1014258	L/XL	•	•	•	•	Duraflex	CAM	Automatic	Automatic	Automatic
		1014259	XXL	•	•	•	•	Duraflex	CAM	Automatic	Automatic	Automatic
		1014260	S/M	•	•	•	•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014261	L/XL	•	•	•	•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014262	XXL	•	•	•	•	Dualtech	CAM	Automatic	Automatic	Automatic
WIND INDUSTRY												
Miller Revolution™ R7 WIND	EN 361, EN 358, OSHA/ANSI /CSA/AS/NZ	1014807/WIND	S/M (US)	•	•		•	Polyester	Manual	Automatic	Automatic	Manual
		1014808/WIND	L/XL (US)	•	•		•	Polyester	Manual	Automatic	Automatic	Manual
		1014809/WIND	XXL (US)	•	•		•	Polyester	Manual	Automatic	Automatic	Manual
Miller Revolution™ R7 OFFS	EN 361, EN 358, OSHA/ANSI/ CSA/AS/NZ	1014807/OFFS	S/M (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014808/OFFS	L/XL (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
		1014809/OFFS	XXL (US)	•	•		•	Dualtech	CAM	Automatic	Automatic	Automatic
H-DESIGN® range												
Miller H-Design®	EN 361	1032855	1	•				DuraFlex	Manual		Manual	Manual
		1032856	2	•				DuraFlex	Manual		Manual	Manual
		1032857	3	•				DuraFlex	Manual		Manual	Manual
		1032859	1	•				DuraFlex	Manual		Automatic	Automatic
		1032860	2	•				DuraFlex	Manual		Automatic	Automatic
		1032861	3	•				DuraFlex	Manual		Automatic	Automatic
		1032863	1	•	•			DuraFlex	Manual		Manual	Manual
		1032864	2	•	•			DuraFlex	Manual		Manual	Manual
		1032865	3	•	•			DuraFlex	Manual		Manual	Manual
		1032871	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032872	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032873	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032867	1	•	•			DuraFlex	Manual		Manual	Manual
		1032868	2	•	•			DuraFlex	Manual		Manual	Manual
		1032869	3	•	•			DuraFlex	Manual		Manual	Manual
		1032875	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032876	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032877	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032831	1	•				Polyester	Manual		Manual	Manual
		1032832	2	•				Polyester	Manual		Manual	Manual
		1032833	3	•				Polyester	Manual		Manual	Manual
		1032835	1	•				Polyester	Manual		Automatic	Automatic
		1032836	2	•				Polyester	Manual		Automatic	Automatic
		1032837	3	•				Polyester	Manual		Automatic	Automatic
		1032839	1	•	•			Polyester	Manual		Manual	Manual
		1032840	2	•	•			Polyester	Manual		Manual	Manual
		1032841	3	•	•			Polyester	Manual		Manual	Manual
		1032847	1	•	•			Polyester	Manual		Automatic	Automatic
		1032848	2	•	•			Polyester	Manual		Automatic	Automatic

Technical guide

NAME	STANDARD	REF.	SIZES	ATTACHMENT POINT				WEB	BUCKLES			
				Dorsal	Sternal	Ventral	Side		Shoulder	Belt	Leg	Chest
H-DESIGN® range												
Miller H-Design®		1032849	3	•	•			Polyester	Manual		Automatic	Automatic
		1032843	1	•	•			Polyester	Manual		Manual	Manual
		1032844	2	•	•			Polyester	Manual		Manual	Manual
		1032845	3	•	•			Polyester	Manual		Manual	Manual
		1032851	1	•	•			Polyester	Manual		Automatic	Automatic
		1032852	2	•	•			Polyester	Manual		Automatic	Automatic
		1032853	3	•	•			Polyester	Manual		Automatic	Automatic
Miller H-Design® Hi-Vis vest	EN 20471, EN 13688	1032895	1-2									
		1032896	2-3									
		1032897	1-2									
		1032898	2-3									
Miller H-Design® harness with Hi-Vis vest	EN 20471, EN 13688 EN 361	1032917	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032918	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032919	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032920	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032921	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032922	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032929	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032930	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032931	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032932	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032933	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032934	3	•	•			DuraFlex	Manual		Automatic	Automatic
Miller H-Design® Quick-fit vest		1032880										
Miller H-Design® harness with quick-fit vest	EN 361	1032887	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032888	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032889	3	•	•			DuraFlex	Manual		Automatic	Automatic
		1032890	1	•	•			DuraFlex	Manual		Automatic	Automatic
		1032891	2	•	•			DuraFlex	Manual		Automatic	Automatic
		1032892	3	•	•			DuraFlex	Manual		Automatic	Automatic
Miller H-Design® confined space belts		1033561	S/M							Automatic		
		1033562	L/XL							Automatic		
Miller H-Design® confined space harness with belt	EN 361	1033860	1	•	•			DuraFlex	Manual	Automatic	Automatic	Automatic
		1033861	2	•	•			DuraFlex	Manual	Automatic	Automatic	Automatic
		1033862	3	•	•			DuraFlex	Manual	Automatic	Automatic	Automatic
Miller H-Design® BodyFit	EN 361	1033528	1	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033529	2	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033530	3	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033532	1	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033533	2	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033534	3	•	•		•	DuraFlex	Manual	Manual	Manual	Manual
		1033536	1	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
		1033537	2	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
		1033538	3	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
		1033540	1	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
		1033541	2	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
		1033542	3	•	•		•	DuraFlex	Manual	Automatic	Automatic	Automatic
Miller H-Design® BodyFix	EN 361	1033512	1	•	•		•	Polyester	Manual	Manual	Manual	Manual
		1033513	2	•	•		•	Polyester	Manual	Manual	Manual	Manual
		1033514	3	•	•		•	Polyester	Manual	Manual	Manual	Manual
		1033516	1	•	•		•	Polyester	Manual	Manual	Manual	Manual
		1033517	2	•	•		•	Polyester	Manual	Manual	Manual	Manual
		1033518	3	•	•		•	Polyester	Manual	Manual	Manual	Manual

Technical guide

NAME	STANDARD	REF.	SIZES	ATTACHMENT POINT				WEB	BUCKLES			
				Dorsal	Sternal	Ventral	Side		Shoulder	Belt	Leg	Chest
TITAN™ range												
TITAN™	EN 361	1011890	unique	•				Polyester			Manual	Manual
TITAN™	EN 361	1011891	unique	•	•			Polyester			Manual	Manual
TITAN™ + positioning belt	EN 361, EN 358	1011893	unique	•			•	Polyester			Manual	Manual
TITAN™ + positioning belt	EN 361, EN 358	1011894	unique	•	•		•	Polyester			Manual	Manual
ROPAX RANGE												
Ropax Dualtech	EN 361, EN 358, EN 813	1015110	S/M	•	•	•	•	Dualtech	Manual	Manual	Automatic	
		1015111	L/XL	•	•	•	•	Dualtech	Manual	Manual	Automatic	
Ropax - Quick connect buckle	EN 361, EN 358, EN 813	1014432	S/M	•	•	•	•	Black polyester	Manual	Manual	Automatic	
		1014433	L/XL	•	•	•	•	Black polyester	Manual	Manual	Automatic	
Ropax manual buckle	EN 361, EN 358, EN 813	1014434	S/M	•	•	•	•	Black polyester	Manual	Manual	Manual	
		1014435	L/XL	•	•	•	•	Black polyester	Manual	Manual	Manual	
ATEX CERTIFIED												
Antistatic ATEX	EN 361, ATEX 94/9/CE	1015074	S/M	•	•			Polyester Antistatic	Manual		Automatic	Automatic
		1015075	L/XL	•	•			Polyester Antistatic	Manual		Automatic	Automatic
		1030510	XXL	•	•			Polyester Antistatic	Manual		Automatic	Automatic
KEVLAR - FLAMED RESISTANT												
Kevlar	EN 361	1012333	S/M	•				Nomex	-		Manual	Manual
		1012334	L/XL	•				Nomex	-		Manual	Manual
		1012335	XXL	•				Nomex	-		Manual	Manual
Kevlar + adjustable shoulder strap	EN 361	1012336	S/M	•				Nomex	Manual		Manual	Manual
		1012337	L/XL	•				Nomex	Manual		Manual	Manual
		1012338	XXL	•				Nomex	Manual		Manual	Manual
TECHNICAL HARNESS												
Elastokuik comfort	EN 361, EN 358	1003023	S	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic
		1003022	M/L	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic
		1003024	XL	•	•		•	Polyamide	Manual	Automatic	Automatic	Automatic
Miller R'TST	EN 361, EN 358	1003018/R	S	•	•		•	Polyamide	CAM	Automatic	Automatic	
		1003017/R	M/L	•	•		•	Polyamide	CAM	Automatic	Automatic	
Elastotrans	EN 361, EN 358	1003028	M/L	•	•		•	Polyamide	Manual	Automatic	Automatic	
		1003029	S	•	•		•	Polyamide	Manual	Automatic	Automatic	
		1003030	XL	•	•		•	Polyamide	Manual	Automatic	Automatic	
RM	EN 361, EN 358	1003438	S	•	•	•	•	Polyamide	Manual	Automatic	Automatic	
		1003439	M/L	•	•	•	•	Polyamide	Manual	Automatic	Automatic	
Tower	EN 361, EN 358, EN813	1006255	M	•	•	•	•	Polyester	Manual	Manual	Manual	
IBEXX-2R (black)	EN 361, EN 358, EN 813	1010269	M/L	•	•	•	•	Polyester	Manual	Manual	Manual	Manual
IBEXX-2R	EN 361, EN 358, EN 813	1007021	M/L	•	•	•	•	Polyester	Manual	Manual	Manual	Manual
		1007022	M/L	•	•	•	•	Polyester	Manual	Manual	Manual	Manual
		1007386	S	•	•	•	•	Polyester	Manual	Manual	Manual	Manual
		1007387	XL	•	•	•	•	Polyester	Manual	Manual	Manual	Manual
RAM sit Harness	EN 813	1007025	M/L			•		Polyester		Manual	Manual	
		1007390	S			•		Polyester		Manual	Manual	
		1007391	XL			•		Polyester		Manual	Manual	
RAM sit Harness (black)	EN 813	1010251	S			•		Polyester		Manual	Manual	
		1010252	M/L			•		Polyester		Manual	Manual	
		1010253	XL			•		Polyester		Manual	Manual	

Self retracting lifelines

Blocks

MILLER SELF RETRACTING LIFELINES FEATURES

SWIVEL

Prevent damage to the lifeline from twisting during use and binding inside of the unit.

WEBBING

Lightweight and high abrasion resistance.

FALL INDICATOR

Highly visible fall indicator at the snap hook identifies when the unit needs to be removed from service.

EDGE TESTED

Innovative technology for working on edges featuring web with special heat and cut resistance.

Edge tested

ENERGY ABSORBER

Reduces the fall arrest forces in case of a all, located on the lifeline.

SCAFF HOOK

Large opening karabiners allow connecting the self retracting lifeline to a large range of anchorage point.

CABLE GALVANISED OR STAINLESS STEEL

Cable and karabiners are treated to prevent from corrosion and rusting and extend service life.

Self retracting lifelines cable

Self-retracting lifelines are mechanical devices with quick-activating braking system that limits a free fall to centimetres, with reduced fall arrest forces making this especially suitable for low-space fall clearance. The automatic retractable cable allows freedom of movement for workers who need to move relatively quickly up and down on a worksite. Miller® offers the most comprehensive range of fall arrest blocks including robust lightweight composite blocks, heavy-duty fall arrest and rescue models with metallic housing and choice of lifeline materials: webbing, stainless steel, and galvanised steel with lengths available from 2m to 40m.

FALCON™ BLOCK

The safest, most robust and comprehensive range of composite retractable lifelines on the market. 6.2m to 20m - Cable self-retracting lifeline.

FEATURES & BENEFITS

Benefits: Increase durability

- Smooth round edges increase durability.
- Stops the fall within a few centimetres for a quick and safe rescue.
- Lightweight, robust composite unit.
- Easy-to-install.
- Tested and approved for horizontal applications*.
- No annual factory re-certification required** – Lowers cost of ownership and increases productivity.
- Lifetime housing guarantee***.

Features: Easy adjustment

- Quick-activating braking mechanism.
- Highly visible fall indicator.
- Screwgate karabiner.
- Dual stainless steel swivels (unit top and snaphook).
- Corrosion-resistant stainless steel and aluminium internal components.
- High impact resistant nylon housing.
- Ergonomically designed moulded handle (15 & 20m models).
- Unique side payout design reduces wear on the entry guide bushing and cable.

REF.	CABLE LENGTH METERS	CABLE	CONNECTORS				WEIGHT KG	DIMENSIONS MM
			TOP		BOTTOM	SNAP HOOK WITH FALL INDICATOR		
			KARABINER	SWIVEL	SWIVEL			
10 117 28	6.2	Galvanised	•	•	•	Steel	4	255 x 213 x 101
10 117 42	10	Galvanised	•	•	•	Steel	5	255 x 213 x 101
10 117 46	15	Galvanised	•	•	•	Steel	6.7	342 x 246 x 101
10 117 50	20	Galvanised	•	•	•	Steel	7.6	342 x 246 x 101
10 117 29	6.2	Stainless steel	•	•	•	Steel	4	255 x 213 x 101
10 117 43	10	Stainless steel	•	•	•	Steel	5	255 x 213 x 101
10 117 47	15	Stainless steel	•	•	•	Steel	6.7	342 x 246 x 101
10 117 51	20	Stainless steel	•	•	•	Steel	7.6	342 x 246 x 101
10 139 60	6.2	Stainless steel			•	Stainless steel	4	255 x 213 x 101
10 122 61	10	Stainless steel			•	Stainless steel	5	255 x 213 x 101
10 122 62	15	Stainless steel			•	Stainless steel	6.7	342 x 246 x 101
10 122 63	20	Stainless steel			•	Stainless steel	7.6	342 x 246 x 101
ATEX								
10 179 21	10	Stainless steel	•		•	•	5	255 x 213 x 101
OFFSHORE KIT								
10 302 22	20	Stainless steel	•	•	•	Stainless steel	7.6	342 x 246 x 101
+ red protective bag								

Additional models are available upon request. Please contact our technical service.

Conforms to EN 360

* When used with the appropriate manufacturer recommended equipment.

** The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.

*** When used under typical working conditions.

Self retracting lifelines cable

BLACK RHINO™ BLOCK

Designed to endure the daily rigours of harsh environments.
2.7m – stainless steel cable lifeline.

FEATURES & BENEFITS

Benefits:
- The smallest and lightest 2.7-metre cable lifeline on the market
- No annual factory re-certification required* – lowers cost of ownership and increases productivity.
- Corrosion resistant components.
- Meets all applicable global industry standards.

Features:
- Quick-activating braking system in high strength stainless steel.
- Integrated fall indicator.
- Integrated internal shock absorber.
- Aluminium housing and hub.

Ref.	Description
10 124 10	Black Rhino with swivel screwgate karabiner and swivel snap hook (22mm)
10 123 92	Black Rhino with swivel scaffold hook (65mm) and swivel snap hook (22mm)

* The CE standard requires inspection by a trained end-user competent person, following the Miller Repair Guide.

Conforms to EN 360

MIGHTYLITE™ BLOCK

Heavy-duty blocks for harsh conditions and tough environment.
6.2m to 40m – Cable self retracting lifeline.

FEATURES & BENEFITS

Benefit: For harsh conditions and tough environment
- Heavy-duty performance from a compact and easy-to-use block.

Features: Lightweight composite blocks with heavy-duty fall arrest
- Available with webbing, galvanised or stainless steel cable.
- Lifeline available in 6.2 to 40m.
- Pressed steel housing.
- Stainless steel springs.
- Integrated fall indicator.

REF.	MIGHTYLITE STEEL HOUSING			CABLE			HANDLE
				STAINLESS STEEL	GALVANISED	WEBBING	
	MODEL	LENGTH (M)	WEIGHT (KG)	Ø 4.8MM	Ø 4.8MM	25MM	
10 045 92	MI55	15	9.5	•			•
10 045 93	MI56	20	14.9	•			•
10 045 94	MI57	30	19	•			•
10 045 95	MI58	40	23.6	•			•
10 028 20	MI50	6.2	4		•		
10 045 71	MI54	10	5.6		•		
10 045 73	MI55	15	9.5		•		•
10 045 72	MI56	20	14.9		•		•
10 045 74	MI57	30	19		•		•
10 045 75	MI58	40	23.6		•		•
10 028 27	MI70	6.2	3.5			•	
10 028 28	MI71	15.5	9.4			•	

Conforms to EN 360

MIGHTEVAC® RESCUE BLOCK

FEATURES & BENEFITS

Benefits: Heavy duty performance
- Easy-to-use.
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system.
- *Conforms to EN 360 and EN 1496.*

For more details, see page 379.

Self retracting lifelines webbing - Edge tested

MILLER TURBOLITE™ EDGE SELF-RETRACTING LIFELINE

New

The Miller TurboLite edge is a lightweight and highly durable 2m edge-tested web self-retracting lifeline. It is certified at 140kgs and approved for foot level attachment.

FEATURES & BENEFITS

Benefits:
- Increased freedom of movement.
- Comfort at work.
- Reduced fall arrest distance, especially important when little vertical clearance is available.

Features:
- A twist-lock top karabiner for easy attachment to harness back D-ring.
- A swivel between housing and absorber to follow movements in all directions.
- A unique power spring mechanism inside housing for smooth sliding of lifeline
- Integrated fall indicator.
- Unique aluminium karabiner with integrated swivel avoids twist effect of the webbing which optimises webbing retractability (less risk of blocking), without adding length (no separate swivel).
- Very quick locking mechanism.

Four combinations of connectors

Ref.	Anchorage connection	Harness connection	
10 334 64	Scaff hook 60mm with integrated swivel	Twistlock Alu	
10 334 65	Twistlock Alu with integrated swivel	Twistlock Alu	
10 334 66	Scaff hook GO60 60mm with integrated swivel	Twistlock Alu	
10 334 67	–	–	

Certified to the requirements of EN 360: 2002 - VG11.085 (FF2) + VG11.060 (Edge tested)
140kg certified *(VG11.062)*

SCORPION™ EDGE BLOCK

Inexpensive alternative for single energy absorbing lanyard.
2.7m – Edge tested retractable webbing lifeline.

FEATURES & BENEFITS

Benefits:
- Reduces the impact forces due to a fall to under 6kN.
- Reduces the risk of tripping or snagging.
- Eliminates the need for an extended fall clearance.
- Housing and internal components are corrosion resistant.
- No annual factory re-certification required* – lowers cost of ownership and increases productivity.

Features:
- Extremely robust and lightweight.
- Quick-activating braking mechanism limits a free fall to centimetres.
- Visual fall indicator – indicates the unit must be removed from service.
- Corrosion-resistant internal parts.
- High impact polymer cover.
- Stainless steel/aluminium components.
- Swivel at the top of unit to prevent lifeline from twisting during use.
- Weight: 1.750kg.

Ref.	Anchorage connector		Harness connector
10 168 40	Steel screwgate karabiner		Steel snap hook
10 168 41	Scaffold hook, (opening 63 mm)		Aluminium screwgate karabiner
10 168 42	Steel scaffold hook, (opening 55 mm)		Steel snap hook

Self retracting lifelines webbing

TURBOLITE™ BLOCK

Best alternative to shock-absorbing lanyards used in Factor 2.
2m – Self retracting webbing lifeline.

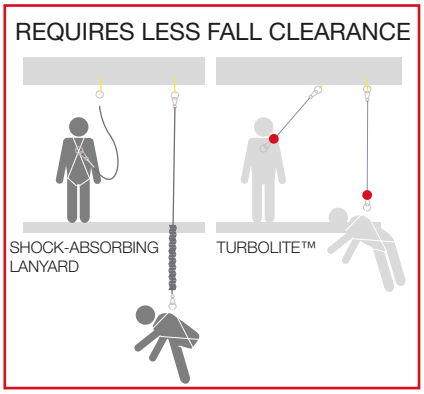
FEATURES & BENEFITS

Benefits:
- Usable in fall factor 2
- Compact & lightweight.
- Low space clearance of 1.80m compared to 2.50m for a shock-absorbing lanyard (fall factor 0).
- Adapted to all situations when working with low space clearance.
- Can be used in Fall Factor 2 (below the back D-ring and not lower than foot level).
- Can be used both ways around
- Rated for up to a 140kg in fall factor 0 and 1; and a 100kg user in fall factor 2.
- Abrasion resistance and long service life.
- No annual factory recertification required. *

Features:
- Built-in web fall indicator identifies when to remove from service.
- Quick activating patent pending braking system.
- Provides 2m working capacity lifeline.
- Engineered webbing (vectran/polyester webbing) for greater abrasion resistance and long service life.
- Built-in swivel prevents lifeline from twisting during use.
- High-strength, impact-resistant nylon housing for maximum durability.

Ref.	Webbing side	Block side
10 180 15	Twistlock	Twistlock
10 180 13	Scaff hook (65mm)	Twistlock
10 180 14	Twistlock	Scaff hook (65mm)
10 179 00	Snap hook (21mm)	Twistlock (21mm)

Conforms to EN 360.
** The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.*



TWIN TURBO™ SYSTEM

An effective solution when working with low fall clearance

FEATURES & BENEFITS

Benefits:
- Easily adapts two (2) lightweight Miller TurboLite™.
- For continuous 100% tie-off.
- Easy-to-use and assemble/disassemble.
- Easily remove TurboLite from D-Ring connector for inspection/cleaning/ replacement.

Features:
- Innovative design that easily connects to the back D-ring of any full body harness.
- Increases worker productivity and versatility with freedom of movement.
- Permits TurboLite to swivel in multiple directions for greater mobility.
- Swivel action prevents webbing from twisting and binding inside the unit.
- Webbing payout smoothly extends and retracts without interruption.
- Weight: bracket: 0.395kg.
- Weight: Twin Turbo: 2.1kg.

Ref.	Description
10 297 15	Twin Turbo bracket
10 297 16	Twin Turbo bracket & two TurboLite 1018013 with 2 aluminium scaff hook

Conforms to EN360 & EN362

Self retracting lifelines webbing

FALCON™ BLOCK

6m-Self retracting webbing lifeline

FEATURES & BENEFITS

Benefits:
- Nylon casing comes with a lifetime guarantee.
- Best length/weight ratio on the market (6m unit weighs only 1.5kg).

Features:
- Lightest, most compact 6m web self-retracting lifeline.
- Quick activating braking mechanism.
- Webbing provides extremely high abrasion resistance (tested > 20,000 cycles).
- Offers Xtreme durability with a strong, composite housing.
- Swivel at the top of unit to prevent lifeline from twisting during use.

Ref.	Anchorage connection	Harness connection
10 167 93	Swivel	-
10 167 94	Scaff hook alu (65mm)	Screwgate alu
10 167 95	Screwgate alu	Screwgate alu
10 167 96	Screwgate alu	Snap hook alu (22mm)

Conforms to EN 360

An annual inspection by a Miller Service Point (MSP) or the factory is mandatory. At the time of examination, the device must be opened and subjected to a complete inspection.

FALCON™ BLOCK WITH FALL INDICATOR

FEATURES & BENEFITS

Benefits:
- Stops the fall within a few centimeters (within 0.85 m).
- In case of a fall, the fall indictaor deploys and the warning label appears*.
- No annual re-certification **.

Features:
- Quick activation.
- Fall indicator.
- Visual, tactile and functional inspection.

Ref.	Anchorage connection	Harness connection
10 311 40	Aluminium twist lock Karabiner	Aluminium twist lock Karabiner

** A self retracting lifeline that has arrested a person's fall from height must not be used again until a competent person has agreed on its further use. The product must be returned to the manufacturer or a Miller Service Point (MSP) together with the instruction manual (including the annual inspection data) for inspection and recertification.*

*** A check sheet has been developed and is available to all persons responsible for periodic examination. However the webbing must be replaced every 5 years, just as for the other webbing retractable devises.*

Self retracting lifelines webbing

AVIABLOC

1.5m and 2.5m – Retractable polyamide webbing lifeline

FEATURES & BENEFITS

Benefits:
- Working capacity of 2.5m maximum.
- Reduces the impact force of a fall.
- Integrated shock-absorber.
- Swivel at the harness connexion side to avoid twisting of the webbing.

Ref. Housing	Length	Anchorage connection	Harness connection
10 030 59	**1.5m**	Sgk*	Sgk*
10 028 71	**2.5m**	Sgk*	Sgk*
10 108 93	**2.5m**	Snap hook	Sgk*
10 083 32	**2.5m**	-	-

Ref. No Housing	Length	Anchorage connection	Harness connection
10 083 31	**2.5m**	Sgk*	Sgk*
10 083 30	**2.5m**	-	Sgk*

Conforms to EN 360

*Sgk: screw gate karabiner

Ref. 10 030 59
Ref. 10 028 71

Ref. 10 083 31

SCORPION™ BLOCK

Affordable alternative to shock-absorbing lanyards requiring reduced fall clearance.
2.7m - 2.8m – Self retracting webbing lifeline.

FEATURES & BENEFITS

Benefits: Reduced fall arrest forces
- Unique snap-hook design for easy attachment to harness D-ring.
- Eliminates the need for an extended fall distance clearance.
- The retractable lifeline reduces the risk of tripping or snagging.
- No annual factory re-certification required* – lowers cost of ownership and increases productivity.

Features: Greater mobility and prevents tripping hazards
- Quick-activating, high-strength stainless steel braking system.
- Compact and lightweight (1.6kg).
- Visual fall indicator – indicates when the unit must be removed from service.
- Corrosion-resistant internal parts.
- High impact polymer cover.
- Stainless steel/aluminium body.
- Lifeline material: polyamide webbing.
- Swivel at the top of unit to prevent lifeline from twisting during use.

Ref.	Length	Anchorage connection	Harness connection
10 085 88	**2.8m**	Snap hook (18mm)	Scaff hook (50mm)+swivel
10 085 87	**2.7m**	Snap hook (22mm)+swivel	CS20 screw steel karabiner (17mm)
10 085 94	**2.8m**	Scaff hook (50mm)+swivel	CS20 screw steel karabiner (17mm)+swivel
10 085 93	**2.7m**	Scaff hook (50mm)+swivel	Snap hook
10 106 30	**2.5m**	Alu screw karabiner	Alu screw karabiner+swivel

*The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.

Conforms to EN 360

Self retracting lifeline

LENGTH	REF.	STANDARD	CABLE		WEBBING	FALL FACTOR	ANCHORAGE CONNECTION		HARNESS CONNECTION		FALL INDICATOR	WEIGHT
			Galvanised	Stainless Steel			Karabiner	Swivel	Swivel	Harness connection		
FALCON™												
6.2m	1011728	EN 360	•			0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	4kg
10m	1011742	EN 360	•			0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	5kg
15m	1011746	EN 360	•			0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	6.7kg
20m	1011750	EN 360	•			0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	7.6kg
6.2m	1011729	EN 360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	4kg
10m	1011743	EN 360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	5kg
15m	1011747	EN 360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	6.7kg
20m	1011751	EN 360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	7.6kg
6.2m	1013960	EN 360		•		0 - 1		•		Stainless steel snap hook	At snap hook	4kg
10m	1012261	EN 360		•		0 - 1		•		Stainless steel snap hook	At snap hook	5kg
15m	1012262	EN 360		•		0 - 1		•		Stainless steel snap hook	At snap hook	6.7kg
20m	1012263	EN 360		•		0 - 1		•		Stainless steel snap hook	At snap hook	7.6kg
10m	1017921	ATEX					Screwgate	•	•	Steel snap hook	At snap hook	5kg
20m	1030222	OFFSHORE KIT		•			Stainless steel	•	•	Stainless steel snap hook	At snap hook	7.6kg
Note: Factor 2 only with steel sling												
BLACK RHINO												
2.7m	1012410	EN 360		•		0 - 1	Screwgate	•	•	Steel snap hook	At snap hook	2kg
2.7m	1012392	EN 360		•		0 - 1	Scaffold hook	•	•	Steel snap hook	At snap hook	2.3kg
MIGHTYLITE												
6.2m	1002820	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	4kg
10m	1004571	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	5.6kg
15m	1004573	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	9.5kg
20m	1004572	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	14.9kg
30m	1004574	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	19kg
40m	1004575	EN 360	•			0 - 1			•	Steel snap hook	At snap hook	23.6kg
15m	1004592	EN 360		•		0 - 1			•	Steel snap hook	At snap hook	9.5kg
20m	1004593	EN 360		•		0 - 1			•	Steel snap hook	At snap hook	14.9kg
30m	1004594	EN 360		•		0 - 1			•	Steel snap hook	At snap hook	19kg
40m	1004595	EN 360		•		0 - 1			•	Steel snap hook	At snap hook	23.6kg
6.2m	1002827	EN 360			•	0 - 1			•	Steel snap hook	At snap hook	3.5kg
15.5m	1002828	EN 360			•	0 - 1			•	Steel snap hook	At snap hook	9.4kg
MIGHTY EVAC												
15m	1005149	EN 360, EN1496	•			0 - 1			•	Steel snap hook	At snap hook	13.5kg
30m	1005160	EN 360, EN1496	•			0 - 1			•	Steel snap hook	At snap hook	24.7kg
40m	1005161	EN 360, EN1496	•			0 - 1			•	Steel snap hook	At snap hook	27.6kg
15m	1014390	EN 360, EN1496		•		0 - 1			•	Steel snap hook	At snap hook	11.2kg
30m	1014370	EN 360, EN1496		•		0 - 1			•	Steel snap hook	At snap hook	18.5kg
SCORPION™ EDGE TESTED												
2.7m	1016840	EN360, VG11.060			•	0 -1 -2	Screwgate	•		Snap hook	Web shock absorber	1.5kg
2.7m	1016841				•	0 -1 -2	Scaffold hook	•		Screwgate	Web shock absorber	1.75kg
2.7m	1016842				•	0 -1 -2	Scaffold hook	•		Snap hook	Web shock absorber	1.75kg

Self retracting lifeline

LENGTH	REF.	STANDARD	CABLE		WEBBING	FALL FACTOR	ANCHORAGE CONNECTION		HARNESS CONNECTION		FALL INDICATOR	WEIGHT
			Galvanised	Stainless Steel			Karabiner	Swivel	Swivel	Harness connection		
TURBOLITE™ EDGE TESTED												
2m	1033464	EN360, VG11.060, VG.062, VG.085			•	0 -1 -2	Scaffold hook	•		Aluminium twist lock	Warning label	1.4kg
2m	1033465				•	0 -1 -2	Aluminium twist lock	•		Aluminium twist lock	Warning label	1.0kg
2m	1033466				•	0 -1 -2	Scaffold hook G060	•		Aluminium twist lock	Warning label	1.2kg
2m	1033467				•	0 -1 -2					Warning label	0.7kg
TURBOLITE												
2m	1018015	EN 360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Screwgate	Web shock absorber	0.86kg
2m	1018013	EN 360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Scaffold hook	Web shock absorber	0.86kg
2m	1018014	EN 360. ANSI. OSHA			•	0 - 1 - 2	Scaffold hook	•		Screwgate	Web shock absorber	0.86kg
2m	1017900	EN 360. ANSI. OSHA			•	0 - 1 - 2	Screwgate	•		Steel snap hook	Web shock absorber	0.86kg
TWIN TURBO												
2m	1029716	EN 360. ANSI. OSHA			•		Twin turbo D-Ring			2 x Scaffold hook	Web shock absorber	2.1kg
FALCON™												
6m	1016793	EN 360			•	0-1		•				1.5kg
6m	1016794	EN 360			•	0-1	Scaffold hook	•		Screwgate		1.9kg
6m	1016795	EN 360			•	0-1	Screwgate	•		Screwgate		1.6kg
6m	1016796	EN 360			•	0-1	Screwgate	•		Snap hook		1.6kg
6m	1031140	EN 360			•	0-1	Aluminium twist lock	•		Aluminium twist lock	Warning label	1.4kg
SCORPION™												
2.8m	1008588	EN 360			•	0 - 1	Snap hook	•		Scaffold hook	Web shock absorber	2kg
2.7m	1008587	EN 360			•	0 - 1	Snap hook	•		Screwgate	Web shock absorber	2kg
2.8m	1008594	EN 360			•	0 - 1	Scaffold hook	•		Screwgate	Web shock absorber	2kg
2.7m	1008593	EN 360			•	0 - 1	Scaffold hook	•		Snap hook	Web shock absorber	2kg
2.5m	1010630	EN 360			•	0 - 1	Aluminium twist lock		•	Aluminium twist lock	Web shock absorber	2kg
AVIABLOC												
1.5m	1003059	EN 360			•	0 - 1	Screw gate karabiner			Sgk*	Web shock absorber	1.195kg
2.5m	1002871	EN 360			•	0 - 1	Screw gate karabiner			Sgk*	Web shock absorber	1.370kg
2.5m	1010893	EN 360			•	0 - 1	Snap hook			Sgk*	Web shock absorber	1.520kg
2.5m	1008332	EN 360			•	0 - 1	-			-	Web shock absorber	0.985kg
2.5m	1008331	EN 360			•	0 - 1	Screw gate karabiner			Sgk*	Web shock absorber	0.920kg
2.5m	1008330	EN 360			•	0 - 1	-			Sgk*	Web shock absorber	0.885kg

Lanyards

A lanyard is used to connect the workers harness to the anchorage point as an intermediate attachment when working at height. A connecting lanyard may be one of the 3 types: **Fall Arrest, Fall Restraint,** or **Work Positioning**.

MILLER LANYARDS FEATURES

ENERGY SHOCK ABSORBER

Featuring a built-in absorber which limits the fall arrest force in a fall situation to 6 kN.

ELASTICATED MANYARD®

Light and stretchable, it moves with the worker and reduces tripping or snagging hazards.

EDGE TESTED

Innovative technology for working on edges, features webbing with special heat and cut resistance.

Edge tested

ADJUSTABLE

Fall arrest, restraint or work positioning lanyard can be easily adjusted to the length needed to work safely and comfortably.

CONNECTORS

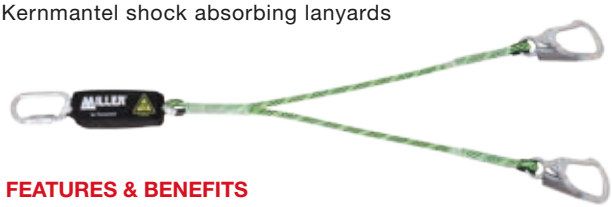
Connectors are available to attach to different anchorage points.

Edge-tested shock absorbing lanyards

Edge resistant lanyards: unique solutions to solve the technical problem posed by the breaking of fall protection equipment on edges! To prevent the risk of failure on an edge during work at height, requires a two-fold solution: fall arrest equipment has been developed with resistance to failure on edges whilst also absorbing the fall arrest forces.

MILLER EDGE-TESTED KERNMANTEL LANYARDS

Kernmantel shock absorbing lanyards



FEATURES & BENEFITS

Benefits:

- Edge tested kernmantel ropes.
- Safe work on edges.
- Abrasion resistant.
- Easy identifiable from a distance.
- Easy pre-use safety check.
- Fitting all workers needs (different length and connectors).

Features:

- Edge tested products (compliant to VG11 PPE 11.074).
- High quality kernmantel rope.
- Highly visible rope (Light green).
- Multicolor stitches assist inspection.
- Wide range of products.

Edge tested

	LENGTH			USER CONNECTOR		ANCHORAGE CONNECTOR	
SINGLE LANYARDS REFERENCE	1M	1.5M	2M	THIMBLE ONLY	KARABINER	THIMBLE ONLY	KARABINER
10 323 63*	0.8m			X		X	
10 323 64*		1.3m		X		X	
10 323 65*			1.8m	X		X	
10 323 66	X				A		A
10 323 67		X			A		A
10 323 68			X		A		A
10 323 71			X		B		B
10 323 72*	X				B		C
10 323 73*		X			B		C
10 323 74*			X		B		C
10 323 76*		X			F		H
10 323 77*			X		F		H
10 323 78*	X				F		G
10 323 79*		X			F		G
10 323 80*			X		F		G
10 323 81*	X				F		E
10 323 82*		X			F		E
10 323 83*			X		F		E
10 324 09*			X		D		D
10 324 11*			X		D		G

TWIN LANYARDS REFERENCE	1M	1.5M	2M	THIMBLE ONLY	KARABINER	THIMBLE ONLY	KARABINER
10 323 87*	X				B		C
10 323 88*		X			B		C
10 323 90*	X				F		H
10 323 91*		X			F		H
10 323 93*	X				F		G
10 323 94*		X			F		G
10 323 96*	X				F		E
10 323 97*		X			F		E
10 324 12*		X			D		G
10 324 14*		X			D		I

**: Products in stock*

Steel karabiners

10 189 60	A	Screw gate CS20	
10 189 63	B	Twist lock CS20	
10 092 49	C	Scaf hook GO55	

Aluminium karabiners

10 286 30	D	Triple action Cigale	
10 064 52	E	Snap hook	
10 083 42	F	Twist lock Zicral	
10 189 77	G	Scaf hook ML04/GO65	
10 189 72	H	Double action GO60	
10 189 76	I	Scaf hook GO100	

Edge-tested shock absorbing Manyard®

To prevent the risk of a fall, it is made of stretch webbing and comes with a variety of connectors. With a maximum of 2m length, it includes an integrated shock absorber to dissipate the forces on the body in case of a fall. Light and stretchable, Manyard® moves with you.

EDGE-TESTED STRETCHABLE SHOCK-ABSORBING LANYARDS

FEATURES & BENEFITS (same as STRETCHABLE SHOCK-ABSORBING LANYARDS)

Additional benefits:
- Mechanical properties resistant against cutting and shearing.

Additional features:
- Patented core-yarn technology.
- Identifiable green tubular webbing with a black stripe or with a black shock-absorber.
- Wrapped filament combining two types of thread: one shock absorbent and one abrasion resistant.

EDGE-TESTED SHOCK ABSORBING MANYARD®

Ref.	Length	Forked	Harness connector		Anchorage connector
10 179 16	2m	-	Aluminium Steel screwgate karabiner CS20		Scaffold hook, large opening aluminium 65mm
10 179 18	2m	-	Steel screwgate karabiner CS20		Steel screwgate karabiner CS20
10 285 20	1.5m	•	1/4 steel karabiner		Scaffold hook, large opening 55mm
10 285 21	2m	•	1/4 steel karabiner		Scaffold hook, large opening 55mm
10 285 22	2m	•	¼ Zicral Alu. Screw karabiner		Scaffold hook, large opening 65mm
10 285 23	1.5m	•	¼ Zicral Alu. Screw karabiner		Scaffold hook, large opening 65mm
10 285 24	2m	•	Aluminium screwgate karabiner CS20		GO60, large opening aluminium 60mm
10 285 25	1.5m	•	Aluminium screwgate karabiner CS20		GO60, large opening aluminium 60mm

Shock absorbing Manyard®

STRETCHABLE SHOCK-ABSORBING LANYARDS

For reduced tripping hazards

FEATURES & BENEFITS

Benefits:
- A unique stretchable design for greater freedom of movement and safety.
- When contracted, it greatly reduces the risk of tripping, snagging and dragging.
- Reliable visual inspection.
- Improved durability.

Features:
- Heavy-duty tubular outer jacket acts as a protective sleeve.
- Polyamide webbing.
- Special woven shock-absorbing inner core.
- Unique warning flag provides visual proof that a lanyard has been involved in a fall.
- The integrated red core becomes visible if the outer jacket is damaged or worn, and unfit for service.
- Hi-tech protective finish on the outer tubular jacket extends the service life of the Manyard®.
- Supplied with a pull away connection clip attaches to the harness to hold the Manyard® when not in use, thus limiting tripping risks.

Ref.	Length	Model	Connectors
10 053 24	1.5m	ME86	65mm scaffold hook and galvanised connector
10 053 25	2m	ME86	65mm scaffold hook and galvanised connector
10 053 17	1.5m	ME82	2 galvanised connectors (CS20)
10 053 18	2m	ME82	2 galvanised connectors (CS20)

Ref.	Length	Model	Connectors
10 053 26	1.5m	ME83	Snap hook and galvanised connector
10 053 27	2m	ME83	Snap hook and galvanised connector
10 304 90	1.2m	Forked Manyard®	-
10 139 70	1.5m	Forked Manyard®	65mm scaffold hooks and galvanised connector
10 134 91	2m	Forked Manyard®	65mm scaffold hooks and galvanised connector

Conforms to EN 355

Shock-absorbing lanyards

Between rope and webbing shock-absorbing lanyards, the choice is primarily one of preference since they both offer the same high level of performance. Available with a variety of attachments and designed to better meet fall protection needs. Standard : EN355

TITAN™ B - TITAN™ B1 - TITAN™ C3

TITAN™ B

TITAN™ B1

TITAN™ C3

Ref.	Length	Model	Description
10 082 75	1.8m	TITAN™ B	Rope shock-absorbing lanyard. No connectors.
10 082 76	2.0m	TITAN™ B1	Rope shock-absorbing lanyard with snap hook and screwgate karabiner.
10 082 81	2.0m	TITAN™ C3	Rope shock-absorbing lanyard with screwgate karabiner and scaffold hook (65mm opening).

ME/AMORSTOP

Rope lanyard with shock absorber

FEATURES & BENEFITS

Benefits: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments.
- Small size for reduced weight.
- Easy to handle and carry.

Features:

- Made of highly resistant and durable 12mm polyamide rope.

ME52

Model	Ref.	Length (m)	Harness Connector	Anchorage Connector
ME51	10 029 06	2	CS20	65mm aluminium Scaffold hook
ME52	10 029 07	2	CS20	CS20
AMORSTOP	10 032 16	1.5	CS20	CS20
ME53	10 045 78	2	CS20	18mm Snap hook
ME53	10 052 90	1.5	CS20	18mm Snap hook
ME54	10 045 91	2	CS20	55mm Scaffold hook
ME54	10 052 78	1.5	CS20	55mm Scaffold hook
AMORSTOP	10 032 20	1.3	None	None

Shock-absorbing lanyards

Used to ensure a permanent connection to an anchorage point at all times when climbing on and round the work place. Maintaining an anchorage connection as high as possible minimises the fall clearance, reducing the effect of a fall by stopping impact with structure. Standard:EN355.

ME00-06

Webbing lanyard with shock absorber, 1.5m to 2m.

Benefits: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments.
- Small size for reduced weight.
- Easy to handle and carry.

Features:

- Made of highly resistant and durable 23mm polyester webbing.

ME02

Model	Ref.	Length (m)	Harness Connector	Anchorage Connector
ME00	10 029 01	1.8	None	None
ME02	10 029 03	2	CS20	CS20
ME03	10 029 04	2	ML06	ML06
ME06	10 052 79	1.5	CS20	65mm Scaffold hook
ME06	10 045 79	2	CS20	65mm Scaffold hook

1.5M TO 2M WEBBING FORKED LANYARD 100% TIE-OFF

FEATURES & BENEFITS

Benefits: Permanently connected when moving

- Easily connected and removed.
- Double-legged lanyard to move around whilst being connected at all times.
- Compact, light-weight shock-absorber.

Features: Lightweight & versatile fall arrest lanyard designed for maximum protection

- Robust polyester webbing 23mm.
- Integrated polyamide shock-absorber.

Ref. Housing	Length	Connectors
10 029 02	2m	3 Screwgate karabiners (18mm opening)
10 045 90	2m	Screwgate karabiner and 2 scaff hooks (65mm opening)
10 066 75	1.5m	Screwgate karabiner and 2 scaff hooks (65mm opening)
10 032 32	1m	Screwgate karabiner + 2 GO60 (60mm)
10 051 31	1.5m	Screwgate karabiner + 2 GO60 (60mm
10 032 35	2m	Screwgate karabiner + 2 GO60 (60mm)
10 032 33	1m	¼ Twistlock karabiner + 2 scaff hooks (65mm)

Shock-absorbing lanyards

TITAN™ A2 - TITAN™ A3

TITAN™ A2

TITAN™ A3

Ref.	Length	Model	Description
10 143 30	1.5m	TITAN™ A2	Webbing shock absorbing lanyard with screwgate karabiner.
10 134 30	2m	TITAN™ A3	Webbing shock absorbing lanyard with screwgate karabiner and scaffold hook (65mm).
10 151 40	1.75m	TITAN™ A3	Webbing shock absorbing lanyard with screwgate karabiner and scaffold hook (65mm).
10 160 96	1.5m	TITAN™ A3	Webbing shock absorbing lanyard with screwgate karabiner and scaffold hook (65mm).

FORKED TITAN™ A3

Connectors: 2 scaffold hooks (65mm) and screwgate karabiner

Ref.	Length
10 134 31	2m

ATEX LANYARD

FEATURES & BENEFITS

Benefit:

- Prevents risk of electrostatic discharge igniting an explosive atmosphere.

Features:

- Energy absorber.
- 2 GO60 karabiner and 1 twist lock karabiner.
- Antistatic polyester webbing 25mm.
- Shock absorber: Polyester/Polyamide.

Ref.	Length
10 158 59	1.15m

Standard: ATEX EN 13463-1 (2001)

TIE-BACK FORKED SHOCK-ABSORBING LANYARD

Technical fall arrest lanyard

FEATURES & BENEFITS

Benefits:

- Forked lanyard for 100% tie-off: Ideal for climbing a tower or ladder.
- Shock-absorber limits fall arrest forces < 6kN.

Features:

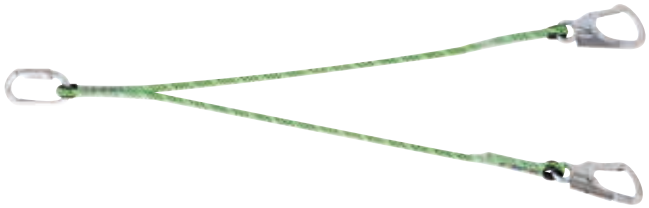
- 1.5m webbing lanyard with shock-absorber, and 4 loops.
- Multi-point attachment system so that the lanyard can be used in tie-back.
- Compact and lightweight.

Ref. Housing	Connectors
10 070 13	3 captive eye karabiners (18mm opening)
10 070 15	without connectors
10 102 06	with 2 scaff hooks 65mm

Restraint lanyards

MILLER KERNMANTEL LANYARDS

Kernmantel restraint lanyards



FEATURES & BENEFITS

Benefits:

- Ultra-resistant and new stylish kernmantel ropes.
- Abrasion resistant.
- Easily identifiable from a distance.
- Easy pre-use safety check.
- Fitting all workers needs (different lengths and connectors).

Features:

- High quality kernmantel rope.
- Highly visible rope (Light green).
- Multicolor stitches assist inspection.
- Wide range of products.

	LENGTH			USER CONNECTOR		ANCHORAGE CONNECTOR	
SINGLE LANYARDS REFERENCE	1M	1.5M	2M	THIMBLE ONLY	KARABINER	THIMBLE ONLY	KARABINER
10 323 30*	0.8m			X		X	
10 323 31*		1.3m		X		X	
10 323 32*			1.8m	X		X	
10 323 36	X				B		B
10 323 37		X			B		B
10 323 40*		X			B		C
10 323 41*			X		B		C
10 323 42	X				F		G
10 323 43		X			F		G
10 323 45*	X				F		E
10 323 46*		X			F		E
10 324 02*	X				D		G
10 324 03*	X	X			D		G
10 334 90*	X				B		H

TWIN LANYARDS REFERENCE	1M	1.5M	2M	THIMBLE ONLY	KARABINER	THIMBLE ONLY	KARABINER
10 323 51*	X				B		C
10 323 52*		X			B		C
10 323 54*	X				F		H
10 323 55*		X			F		H
10 323 57*	X				F		G
10 323 58*		X			F		G
10 323 60*	X				F		E
10 323 61*		X			F		E
10 324 06*	X				D		G
10 324 07*		X			D		G

**: Products in stock*

Steel karabiners

10 189 60	A	Screw gate CS20	
10 189 63	B	Twist lock CS20	
10 092 49	C	Scaf hook GO55	

Aluminium karabiners

10 286 30	D	Triple action Cigale	
10 064 52	E	Snap hook	
10 083 42	F	Twist lock Zicral	
10 189 77	G	Scaf hook ML04/GO65	
10 189 72	H	Double action GO60	
10 189 76	I	Scaf hook GO100	

Restraint lanyards

TITAN™

FEATURES & BENEFITS

Benefit: Lightweight

- With or without connectors.

Features: Polyamide rope - 12mm

- Available length from 1m to 1.8m.
- Spliced loop with protective plastic thimble.

Ref.	Length
10 082 70	1m
10 082 71	1.5m
10 082 72	1.8m

Conforms to EN 354

TITAN™ R14

Adjustable without connectors

Ref.	Length
10 082 73	1.8m

Conforms to EN 354

MILLER H-DESIGN® WEBBING EXTENSION

New

FEATURES

- 42 cm webbing extension for easy connection to rear D-ring*
- Removable to replace in case of damage
- Conforms to EN 354

Ref.	Name
10 328 93	webbing extension
10 328 94	webbing extension + twist-lock

**approximately 30cm length when attached with larks head knot and 52cm length when attached with twist-lock karabiner. Check the final length before use as a fall arrest or restraint system shall not exceed 2m.*

MD06

FEATURES & BENEFITS

Benefit: Lightweight extension

- With or without connectors.

Model	Ref.	Length (m)		Connector		Connector
MD06	10 309 51	0.40	Loop		2 x CS20	
Extension	10 028 88	0.30	Loop		CS20	

Conforms to EN 354

MD06

Extension

Work positioning lanyards

Used to allow hands free work, to complement a fall arrest system. The length is easily adjustable with one hand to fit around the structure and then onto the side D-rings of the harness'belt. Conforms to EN 358.

Miller HandZup®

Work positioning lanyard that leaves your hands free to work in complete safety!

FEATURES & BENEFITS

Benefits:

- Specially designed for improved handling and greater comfort during work
- Just a few seconds are sufficient to accurately adjust the lanyard to the perfect work. positioning point.
- An economical system: it is not necessary to change the entire system when only the rope is unserviceable. The rope can be replaced by a user when necessary.
- Rope that lasts double the length of time: the new polyamide braided rope is twice as resistant compared to ordinary rope.

Features:

- 2 aluminium side plates.
- ABS handle.
- Aluminium compartment.
- Stainless steel pivoting cam.
- 100% polyamide braided rope, diameter 12mm with or without protection sleeve.
- Plastic sleeve protecting rope termination.
- Optional repositionable locking screw.

PATENTED

TECHNOLOGY MILLER®

Ref.	Rope length 2 M	3 M	4 M	5 M	10 M	20 M	30 M	Karabiner at rope termination	Protective sheath	Karabiner on tensioner
10 320 97	X							B	X	A
10 320 98		X						B	X	A
10 320 99			X					B	X	A
10 321 00	X							B		A
10 321 01		X						B		A
10 321 02			X					B		A
10 322 40				X				B		A
10 321 24					X			-		-
10 321 25						X		-		-
10 321 26							X	-		-
10 321 18	X							D	X	D
10 321 19		X						D	X	D
10 321 20			X					D	X	D
10 321 21	X							D		D
10 321 22		X						D		D
10 321 23			X					D		D

A : 1/4 turn karabiner

B : Snap hook

D : Triple action oval karabiner

This new system is particularly recommended in the fields of telecommunications, transport and electricity.

Work positioning lanyards

MC03

2m to 4m

FEATURES & BENEFITS

Benefit: Ideal for those who have to work at height in a safe and supported hands-free position

- Easy to connect to the side D-rings of the harness.

Features: Easy to use

- Jaw type length adjuster for progressive one-handed adjustment.
- Ø 16mm polyamide rope.
- Connectors: galvanised steel karabiner and alloy snap hook, 18mm opening.

Ref.	Length
10 028 78	2m
10 028 79	3m
10 028 80	4m

TITAN™

Adjustable work positioning lanyard

FEATURES & BENEFITS

Benefits:

- Easy to use.
- Adjustable.

Features:

- Adjustable 12mm or 14mm polyamide rope lanyard.
- Length 1.8m to 2m.

Ref. Housing	Ø rope	Length	Connectors
10 082 85	12mm	1.80m	No connector
10 082 87	12mm	2m	Loop and twistlock karabiner
10 082 88	12mm	2m	2 twistlock karabiners
10 082 86	14mm	2m	Loop and 18mm snap hook

Lanyards technical guide

MODEL	STANDARDS	WEBBING	ROPE	SIMPLE	FORKED	0,30 M	0,40 M	1 M	1.2 M	1.5 M	1.8 M	2 M	USER CONNECTOR	ANCHORAGE CONNECTOR
SHOCK ABSORBING LANYARDS AND MANYARD®														
AMORSTOP	EN 355		•	•						1003220			None	None
AMORSTOP	EN 355		•	•						1003216			CS20	CS20
ME54	EN 355		•	•						1005278			CS20	Scaff hook 55mm
ME53	EN 355		•	•						1005290			CS20	Snap hook
ME51	EN 355		•	•								1002906	CS20	Scaff hook 65mm
ME52	EN 355		•	•								1002907	CS20	CS20
ME53	EN 355		•	•								1004578	CS20	Snap hook
ME54	EN 355		•	•								1004591	CS20	Scaff hook 55mm
ME00	EN 355	•		•							1002901		No	No
ME02	EN 355	•		•								1002903	CS20	CS20
ME03	EN 355	•		•								1002904	Triple action	Triple action
ME06	EN 355	•		•						1005279		1004579	CS20	Scaff hook 65mm
Titan™ B	EN 355		•	•							1008275		Thimbled loops	Absorber
Titan™ B1	EN 355		•	•								1008276	CS20	Snap hook
Titan™ C3	EN 355		•	•								1008281	CS20	Scaff hook 65mm
Titan™ A2	EN 355	•		•						1014330			CS20	CS20
Titan™ A3	EN 355	•		•						1016096	1015140	1013430	CS20	Scaff hook 65mm
Titan™	EN 355	•			•							1013431	CS20	2xScaff hook 65mm
Forked lanyard	EN 355	•			•			1003232					1/4 Turn	2xGO60
Forked lanyard	EN 355	•			•			1003233					1/4 Turn	2xScaff hook 65mm
Forked lanyard	EN 355	•			•					1005131			1/4 Turn	2xGO60
Forked lanyard	EN 355	•			•					1007013			1/4 Turn	Twist lock
Forked lanyard	EN 355	•			•					1007015			No	No
Forked lanyard	EN255	•			•					1010206			1/4 Turn	2xScaff hook 65mm
Forked lanyard	EN 355	•			•							1004590	CS20	2xScaff hook 65mm
Forked lanyard	EN 355	•			•					1006675			CS20	2xScaff hook 65mm
Forked lanyard	EN 355	•			•							1002902	1/4 Turn	2xCS20
Forked lanyard	EN 355	•			•							1003235	1/4 Turn	2xGO60
Atex	EN 355/ATEX	•			•					1015859			CS20	2xGO60
Kernmantel lanyards	EN355		•	•				1032363 (0,8m)		1032364 (1,3m)	1032365		Thimble only	Thimble only
Kernmantel lanyards	EN355		•	•				1032366		1032367		1032368	Screw gate CS20	Screw gate CS20
Kernmantel lanyards	EN355		•	•								1032371	Twist lock CS20	Twist lock CS20
Kernmantel lanyards	EN355		•	•				1032372		1032373		1032374	Twist lock CS20	Scaf hook GO55
Kernmantel lanyards	EN355		•	•						1032376		1032377	Twist lock Zicral	Double action GO60
Kernmantel lanyards	EN355		•	•				1032378		1032379		1032380	Twist lock Zicral	Scaf hook ML04/GO65
Kernmantel lanyards	EN355		•	•				1032381		1032382		1032383	Twist lock Zicral	Snap hook
Kernmantel lanyards	EN355		•	•								1032409	Triple action Cigale	Triple action Cigale
Kernmantel lanyards	EN355		•	•								1032411	Triple action Cigale	Scaf hook ML04/GO65
Kernmantel lanyards	EN355		•		•			1032387		1032388			Twist lock CS20	Scaf hook GO55
Kernmantel lanyards	EN355		•		•			1032390		1032391			Twist lock Zicral	Double action GO60
Kernmantel lanyards	EN355		•		•			1032393		1032394			Twist lock Zicral	Scaf hook ML04/GO65
Kernmantel lanyards	EN355		•		•			1032396		1032397			Twist lock Zicral	Snap hook
Kernmantel lanyards	EN355		•		•					1032412			Triple action Cigale	Scaf hook ML04/GO65
Kernmantel lanyards	EN355		•		•					1032414			Triple action Cigale	Scaf hook GO100

Lanyards technical guide

MODEL	STANDARDS	WEBBING	ROPE	SIMPLE	FORKED	0,30 M	0,40 M	1 M	1.2 M	1.5 M	1.8 M	2 M	USER CONNECTOR	ANCHORAGE CONNECTOR
SHOCK ABSORBING MANYARD®														
Manyard® ME86	EN 355	•		•						1005324			CS20	Scaff hook 65mm
Manyard® ME82	EN 355	•		•						1005317			CS20	CS20
Manyard® ME83	EN 355	•		•						1005326			CS20	Snap Hook
Manyard® ME86	EN 355	•		•								1005325	CS20	Scaff hook 65mm
Manyard® ME82	EN 355	•		•								1005318	CS20	CS20
Manyard® ME83	EN 355	•		•								1005327	CS20	Snap hook
Edge tested Manyard®	EN 355	•		•								1017916	CS20	Scaff hook 65mm
Edge tested Manyard®	EN 355	•		•								1017918	CS20	CS20
Twin Edge tested Manyard®	EN 355	•			•					1028520			1/4 steel karabiner	2xScaff hook 55mm
Twin Edge tested Manyard®	EN 355	•			•						1028521		1/4 steel karabiner	2xScaff hook 55mm
Twin Edge tested Manyard®	EN 355	•			•							1028522	¼ Zicral Alu. Screw karabiner	2xScaff hook 65mm
Twin Edge tested Manyard®	EN 355	•			•					1028523			¼ Zicral Alu. Screw karabiner	2xScaff hook 65mm
Twin Edge tested Manyard®	EN 355	•			•							1028524	CS20	Double action GO60
Twin Edge tested Manyard®	EN 355	•			•					1028525			CS20	Double action GO60
Twin Manyard®	EN 355	•			•				1030490					
Twin Manyard®	EN 355	•			•					1013970			CS20	2xScaff hook 65mm
Twin Manyard®	EN 355	•			•							1013491	CS20	2xScaff hook 65mm
RESTRAINT LANYARD														
Kernmantel lanyards	EN354 & 358		•	•				1032330 (0,8m)		1032331 (1,3m)	1032332		Thimble only	Thimble only
Kernmantel lanyards	EN354 & 358		•	•				1032336		1032337			Twist lock CS20	Twist lock CS20
Kernmantel lanyards	EN354 & 358		•	•						1032340		1032341	Twist lock CS20	Scaf hook GO55
Kernmantel lanyards	EN354 & 358		•	•				1032342		1032343			Twist lock Zicral	Scaf hook ML04/GO65
Kernmantel lanyards	EN354 & 358		•	•				1032345		1032346			Twist lock Zicral	Snap hook
Kernmantel lanyards	EN354 & 358		•	•				1032402		1032403			Triple action Cigale	Scaf hook ML04/GO65
Kernmantel lanyards	EN354 & 358		•		•			1032351		1032352			Twist lock CS20	Scaf hook GO55
Kernmantel lanyards	EN354 & 358		•		•			1032354		1032355			Twist lock Zicral	Double action GO60
Kernmantel lanyards	EN354 & 358		•		•			1032357		1032358			Twist lock Zicral	Scaf hook ML04/GO65
Kernmantel lanyards	EN354 & 358		•		•			1032360		1032361			Twist lock Zicral	Snap hook
Kernmantel lanyards	EN354 & 358		•		•			1032406		1032407			Triple action Cigale	Scaf hook ML04/GO65
Kernmantel lanyards	EN354 & 358			•				1033490					Twist lock CS20	Double action GO60
Titan™	EN 354		•	•				1008270					Thimbled loops	Thimbled loops
Titan™	EN 354		•	•						1008271			Thimbled loops	Thimbled loops
Titan™	EN 354		•	•							1008273		Thimbled loops	Thimbled loops
Titan™	EN 354		•	•							1008272		Thimbled loops	Thimbled loops
MD06	EN 354	•			•		1030951						CS20	Loop
Extension	EN 354					1002888							CS20	Loop
Miller H-Design® Webbing extension	EN354	•		•			1032894						Twist lock CS20	loop
Miller H-Design® Webbing extension	EN354	•		•			1032893						loop	loop
WORK POSITIONING LANYARD														
Miller HandZup®	**See more details on page 360**													
Titan™	EN 358		•	•							1008285		No	No
MC03	EN 358		•	•								1002878	Spliced loops	Snap hook
MC03	EN 358		•	•								1002879 (3m)	Spliced loops	Snap hook
MC03	EN 358		•	•								1002880 (4m)	Spliced loops	Snap hook
Titan™	EN 358		•	•								1008286	Spliced loops	Snap hook
Titan™	EN 358		•	•								1008287	Spliced loops	Twist lock
Titan™	EN 358		•	•								1008288	CS20	CS20

Rope Fall Arresters

Light, industry-proven, stainless steel automatic or manual fall arresters, rope grabs prevent workers from falling during ascent or descent for both vertical and horizontal applications. Particularly useful on sloping roofs where retractable lifelines may react too slowly. In the event of a fall or slip, they lock onto the rope, arresting the fall immediately.

STICK RUN

Rope grab for vertical, horizontal and sloping applications

FEATURES & BENEFITS

Benefits:
- Easy to use.
- Automatic mode for vertical use.
- Manual mode for work positioning in horizontal and sloping use.
- Stick run glides freely over the line without manual intervention.

Features:
- Rope grab in stainless steel.
- Suitable for 10/12mm or 14/16mm rope.
- Automatic locking for vertical use.
- Weight: 0.62kg.
- Manual locking position for horizontal work and restraint purposes, repositioning manually along rope.

MF51

MF52

Stick Run is sold without a rope

Ref.	Model	For Ø rope	Extension
10 076 40	MF51	Kernmantel 10.5 mm	-
10 028 75	MF51	Polyamide 14 mm	-
10 076 18	MF52	Kernmantel 10.5 mm	0.3m lanyard and connector (CS20)
10 028 76	MF52	Polyamide 14 mm	

Conforms to EN 353-2. Recommended for use with Miller ropes only (see page 365)

ALTOCHUT

Rope grab for vertical use

FEATURES & BENEFITS

Benefits:
- Prevents workers from falling during ascent or descent.
- Glides freely along the rope without manual intervention.
- Offers a more comfortable attachment to the front anchorage point on the harness.

Features:
- Rope grab in stainless steel.
- Suitable for 10/12mm or 14/16mm ropes.
- Weight: 0.5kg.

Altochut is sold without a rope

Ref.	For Ø rope
10 029 33	Kernmantel 10.5 mm
10 029 37	Polyamide 14 mm

Altochut is sold without a rope

Ref.	For Ø rope	Extension
10 030 64	Kernmantel 10.5 mm	0.3m lanyard and connector (CS20)
10 030 71	Polyamide 14 mm	

Conforms to EN 353-2. Recommended for use with Miller ropes only (see page 365).

Rope Fall Arresters

ANCHORAGE LINE

Suitable for vertical, horizontal and sloping applications.

FEATURES & BENEFITS

Benefit:

- Can be installed by means of the telescopic pole and anchorage connector.

Features:

- Twisted polyamide rope or kernmantel rope.
- Supplied with galvanised connector and counterweight.
- Anchorage line is suitable for use with a 10/12mm or 14mm/16mm rope grab.
- Available in various lengths.

Length	Twisted **polyamide** rope, diam. 14mm and screwgate karabiner	Twisted **polyamide** rope, diam. 12mm and screwgate karabiner	**Kernmantel** rope, diam. 10.5mm and screwgate karabiner	**Kernmantel** rope, diam. 11mm	**Kernmantel** rope, diam. 11mm, black	**Nylon** rope, diam.12mm with 2 stitched splices
with counterweight	x	x	x			
10m	10 028 91	10 113 44	10 076 13			
15m			10 031 74			
20m	10 028 92	10 113 45	10 076 14			
25m						10 117 26
30m	10 028 93	10 113 46	10 076 15			
35m						10 117 23
40m	10 028 94		10 076 16			
45m						10 117 24
50m	10 028 95		10 076 17	10 101 85		
60m			10 031 72			
100m					10 101 87	
200m				10 101 82		

ROCKER ROPE LOCK

Automatic rope grab features work positioning function

FEATURES & BENEFITS

Benefits:

- Fall arrester and work positioning device.
- Versatile and lightweight fall arrest system.
- Designed for use in conjunction with a manual descender or technical rope access or rescue
- Compact and easy-to-use.
- Locking catch can be activated to hold the Rocker in position on the rope.

Features:

- Easy-to-use automatic rope grab (EN 353-2).
- Manual rope positioning (EN 353-2).
- Length adjuster for positioning lanyard.
- Tensioning device for horizontal lifeline.
- Pulley blocking device.
- Suitable for 10/12mm rope.
- Weight: 0.17kg.

Rocker is sold without a rope

Ref.	Colour
10 070 31	Purple
10 102 21	Black

CE certified Rope grab: EN 353-2; Work positioning EN 358 recommended for use with Miller Kernmantel rope only.

TITAN™ ROPE GRAB

Rope grab for both vertical and horizontal applications.
Automatic Rope grab with anchorage line from 10m to 30m.

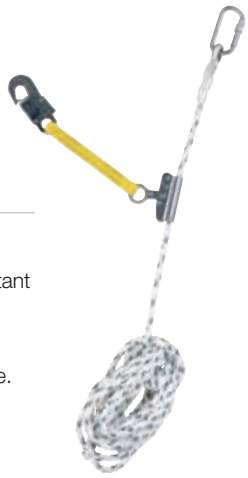
FEATURES & BENEFITS

Benefits:

- Automatically locks onto the rope in the event of a fall.
- Moves on the rope without manual intervention.
- 0.3m lanyard and connector facilitates attachment to harness.
- Easy-to-use design with hands-free operation for maximum freedom of movement.

Features:

- Durable and corrosion-resistant stainless steel construction.
- Lightweight.
- Includes rope anchorage line.
- Diameter 12mm



Ref.	Length	Description
10 111 90	10m	Rope grab
10 117 00	15m	Rope grab
10 111 91	20m	Rope grab
10 111 92	30m	Rope grab

CE Certified and conforms to EN 353-2

Connectors

SCREW GATE KARABINERS

CS20

- Material: Aluminium.
- Opening: 30mm.
- Resistance: 25kN.
- Dim.:104 x 58mm.
- Weight: 165g.
- Multi-purpose karabiner.

Ref
10 043 00/A

Conforms to Standard: EN 362 Class B

CS20 ALU

- Material: Aluminium.
- Opening: 17mm.
- Resistance: 23kN.
- Dim.: 111 x 60mm.
- Weight: 80g.
- Multi-purpose karabiner.

Ref
10 092 76

Conforms to Standard: EN 362 Class B

ML01

- Material: Aluminium.
- Opening: 19mm.
- Resistance: 30kN.
- Dim.: 110 x 65mm.
- Weight: 90g.
- Pear-shaped for easier belay.

Ref
10 028 33

Conforms to Standard: EN 362 Class B

ML06

- Material: Aluminium.
- Opening: 21mm.
- Resistance: 22 kN.
- Dim.:123 x 72mm.
- Weight: 93g.
- Multi-purpose karabiner.

Ref
10 189 61

Conforms to Standard: EN 362 Class B

TWIST LOCK KARABINERS

CS20

- Material: Steel.
- Opening: 18mm.
- Resistance: 25kN.
- Dim.: 104 x 58mm.
- Weight: 172g.

Ref
10 189 63

Conforms to Standard: EN 362 Class B

ZICRAL

- Material: Aluminium.
- Opening: 16mm.
- Resistance: 28kN.
- Dim.: 107 x 61mm.
- Weight: 75g.
- Shape facilitates belay technique.

Ref
10 189 68

Conforms to Standard: EN 362 Class B

ZICRAL 2

- Material: Aluminium.
- Opening: 18mm.
- Resistance: 23kN.
- Dim.: 111 x 60mm.
- Weight: 90g.

Ref
10 083 42

Conforms to Standard: EN 362 Class B

SUPER-TOP

- Material: Aluminium.
- Opening: 21mm.
- Resistance: 22kN.
- Dim.: 123 x 70mm.
- Weight: 90g.

Ref
10 189 69

Conforms to Standard: EN 362 Class A/T

Connectors

DOUBLE ACTION KARABINERS AND HOOKS

GO30

- Material: Aluminium.
- Opening: 28mm.
- Resistance: 25kN.
- Dim.: 159 x 74mm.
- Weight: 130g.

Ref
10 043 00/A

Conforms to Standard: EN 362 Class T

GO60

- Material: Aluminium.
- Opening: 60mm.
- Resistance: 23kN.
- Dim.: 240 x 113mm.
- Weight: 244g.
- Self-locking opening and rope latch.

Ref
10 189 72

Conforms to Standard: EN 362 Class A

SNAP HOOK

- Material: Steel.
- Opening: 18mm.
- Resistance: 25kN.
- Dim.: 132 x 64mm.
- Weight: 240g.

Ref
10 189 73

Conforms to Standard: EN 362 Class T

GO55

- Material: Steel.
- Opening: 55mm.
- Resistance: 23kN.
- Dim.: 218 x 115mm.
- Weight: 450g.

Ref
10 092 49

Conforms to Standard: EN 362 Class A

GO85

- Material: Steel.
- Opening: 85mm.
- Resistance: 23kN.
- Dim.: 332 x 160mm.
- Weight: 840g.

Ref
10 092 58

Conforms to Standard: EN 362 Class A

GO100

- Material: Aluminium.
- Opening: 110mm.
- Resistance: 27kN.
- Dim.: 350 x 165mm.
- Weight: 900g.

Ref
10 189 76

Conforms to Standard: EN 362 Class A

ML04

- Material: Aluminium.
- Opening: 65 mm.
- Resistance: 22kN.
- Dim.: 255 x 120 mm.
- Weight: 470g.

Ref
10 189 77

Conforms to Standard: EN 362 Class A

TRIPLE ACTION KARABINERS

FRELON

- Material: Aluminium.
- Opening: 22mm.
- Resistance: 22kN.
- Dim.:117 x 77mm.
- Weight: 100g.
- Pear-shaped for easier belay.
- Wide opening for several ropes.

Ref
10 189 71

Conforms to Standard: EN 362 Class B

CIGALE

- Material: Aluminium.
- Opening: 20mm.
- Resistance: 24kN.
- Dim.: 110 x 64mm.
- Weight: 80g.
- Aluminium metal D-ring. Round thread for easier insertion into the connecting parts.

Ref
10 286 30

Conforms to Standard: EN 362 Class B

Anchorage Points

One of the most important aspects of a fall protection system, is the selection of a reliable anchorage point (A) to ensure full safety. This shall:

- have a static resistance.
- be located at a safe distance above any lower obstacles.
- be as vertical as possible to the work station to avoid the swing effect.

WEBBING ANCHORAGE SLING

Allows a reliable connection point which adapts to a wide range of anchorage points.

FEATURES & BENEFITS

Benefits:

- Easy to install.
- Lightweight.
- Reliable.
- High breaking strength.
- Sheathed end of sling to resist abrasion from connector.

Features:

- 23mm yellow polyester webbing.
- Breaking strength: > 10kN.
- Colour coded to differentiate lengths.

Ref.	Length
10 029 16	0.6m
10 029 17	0.8m

Ref.	Length
10 032 45	1.0m
10 029 18	1.2m
10 029 19	1.5m

Conforms to EN795b:1996

TITAN™

Webbing anchorage sling.

FEATURES & BENEFITS

Benefits: The anchorage sling provides a secure anchorage point for the fall arrest device

- High breaking strength.
- Lightweight.
- Safe and easy-to-install anchorage point.

Features:

- 20mm red and black polyamide webbing.
- Breaking strength: > 10kN.

Ref.	Length
10 083 60	0.6m
10 083 61	0.8m

Ref.	Length
10 083 62	1.0m
10 083 63	1.2m
10 083 64	1.5m

Conforms to EN795b:1996 & EN566

Anchorage Points

MJ51 STEEL SLING

FEATURES & BENEFITS

Benefits:
- Easy-to-install
- Large opening for anchorage to girders, beams.
- High breaking strength.

Features:
- 6.3mm galvanised steel with protective plastic sheath.
- Breaking strength: >15kN.

Ref.	Length
10 178 22	0.66m
10 028 97	1m
10 031 78	2m
10 031 79	3m

Conforms to EN 795b

GIRDER GRIP MJ52

FEATURES & BENEFITS

Benefit: Easy to use and open
- Lightweight.

Features: Stainless steel
- 75mm to 140mm opening cable girder grip.
- Breaking strength >30kN.

Ref.	Ø
10 189 79	75mm
10 189 80	100mm
10 189 81	140mm

Conforms to EN 362 Class A

ANCHORAGE PLATE

FEATURES & BENEFITS

Benefit:
- Fall indicator allows the device to be checked easily.

Features: Stainless steel
- Fixing point diameter: Ø 13mm.
- Maximum load before deformation: 300kN.
- Weight: 0,062kg.
- Breaking strength: >20kN.

Ref.
10 029 96

Conforms to EN 795 Class A1

BEAM GLIDE

FEATURES & BENEFITS

Benefits:
- Fully adjustable beam anchorage device.
- Suitable for beam widths from 75mm to 360mm.

Features:
- Aluminium construction.
- Breaking strength: 22kN.
- Weight: 1.4kg.

Ref.	Size
10 070 66	Unique

Conforms to EN 795b

Anchorage Points

CROCHEVIT JIRAF

FEATURES & BENEFITS

Benefits: Allows an anchor point to be installed far overhead

- Large opening aluminium connector.
- Used in conjunction with a telescopic pole.

Features:

- Aluminium connector.
- Opening 150mm.
- Weight 1.3kg

Ref.
10 028 99

Conforms to EN 795 Class B

CROCHEVIT, JIRAF TO BE USED WITH:
TELESCOPIC POLE
FROM 6 TO 9.40M SEE NEXT PAGE

GO100 JIRAF

FEATURES & BENEFITS

Benefits: Easy-to-fit anchorage connector for use with telescopic pole

- Opening to suit scaffolding tubes.
- Used in conjunction with a telescopic pole.

Features:

- Aluminium connector.
- Opening: 110mm.
- Weight 1.48kg

Ref.
10 029 81

Conforms to EN 795 Class B

GO65 JIRAF

FEATURES & BENEFITS

Benefits: Easy-to-fit anchorage connector for use with telescopic pole

- Opening to suit scaffolding tubes.
- Used in conjunction with a telescopic pole.

Features:

- Aluminium connector.
- Opening: 65mm.
- Weight 1.05kg

Ref.
10 029 00

Conforms to EN 795 Class B

CROCHEVIT – MJ50

FEATURES & BENEFITS

Benefits: Easy-to-install

- Large opening ideal for anchorage to girders, beams.
- High breaking strength.

Features:

- Aluminium connector.
- Opening: Ø 150mm (or 120 x 120mmsquare structure).
- Weight 1.32kg
- Breaking strength: >22kN.

Ref.
10 028 96

Conforms to EN 795b Class B

Anchorage Points

SERPENT TEMPORARY HORIZONTAL LIFELINE

The durable solution for construction

FEATURES & BENEFITS

Benefits:
- Offers a large working area.
- Fast and easy to install.
- For use by one or 2 workers.
- Maximum working length 20 metres.
- Fixing to either permanent anchorage points or temporary webbing anchorage slings.

Features:
- Durable braided rope with two galvanised connectors.
- Supplied with length adjuster, karabiners, end stop and two 1.5m webbing anchorage slings.
- Rope in polyester Ø14mm.
- Connectors in galvanised steel.

Ref.	Size
10 076 10	20m

Conforms to EN795b

WEBBING MOBILE LIFELINE WITH ANCHORAGE SLING

Webbing Temporary Horizontal Lifeline

FEATURES & BENEFITS

Benefits:
- Offers a large working area.
- Fast and easy to install.
- For use by one or 2 workers.
- Maximum working length 20 metres.
- Fixing to either permanent anchorage points or temporary webbing anchorage slings.

Features:
- Durable polyester webbing with 35 mm.
- Length adjuster.
- Delivered in a bag.

Ref.	Size
10 111 60	20m

Conforms to EN795b

TELESCOPIC POLE

Fixing an anchorage point from a distance

TELESCOPIC POLE TO BE USED WITH: CROCHEVIT, MJ50, JIRAF

FEATURES & BENEFITS

Benefits: Light-weight
- Compact for easy transportation.
- Easy vertical deployment.

Features MK00:
- 3 elements for easier deployment from the ground.
- Retracted length: 2.6m.

Ref.	Extended Length
10 028 98	7.5m

Conforms to EN795b

Features JIRAF:
- 5 elements for easier deployment from the ground.

Ref.	Extended Length	Retracted Length
10 066 29	6m	1.55m
10 029 79	9.40m	2.44m

Honeywell MILLER

Anchorage Points

SÖLL ANCHORAGES Ⓐ

Screw-fix eyes with EN 795-A* and EN50308 certification

FEATURES & BENEFITS

Benefits:
- Easy to install* in threaded holes or with self-locking nuts.
- Rated for two persons or 22kN.

Features: Load-indicating eyes
- High-visibility EN50308 yellow colour.
- Corrosion-resistant stainless steel.
- Swivel anchorage eye with a unique S-shaped profile.
- Safely deforms under excessive load, giving a clear indication of the need for replacement after a fall.

Ref.	Description
10 304 91	Söll Eye Anchor
10 315 84	Söll Turn Eye

Ref.	Description
10 315 81	Söll Anchorage Eye

** EN 795-A anchorages shall be installed by a competent engineer in accordance with approved national standards, and inspected at least once every 12 months (6 months if used for work positioning or suspension).*

Ref.: 10 304 91

Ref.: 10 315 84

Ref.: 10 315 81

DURAHOIST™ TOTEM ANCHORAGE POST

Securing access and maintenance work with low space clearance.
Designed to provide a safe anchorage point.

FEATURES & BENEFITS

Benefits: Work safely in factor 1
- Removable post.
- Light and very easy to transport with 2 handles.
- Easy to set up in the base plate.
- Insertion indicator – red mark to ensure correct installation.
- Fall factor 1 anchorage point at shoulder level, reduces fall clearance.

Features: Lightweight and resistant
- Aluminium post.
- "S" anchorage with fall indicator deformed in case of a fall.
- 2 operators maximum on each S – up to 4 operators.
- Light: only 7.5kg.

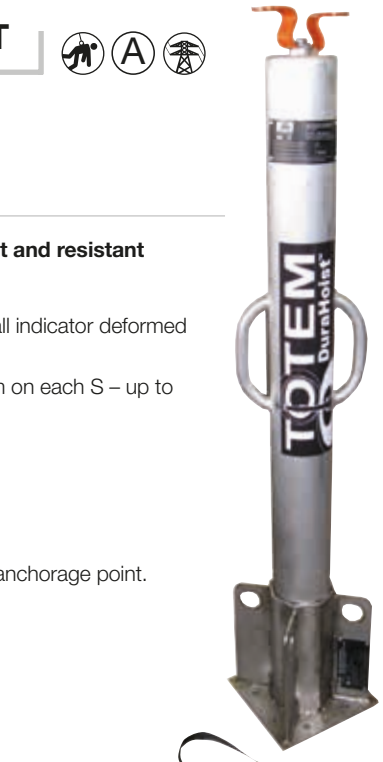
Stainless steel base plate
- 4 anchorage points on the base plate and 2 operators maximum on each anchorage point.
- Screwed with welded threaded rod.
- Weight: 13kg.

Ref.	Description
10 295 02	Aluminium Post

Conforms to EN795 class A-1, when used with the plate

Ref.	Description
10 295 03	Stainless steel base plate
10 297 20	Accessory, Totem transportation bag

Conforms to EN795 class A-1



Rescue & Evacuation
Technical access: ASCENDER

ROPE ASCENDER

FEATURES & BENEFITS

Benefits:
- Ascenders are designed to connect easily onto the rope with one hand.
- Comfortable and efficient grip for improved climbing control.

Features:
- Ideally used in conjunction with a foot-loop.
- The manual ascender incorporate a lightweight alloy handle.
- Enables the operator to ascend a fixed rope.
- For rope diameters 10-13mm.
- Weight 0.21kg.

Ref.	Description
10 070 41	Right-hand ascender
10 073 93	Left hand ascender

Conforms to EN 567

CAM-CLEAN ASCENDER

FEATURES & BENEFITS

Benefits: Increase safety
- Used in conjunction with the rope ascender.
- Chest ascender designed to hold the operator in a comfortable upright position.

Features:
- Rope diameter: 8mm to 12mm.
- Anti return system.
- Weight: 0.16kg.

Ref.	Size
10 042 54	Unique

Conforms to EN 567

SHORCO SLING AND FOOT LOOP SET

FEATURES & BENEFITS

Benefits: Foot lock technique to climb
- Used in conjunction with the Rope Ascender and Cam-Clean.
- Shorco Sling and Foot loop set allows a fixed rope to be climbed by using the Foot Lock Technique.

Feature:
- Polyester webbing with karabiners.

Ref.	Size
10 101 68	Unique

ABS LOCK

FEATURES & BENEFITS

Benefit: Practical
- Used to belay from the ground the person equipping a structure with temporary anchor points.

Features:
- Automatic and dynamic belay system.
- To use with 9mm to 11mm rope.
- Weight: 0.103kg.

Ref.	Size
10 042 10	Unique

Rescue & Evacuation – Technical access: descender

INDY DESCENDER

FEATURES & BENEFITS

Benefits: The operator's safety is guaranteed

- Ergonomic and easy-to-use.
- Descent is activated and controlled through pressure onto the handle.
- Descent stops if the pressure on the handle is too weak or strong.

Features: Aluminium & stainless steel

- Anti-panic auto-braking system.
- Maximum descent speed: 2m/s.
- Suitable for Miller 10-13mm rope (see page 365).
- Weight: 0.49kg.
- Lowering of max. 2 people.
- Upwards sliding is possible.

Ref.	Size
10 320 22	unique

Conforms to EN 341 Class A and EN12841/C

PROALLP TECH DESCENDER

FEATURES & BENEFITS

Benefit: Control and versatility

- Ideal for technical access, rescue and intervention.

Features: Screw and autolock controlled rate rope descender

- Light alloy material.
- Designed to hold up to two people (max.250kg) in a rescue scenario.
- Option of both screw and auto-lock controlled-rate rope descent.
- Includes ascender, belay brake, tensioned line brake and hauling system brake function.
- Suitable for Miller 10-13mm kernmantel rope (see page 365).
- Weight: 0.62kg.

Ref.	Colour
10 070 57	Purple
10 102 22	Black

Conforms to PR EN 12841C

FIG 8 DESCENDER

FEATURES & BENEFITS

Benefit:

- Lightweight

Features:

- Aluminium.
- Rescue descender for 9-12mm braided rope.
- Weight: 0.13kg.

Ref.	Size
10 102 20	Unique

Rescue & Evacuation – Descent devices

MILLER SAFESCAPE® ELITE

Rescue and Descent device for emergency situations. Ideal for rescue and descent - up to 500m.

FEATURES & BENEFITS

Benefits:

- Enhanced safety in the harshest conditions.
- Greater cost-savings: recertification required only after seven years.
- Lightweight and compact design.
- Optional hoisting wheel and/or ladder bracket available.
- Global solution-meets all applicable safety standards worldwide.

References on demand, depending on the rope length.

Please contact your customer service for more information

=> without handwheel.

=> with handwheel.

=> with handwheel and handle.

=> with handwheel and ladder bracket.

Material:

- High-quality anodised aluminium housing.
- Centrifugal brake controls the descent and reduces vibration.
- Descent loads possible from 30kg – 250kg (2 people).
- Rope length 20-200 m as standard descent capacity (up to 500 m on request).
- Descent is quick (1m/s) and smooth.
- Use in an emergency by 2 people weighing up to 250kg.

Conforms to EN 341:2011 and meets ANSI and OSHA requirements

MILLER SAFESCAPE® ELITE CASE

Exceptional storage solution for the Miller SafEscape® ELITE.

FEATURES & BENEFITS

Benefits:

- Rescue equipment can be safely stored for up to ten years without the need for costly inspection. Components must be inspected every ten years allowing a lower cost and inspection down time.
- Vibration tested and easy to inspect.
- Humidity check using a hygrometer, which is visible externally.
- Robust and durable.
- Backpack easy to carry and ideal for evacuation and rescue operations.

Features:

- Two reflective strips 38 x 30.3 cm making it easier to locate in the dark.
- Polypropylene case with protection rating IP67 (watertight and dustproof).
- Lock: ABS.
- Moisture indicator 30/40/50 .
- Temperature range: -40 °C to 99 °C.
- Dual-compartment bag.

Miller SafEscape® Elite kit customisation:
The contents of each kit can be customised to meet specific customers' needs, contact the Techniserv department (see p.387).

Conforms to EN 341:2011 (the case and its contents have been tested according to EN60068) and meets ANSI and OSHA requirements.

Humidity checker

Feature	Peli 1600 case	Peli 1610 case	Peli 1620
Internal dimensions	54.4 x 41.9 x 20 cm	55 x 42.2 x 26.8 cm	56 x 43.2 x 32 cm
External dimensions	61.6 x 49.3 x 22 cm	62.7 x 49.7 x 30.3 cm	63 x 49.2 x 35.2 cm
Lid depth	4.4 cm	5.2 cm	5.2 cm
Depth of base	15.5 cm	21.6 cm	26.8 cm
Internal volume	45.6 dm^3	45.6 dm^3	77.41 dm^3
Weight (empty case)	5.9 kg	9.07 kg	11.33 kg
Suitcase colour	Orange	Black	Black
Possible rope length	Up to 80 m	Up to 120 m	> 120 m

Rescue & Evacuation

Training is an essential part of any rescue and evacuation operation and Miller offers a complete set of rescue training courses to suit all areas of industry and the emergency services. Miller offers set or tailor-made courses, including theory and practice. Training sessions can be provided worldwide in our training centers or on site. Miller provides a complete solution for rescue and evacuation.

RESCUE CARRYING BAG

FEATURES & BENEFITS

Benefit:
- Carry the Miller SafEscape elite, rope and accessories.

Features:
- Waterproof.

Ref.	Size	Ø	Height
10 101 91	M	23cm	59cm
10 101 90	L	26cm	69cm
10 293 40	XL	48cm	69cm

Contact us to arrange rescue training on your site.

MILLER SAFESCAPE® ELITE EVACUATION KIT

Descent kit for emergency

FEATURES & BENEFITS

Benefit:
- All in one bag.

Features:
- Includes a Miller SafEscape ELITE with wheel and handle, fitted with 20 m rope.
- Anchorage sling.
- Waterproof bag.

Ref.	Length
10 293 50	20 m

MILLER SAFESCAPE® ELITE RESCUE KIT

General rescue kit with 80m rope

FEATURES & BENEFITS

Benefit:
- All in one rescue kit.

Features:
- 1 Miller SafEscape ELITE with handwheel and Ladder adapter, fitted with 80m rope.
- 1 Red rescue carrying bag.
- 2 Slings of 1.2m.
- 1 Rope grab.
- 4 Karabiners.
- 1 Pulley.
- 1 Edge protection.
- 1 T-Bar.

Ref.	Length
10 288 11	80m

QUADPOD*

FEATURES & BENEFITS

Mobile anchorage point.

Benefits: Ideal for cliff top rescue and confined spaces
- Stability even on rough terrain.
- Durability even in harsh environments thanks to its design.

Ref.
10 070 27

Conforms to EN 795 Class B

Features: Multi-positioning
- Removable and adjustable legs, each extend from 1.35m to 2.30m.
- Pivoting rubber studded feet.
- High grade corrosion resistant aluminium.
- Safe working load: 500kg.
- Weight 12.5kg.
- Supplied with carrying bag.

* Recommended to use in conjunction with Self tailing winch.

Rescue & Evacuation

SELF TAILING WINCH

FEATURES & BENEFITS

Benefits:

- Highly efficient, two speed rope winch for use in conjunction with Quadpod.
- Self-tailing winch keeps both hands free to turn the handle.

Features:

- Power Rib system grips the rope for greater safety.
- At 500kg the grip will start to creep preventing overload.
- Designed for use with 11mm kernmantel rope.
- Weight: 5.45kg

Ref.
10 070 29

SINGLE SWIVEL CHEEK PULLEY

FEATURES & BENEFITS

Benefits:

- Highly efficient single or dual-attachment swing sided pulley for pulley systems and hauling.
- Oil-lite bearings with smooth free-running performance under heavy loads.

Features:

- Aluminium construction.
- Suitable for ropes up to 12.7mm diameter.
- Tensile strength 3000 kg.
- Lightweight alloy: 0.12kg.

Ref.	Description	Colour
10 070 38	Single attachment	Dark blue
10 102 24	Dual attachment	Purple

TWIN ALLOY RESCUE PULLEY

FEATURES & BENEFITS

Benefits: High efficiency dual attachment pulley

- Double swivel.
- Oil-lite bearings with free-running performance under heavy loads.

Features:

- Dual attachment double swivel cheek pulley for pulley systems and hauling.
- Suitable for ropes up to 12.7mm.
- Tensile strength 3000 kg.
- Lightweight alloy: 0.28kg.

Ref.	Description
10 070 40	Dual attachment

TELESCOPIC REACH POLE

FEATURES & BENEFITS

Benefit:

- Used to remotely attach the rescue line to the fallen climbers harness.

Features:

- Karabiner is held in an opened position.
- Fiberglass telescoping pole which collapses to 0.8m.
- Length 3.45m.

Ref.
10 178 24

RESCUE ROPE GRAB

FEATURES & BENEFITS

Benefit:

- Attaches to the 'live' rope end and connects to lanyards or ropes to lift the fallen worker.

Feature:

- Suitable for 10/12mm ropes.

Ref.
10 288 07

EDGE PROTECTION

FEATURES & BENEFITS

Benefit:

- Prevents the rope being cut against a sharp edge when lifting or lowering a person.

Feature:

- Stainless steel.

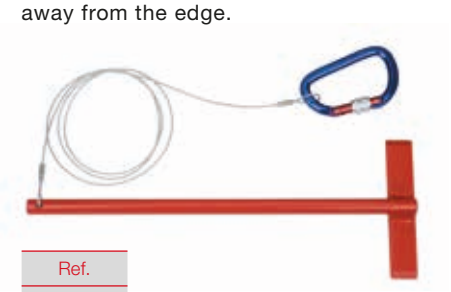
Ref.
10 288 08

Rescue & Evacuation

T-BAR

FEATURES & BENEFITS

Used specifically to raise the rope away from the edge.



Ref.
10 288 09

RESCUE TRIANGLE

FEATURES & BENEFITS

Benefit:

- Rescue triangle is fully adjustable for adults and children

Features:

- Compact and lightweight.
- Suitable for short-duration rescue and evacuation operations of an uninjured casualty.
- Designed to hold the casualty in a sitting position for comfort.
- Weight: 1.164kg

Ref.
10 048 76

Conforms to EN 1498B

EMERGENCY RESCUE SLING

FEATURES & BENEFITS

Benefits:

- Used by many leading rescue services around the world.
- Enhances comfort for the casualty.

Ref.
10 070 63

Conforms to EN1498

Features: Multi-positioning

- Comfortable and easy-to-use rescue sling is based on a helicopter sling.
- Chest strap can be undone and fitted around the casualty while remaining attached to rescue system.
- Adjustable leg straps allow any angle of casualty lift.
- 9mm cell foam padding on the chest strap.
- 2 additional attachment rings regulate the size for smaller casualties.
- Weight: 1.9kg

EVAC BODY SPLINT KIT

FEATURES & BENEFITS

Benefits: Lightweight body splint ideal for confined space evacuation

- Once wrapped around a casualty, it provides a rigid splint.
- Can be used vertically and horizontally.

Features:

- Polypropylene stretcher bed.
- Fitted with foot supports.
- Can be stored in a compact bag and is easy to transport.
- Padded shoulder straps provide extra support and protection for the casualty.

Ref.	Description
10 317 86	**Evac body splint kit includes :**
10 302 85	Spider straps
10 070 46	Evac body splint
10 323 20	Yellow transport and storage bag

Confined Space

TRIPOD

FEATURES & BENEFITS

Benefit: Easily installed by one person

Features: Self-locking and adjustable

- Aluminium tripod.
- Fully adjustable legs lock securely in place thanks to the automatic pins.
- Two anchorage points.
- Supplied with one pulley.
- Weight: 15kg.
- Dimensions: Fully extended: height: 2.1m/leg span: 1.5m.
- Height: 2.1m
- Fully retracted dimension: height: 1.4m – width: 0.4m.
- Breaking strength: > 10 KN.
- Maximum safe working load: 136kg.

Ref.
10 050 41

Conforms to EN 795 (b)

MN20 MANHANDLER® WORK WINCH

FEATURES & BENEFITS

Benefits:

- Compact and robust.
- Both a rescue and material winch.
- Manhandler® is easy to operate.

Features:

- Brake holding – friction disk.
- Housing in steel, yellow chromate plating.
- Mechanical efficiency 5:1.
- Overspeed braking system and load indicator.
- Integrated bracket for tripod.
- Swivel snap hook.
- Maximum charge: 150kg.

Ref.	Length	Description
10 050 42	20m	Lifeline material: galvanised steel cable
10 050 44	20m	Lifeline material: stainless steel cable

Conforms to EN 1496

Confined Space

MIGHTEVAC® RESCUE/ RETRIEVAL HOIST

Combines the superior performance and reliability for emergency evacuation
15m to 40m - Cable self-retracting lifeline with emergency retrieval winch

FEATURES & BENEFITS

Benefits: Heavy duty performance

- Easy-to-use.
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system.

Features:

- 4.8mm galvanised or stainless steel cable.
- Quick-activating retrieval winch mechanism.
- Pressed steel housing and compact design.
- Rescue winch (up/down), gear ratio 5:1.
- Corrosion-resistant stainless steel/ aluminum components.
- Convenient, heavy-duty carrying handle.
- Integrated fall indicator.

Ref.	Length	Description
10 051 49	15m	Lifeline material: Galvanised steel
10 051 60	30m	Lifeline material: Galvanised steel
10 051 61	40m	Lifeline material: Galvanised steel
10 143 90	15m	Lifeline material: Stainless steel
10 143 70	30m	Lifeline material: Stainless steel
10 053 30	15m	Brackets for MightEvac®
10 053 31	30m & 40m	Brackets for MightEvac®

Conforms to EN 360 and EN 1496

MILLER PULLEY*

FEATURES & BENEFITS

Benefit: Flat and swing sided with large diameter roller that promotes excellent efficiency

Feature:

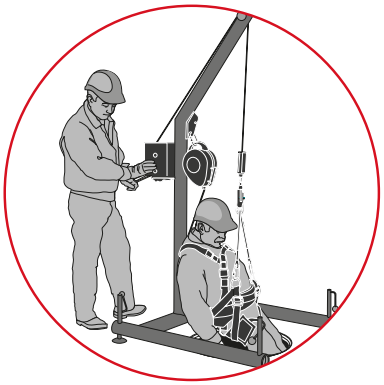
- Stainless steel pulley.

Ref.
10 114 71

*included with MN10 Tripod

POTEX

Portable pivoting davit column



FEATURES & BENEFITS

Benefits: Easy access to confined spaces

- Mounting plates: Portable davit arm is available with a wide selection of base mountings - to suit temporary/semi-permanent mobile working environments.

Material: Pivoting uni-hoist system

- Integrated rescue winch 30m.
- Adjustable legs to fit most confined space entry.

Ref.
10 029 20

Conforms to EN 795(b)

Fall arrest kits

All in one! 6 Ready-to-use kits dedicated to construction and general industry including the new range of innovative H-shaped harnesses “Miller H-Design®”

MILLER H-DESIGN® UNIVERSAL KITS

New

FEATURES & BENEFITS

A lightweight and comfortable solution to work safely in low fall clearance situations

Universal kit with 2 point harness	Universal kit with 1 point harness
Miller H-Design® harness: 2 sternal loops and dorsal attachment, automatic buckles, DuraFlex webbing, size 2 (ref. 1032872)	Miller H-Design® harness: dorsal attachment, automatic buckles, DuraFlex webbing, size 2 (ref. 1032860)
Miller TurboLite twistlock karabiner + scaffhook 65mm (ref. 1018013)	
Sling 1.2m (ref. 1008363)	
Miller black backpack (ref. 1007067)	

Ref. **10 334 42**

Ref. **10 337 76**

MILLER H-DESIGN® ROOFING KIT

New

FEATURES & BENEFITS

A lightweight and comfortable solution to work safely and freely on roofs

Roofing kit
Miller H-Design® harness: 2 sternal loops and dorsal attachment, DuraFlex webbing, automatic buckles, size 2 (ref. 1032872)
Rope grab with Ø12mm rope, 15m (ref. 1011700)
Plastic case (ref. 1002864)

Ref. **10 337 77**

Fall arrest kits

MILLER H-DESIGN® BACKPACK KITS

New

FEATURES & BENEFITS

A lightweight and comfortable solution to work safely by reducing the risk of tripping hazard

Backpack kit with 2 point harness	Backpack kit with 1 point harness
Miller H-Design® harness: 2 sternal loops and dorsal attachment, mating buckles, DuraFlex webbing, size 2 (ref. 1032864)	Miller H-Design® harness: dorsal attachment, mating buckles, DuraFlex webbing, size 2 (ref. 1032856)
Miller Manyard 2m with scaffhook (ref. 1005325)	
Miller black backpack (ref. 1007067)	

Ref. **10 338 71**

Ref. **10 338 70**

MILLER H-DESIGN® SCAFFOLDING KIT

New

FEATURES & BENEFITS

A lightweight and comfortable solution to work safely, especially in case of risk of falling over an edge

Scaffolding kit
Miller H-Design® harness: 2 sternal loops and dorsal attachment, DuraFlex webbing, automatic buckles, size 2 (ref. 1032872)
Twin edge-tested kernmantel lanyard 1.5m + 2 GO55 (ref. 1032388)
Miller black backpack (ref. 1007067)

Ref. **10 337 78**

Fall arrest kits

TITAN™ ROOFERS KIT

Ⓑ Ⓒ

FEATURES & BENEFITS

Benefit:

- Suitable for use on sloping roofs where retractable lifelines may react too slowly.

Features:

- TITAN™ 2 point harness with rear and front anchorage (front webbing loops).
- Automatic rope grab with 10m-anchorage line and 30cm attachment lanyard.

Ref.
10 118 95

TITAN™ FALL ARREST KIT

Ⓑ Ⓒ

FEATURES & BENEFITS

Benefit:

- Cost effective kit for fall protection.

Features:

- TITAN™ 1 point harness with rear anchorage.
- 2m shock-absorbing lanyard with 2 screwgate karabiners.

Ref.
10 118 96

TITAN PACKAGING

TITAN™ FALL RESTRAINT KIT

Ⓑ Ⓒ

FEATURES & BENEFITS

Benefit:

- The ideal restraint solution.

Features:

- TITAN™ 1 point harness with rear anchorage.
- 2m restraint lanyard with 2 screwgate karabiners.

Ref.
10 118 97

Fall arrest kits

TITAN™ CONSTRUCTION KIT

Ⓑ Ⓒ

FEATURES & BENEFITS

Benefits:

- Lightweight fall protection kit.
- Quick activating braking system stops a fall within centimetres.

Features:

- TITAN™ 1 point harness with rear anchorage.
- TITAN™ Aviabloc 2.5m self retracting webbing lifeline with 2 screwgate karabiners.

Ref.
10 118 98

TITAN PACKAGING

TITAN™ WORK POSITIONING KIT

Ⓑ Ⓒ

FEATURES & BENEFITS

Benefit:

- Allow hands free position.

Features:

- 2 point TITAN™ harness with work positioning belt, front and rear anchorage (front webbing loops).
- TITAN™ Aviabloc 2.5m self retracting webbing lifeline with 2 screwgate karabiners.
- Adjustable work positioning lanyard with 2 screwgate karabiners.

Ref.
10 118 99

CASUALTY PULLEY SYSTEM

Ⓐ Ⓒ

FEATURES & BENEFITS

Benefits: Easy to install for quick and safe rescue

- Lightweight system enables the rescuer to clip the casualty to his own line and lift them to transfer either onto his system or onto a stretcher.

Features:

- Pulleys, ascender and karabiners fit into a strong carrying bag.
- Maximum length: 2m.
- Weight: 1.2kg.

Ref.
10 070 42

INDY SELF RESCUE KITS

Ⓐ Ⓒ

FEATURES & BENEFITS

Benefits: Suitable for use by one-person only

- Ready-to-use evacuation kit.

Features:

- INDY descender – maximum descent speed 2m/s.
- 20m rope with karabiner.
- Anchorage sling.
- Convenient, waterproof storage bag.

Ref.
10 060 26

Conforms to EN 341 and EN 12841/C

ACCESSORIES

TOOL BANDIT™

BENEFITS & FEATURES

Benefits: Prevent tools from dropping that can cause serious injuries on the worksite

- Can be fixed to the worker's belt or wrist.
- Designed to secure the tool whilst still allowing freedom of movement.

Features:

- Lanyard with karabiner and wrist fixing system.
- Maximum load: 2.5kg.

Ref.	Description
11 002 10	Display box with 12 Bandit™ Lanyard Tool holders
10 145 91 one each	Tool Bandit™
10 124 91	Bulk bag of 36 Wrist Bandit™ tool holders

MILLER RELIEF™ STEP

BENEFITS & FEATURES

Benefits: Alleviate the effects of suspension trauma

- The Relief™ Step can be attached to any harness brand.
- Easily deployed for a short term solution to the worker's safety and comfort.

Feature:

- Easy to deploy webbing.

Ref.	Description
11 002 11	Display box of 12 pairs
10 315 70 one pair	Miller Relief™ Step

COWSTAIL SLING

BENEFITS & FEATURES

Benefits: Reliable connecting device with reinforced loops at end

- Lightweight.

Features: Dyneema 15mm

- Used to attach a variety of ancillary devices.
- Sling with reinforced loops at each end.
- Suitable for connecting different devices within an access or rescue system.

Ref.	Length
10 070 59	30cm
10 070 58	60cm

Conforms to EN 354 and EN 566

EDGE ROLLER

BENEFITS & FEATURES

Benefit: Designed to protect the rope when used on abrasive edges

Features:

- Highly durable stainless steel shaft and brass bearings.
- 50mm wide roller allows the simultaneous use of 3 ropes.

Ref.
10 070 43

CLIMBERS HELMET

BENEFITS & FEATURES

Benefit: Protects from impacts from above and side

Features:

- Polypropylene climbers helmet with fully adjustable cotton lining and good air circulation reduces the build up of moisture.
- Comfortable skull webbing and chin strap.
- Fitted with attachment point for head torch.

Ref.	Colour	Weight
10 070 48	Red	410g

Conforms to EN 397 and EN 50365

CLIMBERS HELMET

New

BENEFITS & FEATURES

Benefits:

- Protects from impacts from above and side.
- Firm and comfortable fit.

Features :

- Short-peak (20mm) helmet with 4-point nylon skull webbing and forehead comfort band
- 4-point quick-release chin strap and 3-level height adjustment.
- Internal card holder for identification or medical informationt.

Ref.	Colour	Weight
10 309 40	White	330 g

Conforms to EN 397 and EN 50365

Accessories

ROPE PROTECTOR

FEATURES & BENEFITS

Benefit: Designed to protect the rope against abrasion and cutting eg. on buildings or construction site

Features:
- PVC reinforced rope protector.
- Easy-to-fit with velcro seam.

Ref.
10 102 14

PLASTIC BOX

FEATURES & BENEFITS

FEATURES: Plastic storage box

Dimensions: 800x400x300mm.

Ref.
10 044 71

INDUSTRIAL CLIMBERS SEAT

FEATURES & BENEFITS

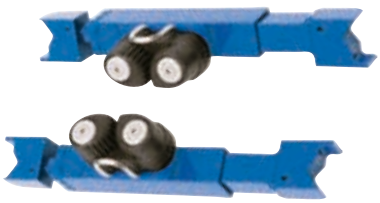
Benefit: Seat offers a comfortable supported position for the operator

⚠ Use in conjunction with a suitable safety harness.

Features:
- Padded seat with waterproof, abrasionresistant PVC coated nylon covering.
- Supplied with two connectors.
- Adjustable straps for perfect fit.
- Complete with convenient attachment points for accessories.

Ref.
10 070 56

KIT BLOCK



FEATURES & BENEFITS

Benefits: Secures foot of a ladder to prevent slipping
- Avoid all risks of fall over or slipping.
- Fix safely the ladder.

Features:
- Kit including 2 fixing blocks and a 8m rope.

Ref.
10 029 97

MILLER BLACK BACKPACK

New

Ref.
10 070 67

SPORT BAG

BENEFITS & FEATURES

Features:
- Polyester with central zip fastener.
- 2 large carrying handles and shoulder strap.
- Dimensions: 590x270x270mm.
- Weight: 0.740kg.

Ref.
10 028 65

PERSONAL PROTECTIVE EQUIPMENT BAG

BENEFITS & FEATURES

Features:
- 3 outside pockets.
- 2 large carrying handles and 1 shoulder strap.
- Dimensions: 500 x 330 x 250mm.
- Weight: 0.938kg.

Ref.
10 044 54

BACK PACK

BENEFITS & FEATURES

Benefit: Large capacity

Features:
- Heavy duty blue PVC Back Pack.
- Shoulder straps.
- Quick connect buckles.

Ref.	Capacity	Height
10 044 43	30l	410mm
10 044 44	60l	650mm

MILLER SERVICES

MILLER TECHNICAL SERVICE/ TECHNISERV

Miller Technical Service provides personal one-on-one assistance for your Fall protection questions. Staffed with experienced professionals, they are ready to immediately respond to your telephone call with the answers you need to safely operate your business.

OUR TECHNICAL EXPERTISE IS AT YOUR SERVICE FOR ANY QUESTIONS REGARDING:

- Recommendations on products linked to a specific application or sector
- Any technical request on our Miller product specification
- After sales management – inspection & return
- Specific product requests
- Product certifications & standards
- Requests on instruction sheets – technical sheets

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SYSTEM CUSTOMER SERVICE
For technical questions and orders of permanent anchorage systems:

Northern and Central Europe, Italy
Phone: +49 (0) 9281 8302 0
Email: scs-hof@honeywell.com

France, Spain, Portugal, North Africa
Phone: +33 (0)2 48 53 08 97
Email: lignedevie.hsp@honeywell.com

MILLER FALL PROTECTION TRAINING

LEGISLATION REQUIREMENT

Training is an essential part of any safety program. The employer is responsible for ensuring that any person working at height is fully informed regarding the correct use of PPE and systems.

FUNDAMENTAL FALL PREVENTION/ PROTECTION TRAINING

The legislation states that a fall arrest system must be used when working at a height where a fall hazard exists. This system consists of:
- Anchorage point/anchorage connector
- Body wear – full body harness
- Intermediate attachment.

TOTAL TRAINING SOLUTIONS

Miller Training Programs are considered to be a central part of their global fall protection offer, and provide awareness, knowledge and the skills necessary to ensure safety on the worksite to suit all areas of industry and the emergency services. Taught by field-experienced, professional instructors, the training sessions include live demonstrations and hands-on training, while addressing site-specific variables and performance requirements of fall prevention and protection.

In addition, Miller Training offers a comprehensive list of height safety courses conducted at a customer's facility or at the Miller Innovative Technology & Training Centres:

- Construction: Steel Erectors, Scaffolding and Roofing
- Telecommunications
- Electricity
- Wind Energy: simulator
- Oil & Gas
- Rope Access
- Confined Space
- Cleaning
- Ski Lifts
- Maintenance
- Rescue and Evacuation

MILLER SERVICE CENTRES:

- **inspection**
- **repair**
- **maintenance**

Miller® offers to the users of its products a service to inspect, repair and maintain devices locally, quickly.
Miller service points are trained then certified by technicians, store necessary spare parts for a repair and maintenance of Miller equipment according to maintenance guide.

Contact your closest centre for an answer adapted to your request.

For further information on our range of Industrial Fall Protection training courses, please contact your local Honeywell Sales office or Fall Protection Representative to customise your personalised training courses.

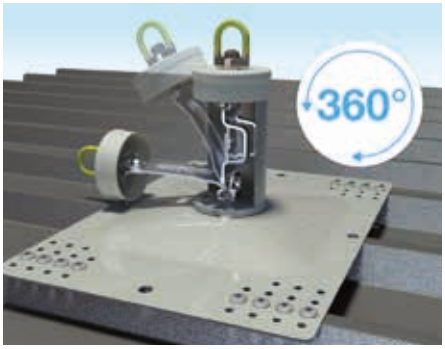
Permanent Fall Arrest Systems

SÖLL FUSION® ROOF ANCHOR POST

Söll Fusion® single anchorage point absorbs energy and keeps forces close to the roof surface. The single anchorage point is tested for connecting up to 2 people while maintaining loads on the structure below 10kN.

360° protection : In the event of a fall, the Söll Fusion® Roof Anchor Post bends in the direction of the force, the built-in, energy-absorbing component activates and the base remains securely attached to the roof surface.

Söll Fusion® Roof Anchor Post conforms to EN795 Class A.



SÖLL SHOCKFUSION® HORIZONTAL LIFELINE SYSTEM

Designed for light weight industrial and commercial roof applications.

The Söll ShockFusion® horizontal lifeline (HLL) system reduces fall distance (minimised line deflection) while effectively managing system forces to maintain a safe connection to a variety of roof structures. The unique surface-mounted design eliminates the need to penetrate the roof structure, making installation quick and easy while reducing labour costs.

- **Unique engineered Söll ShockFusion® design :**
  - Successfully tested for spans up to 20 m
  - Designed for up to 6 users (with max. 4 users within the same span)
  - Guarantees loads on the roofing structure < 10 kN
- **Increased mobility and safety for working at height :**
  - End and corner posts effectively manage system forces without tipping over through a built-in energy absorbing component
  - Resulting in minimized line deflection (reduced possible fall distance)
    > Allows installation at a nearer proximity to the roof edge
    > Easier rescue provided in case of a fall
- **Durable design for long-lasting, reliable installation**
- **Time-efficient and cost-effective installation**
- **Maintains a safe connection to a variety of roof structures :** membrane, standing seam, trapezoidal metal sheeting, concrete

Söll ShockFusion® HLL system conforms to EN795 Class C.

Söll ShockFusion and Söll Xenon are available

SÖLL XENON® 2.0 HORIZONTAL LIFELINE SYSTEM

Designed for industrial applications (crane runways, loading bays...) and roofing.

FEATURES & BENEFITS

- Conforms to EN 795:2012 standard
- Guarantees structural integrity and protects up to seven workers
- The unique multi-functional shock absorber prevents damage to a variety of structures
- The standard and overhead shuttle have excellent sliding performance

PATENTED

FORCE-DISPERSAL TECHNOLOGY MILLER®

EN 795:2012 COMPLIANT

The Söll Xenon 2.0 Horizontal Lifeline System is an innovative height safety solution that conforms to new EN 795:2012 standards and regulations*. It's a high quality, durable system made of corrosion resistant stainless steel and is ideally suited to industrial applications like working on crane runways, loading bays and roofs. The system also doubles as an anchorage point to easily rescue workers should they fall. If a fall occurs, this effective system ensures structural damage is prevented.

The Lifeline System incorporates a unique, state-of-the-art shock absorber, which uses patented Miller 'Force-dispersal Technology' to provide fall protection for up to seven workers across a maximum span of 20m (1X19 cable, 8mm wide), depending on the line configuration.

The new Söll Xenon energy absorber functions as a four-in-one device: a tension indicator, a cable tensioner, an energy absorber and a fall indicator. Only one energy absorber is necessary for all installations, irrespective of whether it's an overhead or standard installation (on posts or against walls).

A new Söll Xenon overhead shuttle completes the system allowing for heavy usage with self retractable lifelines up to 20kg.

Compliance and testing

The Söll Xenon 2.0 Horizontal Lifeline System complies with EN 795:2012, the latest European standard for anchor devices*.

- To demonstrate that the system would prevent structural damage following a fall as well as provide anchorage to rescue workers, it successfully passed a dynamic strength and integrity test with a mass of 100kg, plus a further 200kg for three minutes.

- To prove how effective the Miller 'Force-dispersal Technology' would perform if up to seven workers fell consecutively the system was put through a 'multiple fall' test. A test mass of 200kg (representing two workers) was initially dropped followed by five more masses weighing 100kg each (representing five workers). To test for structural integrity, an extra 650kg was added to the load for three minutes.

Standard shuttle

Overhead shuttle

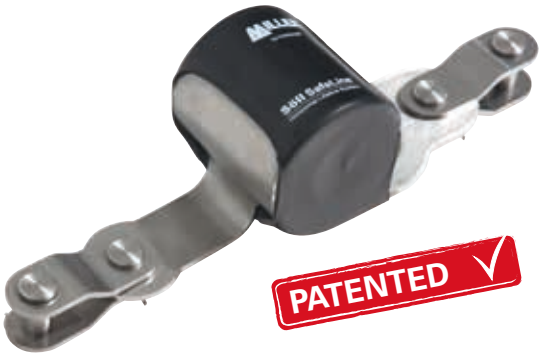
*System also complies with the requirements of OSHA, ANSI and AS/NZS

for Miller trained professional installers only.

Permanent Fall Arrest Systems

SÖLL SAFELINE® 2.0 HORIZONTAL LIFELINE SYSTEM

Designed for rigid roof applications.



FEATURES & BENEFITS

- Exceptional shock absorber guarantees structural integrity for roofing applications following EN 795:2012 standard
- An easy to install system with few components that protects up to three workers
- System doubles as anchorage to rescue fallen workers

The Söll SafeLine 2.0 Horizontal Lifeline System is an easy to install anchorage device, ideal for roofing applications. The system consists of a limited number of components that need no specific tooling.

The Söll SafeLine 2.0 Horizontal Lifeline System conforms to new EN 795:2012 standards and regulations. It's a high quality, durable system made of corrosion resistant stainless steel and is ideally suited to roof installations. The system also doubles as an anchorage point to easily rescue workers should they fall. If a fall occurs, this effective system prevents structural damage.

The Lifeline System incorporates a unique, state-of-the-art shock absorber, which uses Miller patented 'Force-dispersal Technology' to provide fall protection for up to three workers across a maximum span of 15m, depending on the characteristics of the lifeline.

EASY TO INSTALL SHOCK ABSORBER WITH EXCEPTIONAL PERFORMANCE

The Söll SafeLine absorber can be easily and rapidly fixed with the axles and pins provided. The black shrink tube around the shock absorber is UV-resistant.

The shock absorber has been designed to disperse energy during a fall to protect both workers and the roof structure. Its patented 'Force-dispersal Technology' ensures that energy is distributed evenly when the shock absorber is deployed.

Söll SafeLine can only be installed by qualified installers who have undergone appropriate training.

EASY TO ORDER KIT WITH INSTALLATION ESSENTIALS

Söll Safeline is proposed as a kit containing the new shock absorber, a tensioner with integrated tension indicator, cable end clamps and an identity plate. Additionally to these essential components, only intermediate parts and the correct cable length need to be ordered.

SÖLL VI-GO - VERTICAL STEEL CABLE FALL PROTECTION SYSTEM

Söll Vi-Go is a fall protection system that can be retrofitted onto existing climbing devices such as ladders or rungs used in wind turbine, power supply, telecommunication or other industry.

It is basically made up of a steel rope or cable (three different types), fastening elements and a guidedtype fall arrester.

Safety for all users

Each fall arrester is equipped with a shock absorbing element made of stainless steel which is unique to Miller by Honeywell.

System Customer Service for technical

SÖLL GLIDELOC® VERTICAL RAIL SYSTEM

Söll GlideLoc is a safe vertical climbing system permanently installed on buildings, towers, masts and several other structures.

Söll GlideLoc systems are available as ladders as well as guide rails and conform to EN353-1. They allow a combination of vertical and horizontal access without having to disconnect. Söll GlideLoc ladders have an integrated rail for the guided-type fall arrester in the centre. They are available in aluminium, galvanised steel and stainless steel. Guide rails can also be retrofitted to existing ladders.

ROBUST FOR MORE SAFETY

- Strong rigid metal structure.
- The ladder can be used to fix a rescue device.
- The state-of-the-art Söll BodyControl fall arresters certified according to EN353-1:2014 provide greater safety through quick arrest in all fall situations, both backwards and downwards.

ROBUST FOR IMPROVED COST OF OWNERSHIP

- The rigid rail system withstands constant wear and incidental shock loads (vs. cable systems).
- The yearly inspection is easy and quick with only a few checkpoints.
- Thanks to the quality of the components, only limited repairs or replacement of parts necessary.
- The lifespan is unlimited as long as the system passes the yearly inspection.

FLEXIBILITY

- Wide range of mounting brackets allow installation on most structures.
- Customised brackets can be supplied on demand.
- There is no height limit for installation of rails on the tallest buildings, masts or towers.

CLIMBING COMFORT

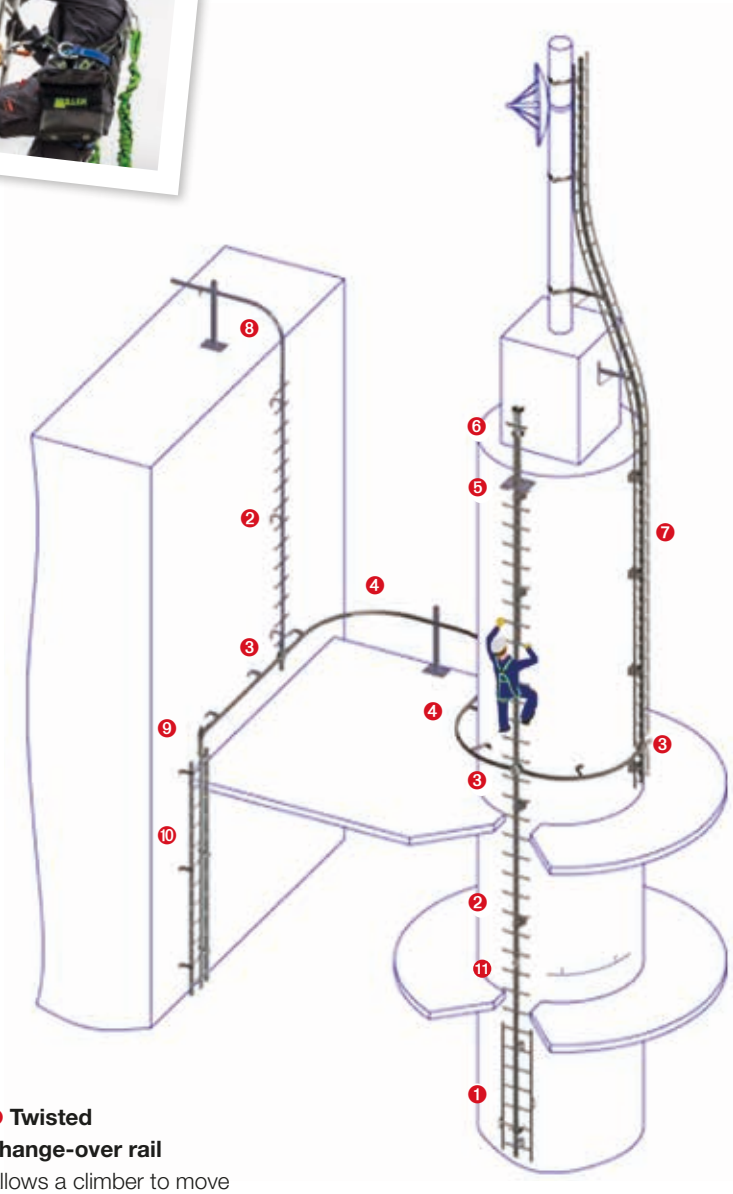
- The absence of intermediate brackets allow fall arresters to slide smoothly along the rails.
- Söll BodyControl fall arresters are designed for comfortable climbing with or without leaning backwards.

questions and orders, see page 387.

Permanent Fall Arrest Systems

SÖLL GLIDELOC® INNOVATIVE SYSTEM DESIGNS

New



❶ Söll PivotLoc ladder
Söll PivotLoc is a foldable ladder system with incorporated GlideLoc fall protection rail. In the closed position, the rungs pivot together behind the central guide rail.

❷ Y-Spar
Cost-effective alternative. The low surface area keeps wind loads applied to the sub-structure to a minimum.

❸ Turntable
Allows safe continuous transfer from ladders to horizontal rail and vice versa without disconnecting.

❹ Horizontal guide rail
Available both straight and curved, which allows safe access along narrow platforms.

❺ Folding footrests
Must be provided as rest platforms at regular distances in case of high ascent routes for added safety.

❻ Rotary exit section
Climbers can safely access and leave the top of the guide rail while standing on the upper platform.

❼ Twin ladder
The operator can glide his hands along the side spars when ascending without having to hold onto the rungs. Ideal for dirty surroundings. Offers high distortion resistance.

❽ Twisted change-over rail
Allows a climber to move safely onto a roof or a platform away from the edge of the roof before disconnecting from the system.

❾ Ho-ver turn table
Simple means of changing direction from the end of a vertical rail to a horizontal rail and vice versa.

❿ Vertical guide rail
Can be assembled on existing ladders, step irons etc.

⓫ Exit section
A climber can detach the fall arrester from the rail after ascending and insert it into the rail before descending.

Permanent Fall Arrest Systems

SÖLL® BODYCONTROL FALL ARRESTERS

New

WATCH THE PRODUCT VIDEO

A new generation of guided-type fall arresters designed for comfortable climbing, providing more safety in all fall situations through quick arrest. Söll BodyControl shuttles are compliant with the latest standard EN353-1:2014

HIGHEST SAFETY STANDARD

- 2 independent fall arrest functionalities activate for both back and downward fall situations.
- Quick arrest: <140mm.
- Ultra-quick arrest in case the rail has mounting holes: <70mm thanks to the additional safety nose.
- Visual fall indicator.
- Pictograms on the shuttles to ensure correct use.

BROAD APPLICABILITY

- Certified for workers: 40 – 140 kg.
- Works with inclined ladders & rails: -10° to +15°.

COMFORT

- Suspended axle mechanism (for wheels) ensures the smooth running of the device in all circumstances (including when passing joints) reducing worker fatigue.
- Ergonomic 'big and easy-to-grip' karabiner, which is easy to handle with gloves.

ROBUSTNESS AND DURABILITY

- Bigger and more robust polymer wheels: lifetime twice as long as conventional wheels.
- New shuttle housing design covers 80% of shock absorber to protect it from impacts and reduce the need for maintenance.
- Trilock karabiner can withstand « 30kN » and gate « 16kN ».

NAME	PART NUMBER	ORDER REFERENCE	BODY	SAFETY CATCH	KARABINER
Söll BodyControl I	27441	10 339 80	Aluminium	Stainless steel	Aluminium
Söll BodyControl II	27440	10 339 81			
Söll Comfort²	23331	10 276 40	Stainless steel		Stainless steel
Söll Universal II	25805	10 292 49			Aluminium

Other shuttles available for use on Söll GlideLoc rails

Söll BodyControl I

The sternal attachment designed for comfortable climbing close to the ladder provides more safety in all fall situations through quick arrest. It's the ideal solution for confined spaces, manholes, caged ladders.

Söll BodyControl I

Söll BodyControl II

The ventral attachment makes climbing more comfortable because it allows leaning backwards.
The sternal strap ensures safety in all fall situations, including backwards.

Söll BodyControl II

1 ***Correct rail insert direction***

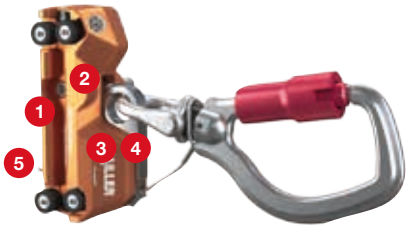
2 ***Ventral connection*** *(to EN 361 certified attachment point on harness)*

3 ***Activated fall indicator***

4 ***Non-activated fall indicator***

5 ***Safety nose for ultra-quick arrest***

6 ***Sternal connection***



Söll BodyControl I = sternal attachment

Söll BodyControl II = sternal + ventral attachment
(EN 361 certified attachment points on harness)

Permanent Fall Arrest Systems

SÖLL MULTIRAIL®

Stainless steel and aluminium Horizontal Rail System

FEATURES & BENEFITS

- New state-of-the-art aluminium rail system
- Quick and easy installation with great fixation distances up to 6m
- Guarantees protection for up to 6 users
- Conforms to EN 795:2012 type D standard

The Söll MultiRail Horizontal Rail System conforms to the latest European standard **EN 795:2012** type D and CEN/TS 16415:2013 regulations for horizontal anchor devices.

This rail offers the highest level of fall protection to people along the entire fall risk area. Söll MultiRail is not only for installation at foot level or overhead but can also be installed sideways for use as a handrail.

The high quality **stainless steel** product line resistant in the toughest environmental conditions has been extended with an **aluminium** system to provide the best price-quality solution for low-corrosive work environments. Söll MultiRail offers an adapted solution for any industrial building or wind energy turbine. The elegant design of the aluminium solution makes it an aesthetic safety solution for commercial and historical buildings. Various fixation possibilities are available for different structures. Just a few bolts and tools are required for a **quick and easy assembly** of the rail system.

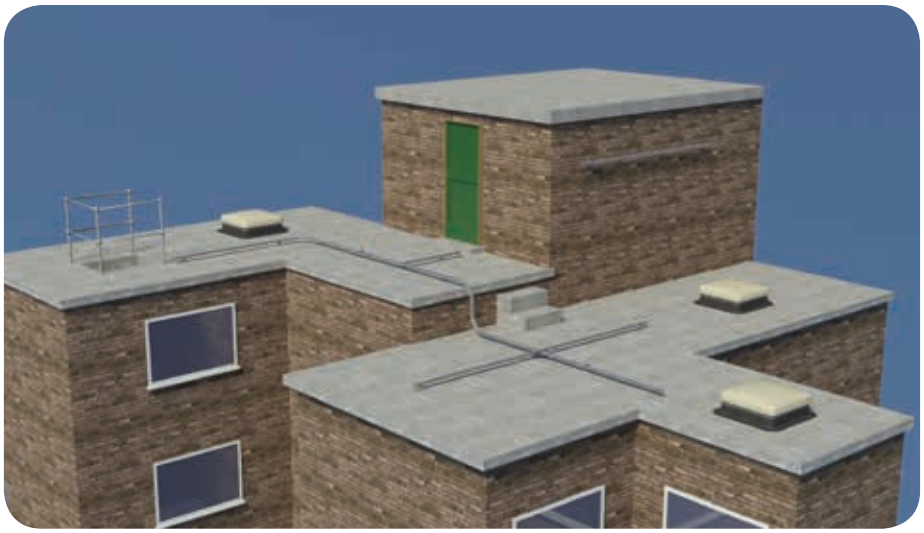
Söll MultiRail provides fall protection for up to 6 workers across a maximum span of 6m, depending on the rail configuration. If a fall occurs, this effective system ensures that structural damage is prevented through energy absorption by the several intermediate brackets and the end-fixing devices.

Four different runners ensure smooth movement of the worker along the rail: closed runner for frequent use of the same rail, openable runner for flexible use on several rail systems, wheeled runner for overhead applications and a lockable runner for working situations where the shuttle should not move.

EN 795:2012
COMPLIANT

Robust rail system that is quick and easy to install

In case of a fall, the energy is reduced by the bending of the rail, thereby the structure remains protected. The low friction mounting brackets transmit in the event of a fall the absolute minimum impact to the structure. In conformity with the EN795:2012 standard, the rail can absorb forces up to 70 kg without permanent deformation. The rail is not fixed into mounting brackets and therefore compensates for thermal expansion. Easy connection of curves, T- and X-junctions allow the system to be easily customized to any structure.



Permanent Fall Arrest Systems

SÖLL MULTIRAIL® MOBILE ANCHOR POINTS :

CLOSED RUNNER

Available in stainless steel with polyamide inlays to minimize friction and provide great gliding performance, it is fitted with a stainless steel connector. As wheels are not necessary, it is dirt-resistant as well as very light, only 400g. It can be removed from the system at the end-stop exit sections or remain permanently on the rail. The closed runner is designed for Söll MultiRail systems with defined entry and exit points.

OPENABLE RUNNER

Available in stainless steel with polyamide inlays to minimize friction and provide great gliding performance, it is fitted with a stainless steel connector.

As wheels are not necessary, it is dirt-resistant as well as very light, only 600g. By means of an easy to use opening and closing mechanism, it can be removed or attached anywhere along the rail offering more flexibility to the user during his work. The openable runner is proposed for companies with high frequency of use on several Söll MultiRail systems or where the systems do not have defined entry and exit points.

OVERHEAD RUNNER

Made from stainless steel with 4 load-bearing wheels and a swiveling stainless steel eye, the wheeled runner may only be used for overhead applications. The runner can pass horizontal curves. It can be used with a self retractable lifeline. The worker attached to the lifeline can cover a wide working zone.

LOCKABLE RUNNER

Made from stainless steel with an additional bolt to lock, this runner is ideal for use on rails attached to objects in motion such as those installed on trucks. The runner stays in place when the truck is driven.

Safety footwear

Shoes designed for your safety that meets the requirements of your activity

Safety footwear

Protection, comfort, well-being and durability

Across its footwear brands, Honeywell Industrial Safety has developed a culture of innovation and expertise, to offer footwear with high added value that meets the requirements of a job, a specific environment or a geographical region.

Our products combine advanced technology, comfort and ergonomics to satisfy the needs of all our customers.

The knowledge and understanding of our partners' expectations ensure that we develop quality footwear that is durable and reliable, to provide functional, comfortable and attractive protection.

European Standards and Sizes p 399

HONEYWELL:

- Cocoon p. 400
- Temptation® City p. 404
- Oil & Gas - Energy p. 407
- Executive p. 409
- Athletic p. 413
- Bacou Original p. 417
- Bacou Outdoor p. 431
- Bac'Run® PUN p. 434
- Nit'Lite® p. 436
- White range p. 439
- Stitched and cemented ranges p. 442
- Fire Fighters p. 445
- Accessories p. 447

OTTER® by Honeywell:

- Otter® Active p. 449
- Premium Protect p. 453
- Premium Sport p. 457
- Premium MFUS® p. 459
- Premium Cordura® Fabric p. 461
- Premium SympaTex® p. 463
- New Basics Sport p. 465
- New Basics Comfort p. 467
- New Basics Black Line p. 468
- Otter feminin p. 469
- Specific Overcap p. 470
- Specific Winter p. 471
- Specific Nitril p. 471
- Specific White p. 472

MANY YEARS OF EXPERIENCE IN SAFETY FOOTWEAR

FOCUS ON WELL-BEING

Being an expert in safety footwear means caring about the customer's well-being, finding the balance between excellent protection and real comfort. Honeywell Industrial Safety offers a wide range of comfortable footwear inspired by the latest fashion trends and technological developments.

TECHNOLOGY & INNOVATION

Our footwear ranges benefit from the latest results of Honeywell and Otter research and developement: non metallic toecaps, flexible and light weight shoes, slip resistant outsoles, technical textiles, modular insole system, ESD etc…

RIGOUR & QUALITY

The Honeywell development expertise is combined with rigour and quality. All manufacturing is managed by a certified ISO 9001 quality assurance system. From the design of the footwear to the aftersales service, all tests are carried out to meet the latest EN Standard compliance.

FOR TECHNICAL QUESTIONS AND ORDERS ABOUT OTTER FOOTWEAR, PLEASE CONTACT OTTER CUSTOMER SERVICE :

OTTER SCHUTZ GMBH
Xantener Straße 6
D-45479 Mülheim an der Ruhr
Germany
Phone: +49 (0)208 / 452-0
Fax: +49 (0)208 / 452-185
Email : info@otter-schutz.de
www.otter-schutz.de

European standards

EN ISO 20345

Category	EN ISO 20345 requirements:
SB	**Basic requirements** for shoes: toecap resistant to an impact of 200 Joules and crushing of 15kN
S1	**Basic requirements +** - Closed heel area - Antistatic properties - Heel energy absorption - Resistance to fuel oil
S1P	**S1 +** - Anti-puncture resistance (P)
S2	**S1 +** - Water penetration and absorption
S3	**S2 +** - Anti-puncture resistance - Cleated outsole

EN ISO 20346 and EN ISO 20347

	Professional use	Symbol			
EN ISO 20346	Protective footwear (100 Joule toecap)	PB	P1	P2	P3
EN ISO 20347	Work footwear (without toecap)	OB	O1	O2	O3

Additional requirements for specific applications with relevant marking symbol

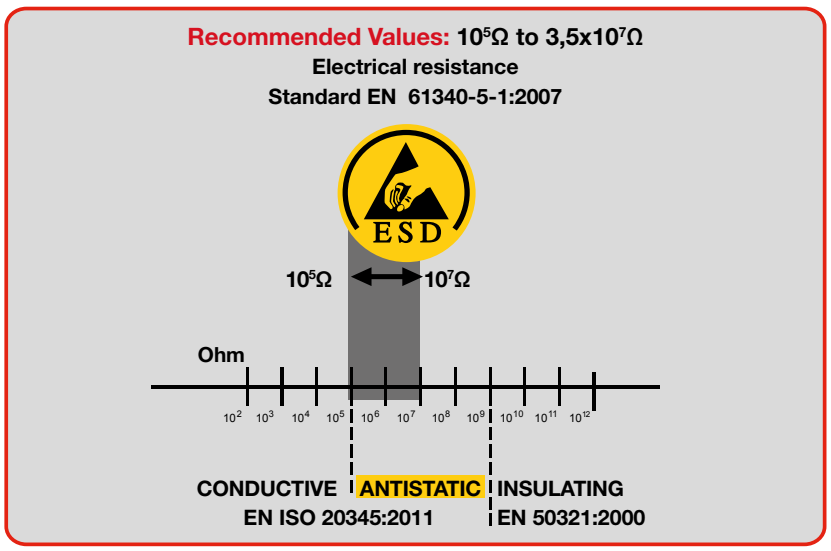
	Requirement	Symbol
Whole shoe	Penetration resistance	P
	Electrical properties:	
	- Conductive footwear	C
	- Antistatic footwear	A
	Resistance to inimical environments:	
	- Heat insulation of the sole complex	HI
	- Cold insulation of the sole complex	CI
	- Energy absorption of the seat area	E
	- Water resistance	WR
	- Metatarsal protection	M
	- Ankle protection	AN
	- Cut resistance	CR
Upper	Water penetration and water absorption	WRU
Outsole	Resistance to hot contact	HRO
	Resistance to fuel oil	FO

European standards and sizes

Chain saw resistance standard: EN ISO 17249

Footwear protecting against chainsaw cuts. (Forestry, tree-felling, etc).
Class I: chain speed 20 m/s
Class II: chain speed 24 m/s
Class III: chain speed 28 m/s

ESD certification - 61340-5-1:2007 class 3 table 1



Fire Fighter standard: EN 15090:2012

Minimum performance requirements and corresponding test methods for fire service footwear to be used in fire fighting and related activities. (See page 445).

SRC Certification

Slip resistance performance of the outsole

Marking	Surface	Lubricant	• Friction factor: requirements flat	• Friction factor: requirements heel
SRA	Ceramic plates	Sodium lauryl sulfate	≥ 0.32	≥ 0.28
SRB	Steel	Glycerol	≥ 0.18	≥ 0.13
SRC	Meets requirements for the 2 above tests (SRA + SRB)			

Size conversion chart

FR	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
UK	3	3.5	4	5	6	6.5	7	8	9	10	10.5	11	12	13	13.5

COCOON

A new safety footwear experience for women

Wearing safety shoes is most of the time a bad experience for ladies: heavy, not aesthetic, un-adapted and even sometimes just a men's shoe in a small size. The new Cocoon range of safety footwear has been designed and developed to provide comfort, lightness and performance to ensure lady's satisfaction.

SIMPLICITY

The Cocoon experience starts with the new packaging. Easy to open, it is also includes a quick start guide: advice for proper use and daily maintenance of the shoes.

COMFORT

This new range has been designed specifically to respect women's morphology, ensuring perfect adaptation to the natural movements of the foot. The use of high quality materials ensures immediate comfort as well as long term foot health.

LIGHTNESS

Integrating the best non metallic safety elements:

- the latest generation of non metallic toecap. Thin and 50% lighter but still ensuring a strong level of protection.
- Flexium non metallic midsole provides a flexible anti-puncture shield protection of the whole surface of the foot.

GRIP

The new PU-Rubber outsole provides a strong level of grip. The design of the cleats, along with the quality outsole material, improve safety to help prevent slips, trips and falls.

DESIGN

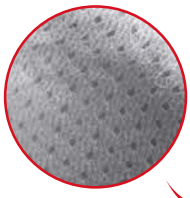
Inspired by fashion trends, the Cocoon range is a fine combination of modernity and traditional shoe making know-how. Wearers can adapt the look of their footwear by opting to use black laces or the lavender coloured laces also supplied with each pair of shoes.

> *"I need to wear my safety shoes all day long. Comfort is very important to avoid any pain at the end of the day, but it is also great to wear some shoes that do not look like safety shoes. The new cocoon range is really adapted to our shape and size, and looks like classical sport shoes."*

Cocoon

Ladies safety footwear

KEY FEATURES



(1) Poromax®:
- Due to its hydrophilic treatment, acquires full moisture absorption properties
- Antibacterial and antimicrobial due to the Thermy-tex treatment

Poromax® 3D lining (1)

Delivered with two pairs of laces

Full grain water repellent leather

Double density insole

Flexium® non metallic antipuncture midsole

Non metallic toecap

NEW PU-RUBBER OUTSOLE

- Large surface in contact with the ground for an improved grip
- Cleats designed for water evacuation
- Strong abrasion resistance
- Sizes: 35 – 42

Cocoon — Ladies safety footwear

Cosy Black
S3 HI CI SRC

Ref. 65 516 01

Cosy Black ESD
S3 HI CI SRC

Ref. 65 516 09

New

Metal free

FEATURES & BENEFITS

- Water-resistant leather upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Flexibility and comfort
- Ideal for humid environments

EN ISO 20345:2011 S3 HI CI SRC

Sizes 35 - 42

Cosy Grey
S3 HI CI SRC

Ref. 65 516 02

New

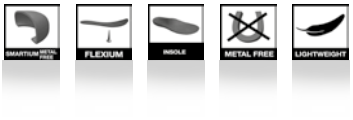
Metal free

FEATURES & BENEFITS

- Water-resistant microfiber upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Flexibility and comfort
- Ideal for humid environments

EN ISO 20345:2011 S3 HI CI SRC

Sizes 35-42



Cosy Mid
S3 HI CI SRC

Ref. 65 516 03

Cosy Mid ESD
S3 HI CI SRC

Ref. 65 516 10

New

Metal free

FEATURES & BENEFITS

- Water-resistant leather upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Excellent ankle support
- Ideal for humid environments

EN ISO 20345:2011 S3 HI CI SRC

Sizes 35-42

Cocoon — Ladies safety footwear

Glee
S3 HI CI SRC

New

Ref. 65 516 04

Metal free

FEATURES & BENEFITS

- Water-resistant textile and microfiber upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Flexibility and comfort
- Ideal for humid environments

EN ISO 20345:2011 S3 HI CI SRC

Sizes 35 - 42

Spice
S1P HI CI SRC

Ref. 65 516 07

Spice ESD
S1P HI CI SRC

Ref. 65 516 11

New

Metal free

FEATURES & BENEFITS

- Ventilated mesh upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Flexibility and comfort
- Ideal for dry environments

EN ISO 20345:2011 S1P HI CI SRC

Sizes 35-42

Sweet
S1P HI CI SRC

New

Ref. 65 516 08

Metal free

FEATURES & BENEFITS

- Ventilated mesh upper
- Ergonomic padded ankle collar
- 3D Poromax® lining
- Delivered with two pairs of laces
- Flexibility and comfort
- Ideal for dry environments

EN ISO 20345:2011 S1P HI CI SRC

Sizes 35-42

Temptation® City

Ladies safety footwear

Temptation® City

The Temptation City collection consists of 10 smart models, combining soft materials (leather or suede) with optimal protection:
- Temptation City outsole: thin, light and flexible, slip-resistant on all types of surface.
- Leather lining for improved hygiene and greater comfort.
- 200 Joules steel toecap (except Bacou Office).

With classic colours, these shoes will look good with all types of dress code.

Bacou Office
O1 SRA

Ref. 65 515 26

FEATURES & BENEFITS

- Black full grain leather court shoes with leather lining.
- Without toe cap.
- **Suitable for wearing with uniform.**

EN ISO 20347: 2012 O1 SRA

Sizes 35-42

Bacou Success
S2 SRC

Ref. 65 511 25

FEATURES & BENEFITS

- Black water-resistant full grain leather shoe.
- Padded and ergonomic collar.
- **Flexibility and comfort.**
- **Ideal for humid environments.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-42

Bacou Success
S3 SRC

Ref. 65 511 26

- Same model with Flexium™ anti-puncture midsole.

EN ISO 20345: 2011 S3 SRC

Bacou Top
S3 SRC

Ref. 65 511 31

FEATURES & BENEFITS

- Black water-resistant full grain leather ankle boot.
- Ergonomic ankle collar.
- **Excellent ankle support.**
- **Ideal for humid environments.**
- Flexium™ anti-puncture midsole.

EN ISO 20345: 2011 S3 SRC

Sizes 35-42

Temptation® City

Ladies safety footwear

Bacou Easy

S2 SRC

Ref. 65 511 40

FEATURES & BENEFITS

- Loafer in navy blue water-resistant leather.
- **Quick and easy to put on/take off.**
- **Ideal for damp environments.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-42

TOECAP

Bacou Image

S2 SRC

Ref. 65 511 35

FEATURES & BENEFITS

- Black full grain leather shoe with buckle fastening.
- Padded and ergonomic collar
- **Suitable for wearing with uniform.**
- **Ideal for humid environments.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-42

TOECAP

Bacou Fine

S1 SRC

Ref. 65 511 55

FEATURES & BENEFITS

- Black suede leather moccasin.
- **Quick and easy to put on/take off.**
- **Ideal for dry environments.**

EN ISO 20345: 2011 S1 SRC

Sizes 35-42

TOECAP

Temptation® City — Ladies safety footwear

Bacou Lite Blue
S1 SRC

Ref. 65 511 52

FEATURES & BENEFITS

- Navy blue sandal in perforated microfiber.
- **Provides improved foot ventilation.**
- **Ideal for dry environments.**

EN ISO 20345: 2011 S1 SRC

Sizes 35-42

TOECAP

Bacou Blue Labo
SB EA SRC

Ref. 65 515 05

FEATURES & BENEFITS

- Perforated microfiber upper.
- Greater comfort due to leather lining.
- **Footwear is easy to put on/take off.**
- **Ideal for dry environments.**

EN ISO 20345: 2011 SB EA SRC

Sizes 35-42

TOECAP

Oil & Gas

Energy range

This new range is dedicated to oil and gas industry providing comfort, performance and durability.
The premium raw materials have been selected to guarantee the best protection in harsh and tough environments, the non metallic toe cap and anti puncture midsole insure lightness and thermal insulation while the injected outsole brings flexibility and slip resistance on any surface.
New generation of oil & gas products: no compromise between comfort, performance and durability!

SPECIFIC PATTERNS AND DESIGNS:
- Quick and easy fluids evacuation
- Durability with reinforced stitching
- No additional stitching on quarter to provide strong abrasion resistance

INTEGRATION OF A LATERAL ZIPPER:
- Quick step in and out
- Water bellows for improved protection against fluids penetration

SPECIFIC FOCUS ON COMFORT :
- Padded and ergonomic collar
- 3D lining providing thermal insulation
- Technical insole removable, ergonomic, antistatic and anti bacteria

PERFORMANCE IN TOUGH AND HARSH ENVIRONMENTS:
- Exclusive injected PU2D outsole combining lightweight, excellent choc absorption, abrasion and slip resistance on any surface

Oil & Gas – Energy range

Synergic

New

Bacou Free
New Generation

S3 CI HI SRC

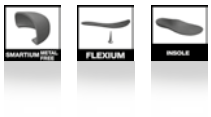
Ref. 62 462 20

FEATURES & BENEFITS

- Water resistant full grain leather upper
- Poromax® 3D lining : breathable, absorbent, fast drying
- Padded and ergonomic collar
- PU coated microfiber scuff cap
- Reflective piping at the heel
- Specific patterns for improved fluids evacuation
- PU2D Injected outsole

EN ISO 20345:2011

Sizes 35-49



PU. 2D

Energic

New

Bacou Free
New Generation

S3 CI HI SRC

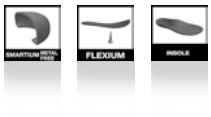
Ref. 62 462 21

FEATURES & BENEFITS

- Water resistant full grain leather upper
- Poromax® 3D lining : breathable, absorbent, fast drying
- Padded and ergonomic collar
- PU coated microfiber scuff cap
- Lace and lateral zipper with watertight bellows
- Specific patterns for improved fluids evacuation
- PU 2D Injected outsole

EN ISO 20345:2011

Sizes 35-49



PU. 2D

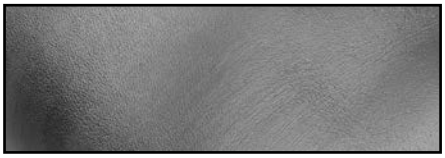
Executive

Lightness, comfort and style

Executive range

Developed with traditional shoe making knowledge, the executive range is built on a new last, dedicated to a modern and elegant style. Non metallic safety elements ensure lightness and protection.

The most elegant safety footwear…



Smooth full grain leather uppers
Supple and resistant

Microfiber insole
Comfort and breathability

Fully lined with leather
Optimal comfort and evacuation of perspiration

New Executive outsole
Lightweight and flexible with SRC slip resistance properties

Delivered with two pairs of laces
black for discretion, colored for style

SMARTIUM 200J non metallic toecap
Non magnetic, protects from cold or warm environments

Executive

Elegio
S3 CI SRC

Ref. 65 430 16

Metal free

FEATURES & BENEFITS

- Black Oxford shoe.
- Smooth full grain leather upper.
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Enro
S3 CI SRC

Ref. 65 430 11

Metal free

FEATURES & BENEFITS

- Black Oxford lace-up ankle boot.
- Smooth full grain leather upper.
- Back loop, to make it easier to pull on and take off
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Erro
S3 CI SRC

Ref. 65 430 10

Metal free

FEATURES & BENEFITS

- Black brogue shoe.
- Smooth full grain leather upper.
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Executive

Elano
S3 CI SRC

Ref. 65 430 15

Metal free

FEATURES & BENEFITS

- Black loafer.
- Smooth full grain leather upper.
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Envio
S3 CI SRC

Ref. 65 430 14

Metal free

FEATURES & BENEFITS

- Black Derby-style shoe.
- Smooth full grain leather upper.
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Exceptio
S3 CI SRC

Ref. 65 430 12

Metal free

FEATURES & BENEFITS

- Black Chelsea boot.
- Smooth full grain leather upper.
- Back loop, to make it easier to pull on and take off
- Fully lined in leather.
- **Ideal for wear with uniforms.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-48

Executive

Envio brown
S1P SRC

Ref. 65 430 17

Metal free

FEATURES & BENEFITS

- Derby-style shoe
- Suede leather upper
- Fully lined in leather
- **Ideal for wear with uniforms.**

EN ISO 20345 : 2011 S1P SRC

Sizes 38-48

Ekla
S1P SRC

Ref. 65 430 18

Metal free

FEATURES & BENEFITS

- Derby-style shoe
- Microfiber upper
- No lining for an improved lightness
- **Ideal for wear with uniforms.**

EN ISO 20345 : 2011 S1P SRC

Sizes 38-48

Epik
S1P SRC

Ref. 65 430 19

Metal free

FEATURES & BENEFITS

- Derby-style boot
- Microfiber upper
- No lining for an improved lightness
- **Ideal for wear with uniforms.**

EN ISO 20345 : 2011 S1P SRC

Sizes 38-48

Elipse
S1P CI SRC

Ref. 65 430 20

Metal free

FEATURES & BENEFITS

- Derby-style boot
- Microfiber upper
- Padded ankle collar
- No lining for an improved lightness
- **Ideal for wear with uniforms and suitable for drivers.**

EN ISO 20345 : 2011 S1P SRC

Sizes 38-48

Athletic

Foot support, stability control and grip

Athletic Technology

Thanks to its PPE expertise, the Honeywell R&D team has developed an exclusive dual density TPU sole that optimizes shock absorption, flexibility and slip resistance on all types of surfaces. This technology ensures excellent comfort under all circumstances to even the most demanding customers.

Athletic TPU outsole

PU. TPU

Self-cleaning sole
- Cleated design allowing fluid evacuation.

Stability
- Rigid inserts (70 SH) to optimize the physical and chemical properties of TPU.
- Anti-torsion effect and walking stability.

Flexibility
- The flexibility line respects the biomechanics of the foot, makes working in a flexed position easier and reduces fatigue.

Grip
- Large softer TPU surface (SH 64) in direct contact with the ground.
- Excellent grip and shock absorption.
- Increased resistance to abrasion.

Absorption
of shocks and vibration.

Athletic

Ascender
S3 CI SRC

Ref. 62 438 50

Metal free

FEATURES & BENEFITS

- Water resistant leather and textile upper.
- Poromax® 3D lining: breathable, absorbent, fast drying.
- Reinforcement over toecap.
- Speed lacing system and lace pocket.
- Padded tongue with watertight bellows.
- Coolmax® insole for an optimal perspiration absorption.

- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 37-47

ATHLETIC FLEXIUM INSOLE METAL FREE

COOLMAX® PU. TPU

Ascender Mid
S3 CI SRC

Ref. 62 438 51

Metal free

FEATURES & BENEFITS

- Water resistant leather and textile upper.
- Poromax® 3D lining: breathable, absorbent, fast drying.
- Reinforcement over toecap.
- Speed lacing system and lace pocket.
- Padded tongue with watertight bellows.
- Coolmax® insole for an optimal perspiration absorption.

- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 37-47

ATHLETIC FLEXIUM INSOLE METAL FREE

COOLMAX® PU. TPU

Fresco
S1P CI SRC

Ref. 62 438 54

Metal free

FEATURES & BENEFITS

- Suede leather and mesh upper.
- Poromax® 3D lining: breathable, absorbent, fast drying.
- Reinforcement over toecap.
- Specific design to optimize breathability and keep feet dry.
- Coolmax® insole for an optimal perspiration absorption.

- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S1P CI SRC

Sizes 37-47

ATHLETIC FLEXIUM INSOLE METAL FREE BREATHABILITY

COOLMAX® PU. TPU

Athletic

Fresco Mid
S1P CI SRC

Ref. 62 438 55

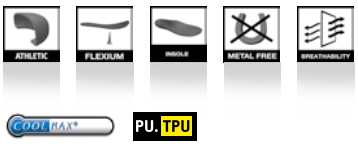
FEATURES & BENEFITS

Metal free

- Suede leather and mesh upper.
- Poromax® 3D lining: breathable, absorbent, fast drying.
- Toe cap reinforcement.
- Specific design to optimize breathability and keep feet dry.
- Coolmax® insole for an optimal perspiration absorption.
- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S1P CI SRC

Sizes 37-47



PU. TPU

Booster Black
S1P CI SRC

Ref. 62 438 53

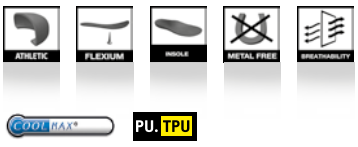
FEATURES & BENEFITS

Metal free

- Suede leather and mesh upper.
- 3D mesh moisture management lining.
- Reinforcement over toecap.
- Coolmax® insole for an optimal perspiration absorption.
- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S1P CI SRC

Sizes 37-47



PU. TPU

Podium
S3 CI SRC

Ref. 62 438 29

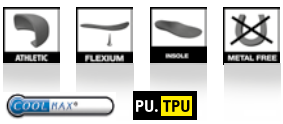
FEATURES & BENEFITS

Metal free

- Water-resistant nubuck leather upper.
- Poromax® 3D lining: breathable, absorbent, fast drying and quick drying.
- Padded tongue with watertight bellows.
- Coolmax® insole for an optimal perspiration absorption.
- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 37-47



PU. TPU

Athletic

ESD

Ascender ESD
S3 CI SRC

Ref. 62 438 57

Metal free

FEATURES & BENEFITS

- Water resistant leather and textile upper.
- Poromax® 3D lining: breathable, absorbent, fast drying.
- Reinforcement over toecap.
- Speed lacing system and lace pocket.
- Padded tongue with gussets.
- Specific ESD insole.

- **Injected PU/TPU outsole to optimize shock absorption, flexibility and slip resistance on all surfaces.**

EN ISO 20345: 2011 S3 CI SRC
EN 61340-4-3:2001 Class 3 table 1

Sizes 37-47

Bacou Original

Trust the experts in professional footwear

Bacou Original Technology

With the Bacou Original range, Honeywell offers models designed with one aim: to be aligned with user expectations, whatever the sector of activity (industry, construction, transport/logistics, etc)..

HIGH-PERFORMANCE PU2D OUTSOLE INJECTED, SRC CERTIFIED

FEATURES & BENEFITS

- Dual density polyurethane: PU2D.
- Comfort layer of density 0.5: guarantees lightness and flexibility, ensures shock absorption and protects against changes in temperature.
- Outsole layer of density 1: resistant to abrasion, fuel oil and grease.
- High slip resistance due to well defined cleat design: wide, deep and self-cleaning.
- Energy absorption capacity: > 20 joules.
- Excellent resistance to abrasion: Volume loss <150 mm3 (with a load of 10N = 1 kg).
- Extension before tearing 650%
- Optimised resistance to repeated flexing twice the requirement of the standard (> 60,000: standard > 30,000).
- Resistant to acids and alkalis limited to low concentrations.

PU. 2D

Specially designed flexion lines
- To respect the foot's biomechanical action.

Channels to evacuate fluids:
- Prevent slipping.
- Fluids are directly evacuated from initial heel impact.

Marked heel
- Heel shock absorber for greater comfort.
- Marked heel for excellent stability on all types of surfaces.

Bacou Original

Lining with 3D structure

- Complies with the requirements of the new EN ISO 20345: 2011 standard.
- Double the number of test cycles for abrasion:
- 51200 cycles in dry conditions
- 25600 cycles in wet conditions

Water-resistant full grain or suede leather uppers

- Exceptional breathability: leathers 6 times more breathable than the minimum requirements of the standard.
- Water-resistant protection that is above the standard: 10 times more resistant to water penetration.

Breathability	
ISO 20345: 2011	> 0.8
Honeywell	4.8

Water penetration resistance	
ISO 20345: 2011	< 2mg
Honeywell	0.2mg

Insole

- Double density PU foam for intensive use.
- Removable: easy maintenance and longevity.
- Anti-bacterial and anti-odour.
- Antistatic for optimum efficiency.
- Comfort pad under the heel: prevents injury and muscle fatigue.
- Evacuation channels: ensure the circulation of air under the foot when walking.

Padded ankle collar and tongue

- Adapted to the user's foot shape.
- Ensures comfort when worn for long periods.

Lateral watertight bellows

- Prevents liquids and dust entering the shoe.

Anti-puncture sole

- Stainless steel: efficient technology covering the most extensive panel of risks.
- Anti-puncture resistance: over 1100N with spike of 4.5mm.

SPACIUM™ 200J toecap in injected polymer

- Non-metallic: 50% lighter than steel.
- Wide toecap for greater comfort: suitable for all types of feet.
- Metal free.
- Thermal insulation.
- Unalterable.

Bacou Original

Bacou Smilo 1
S3 HI CI SRC

Ref. 62 461 03

Bacou Sinra 2
S3 HI CI SRC

Ref. 62 461 04

FEATURES & BENEFITS

- Water-resistant leather and textile upper.
- Reinforced protection over the toecap:
- Anti-bacterial lining with 3D structure.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 HI CI SRC

Sizes 35-49

PU. 2D

Bacou Hepto 1
S3 HI CI SRC

Ref. 62 461 12

Bacou Haltica 2
S3 HI CI SRC

Ref. 62 461 13

FEATURES & BENEFITS

- Water-resistant leather upper.
- System of overlap seams to avoid water penetration.
- Limited lateral stitching.
- Retro-reflective side band.
- Anti-bacterial lining with 3D structure.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 HI CI SRC

Sizes 37-48

PU. 2D

Bacou Caleo 1
S3 HI CI SRC

Ref. 62 461 01

Bacou Cerata 2
S3 HI CI SRC

Ref. 62 461 02

FEATURES & BENEFITS

- Water-resistant oiled leather and textile upper.
- Reinforced protection over the toecap and back.
- Anti-bacterial lining with 3D structure.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 HI CI SRC

Sizes 35-49

PU. 2D

Bacou Original

Bacou Plateo 1
S3 HI CI SRC

Ref. 62 461 05

Bacou Plomita 2
S3 HI CI SRC

Ref. 62 461 06

FEATURES & BENEFITS

- Water-resistant leather upper.
- Anti-bacterial lining with 3D structure.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 HI CI SRC

Sizes 37-48

PU. 2D

Bacou Siluo 1
S1P HI CI SRC

Ref. 62 461 09

Bacou Solana 2
S1P HI CI SRC

Ref. 62 461 10

FEATURES & BENEFITS

- Suede upper with ventilated mesh.
- Flexing area at the forefoot, in breathable textile.
- Anti-bacterial lining with 3D structure.
- Lateral bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S1P HI CI SRC

Sizes 37-48

PU. 2D

Bacou Acanto 1
S1P HI CI SRC

Ref. 62 461 07

Bacou Acanti 2
S1 HI CI SRC

Ref. 62 461 08

FEATURES & BENEFITS

- Perforated suede upper.
- Anti-bacterial lining with 3D structure.
- Lateral bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S1P* HI CI SRC

* S1P, valid only for the Bacou Acanto model.

- Same model without anti-puncture sole.

EN ISO 20345: 2011 S1 HI CI SRC

Sizes 35-49

PU. 2D

Bacou Original

Bacou Solanum

S1P SRC

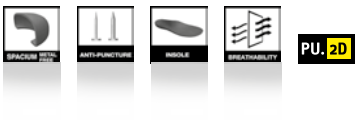
Ref. 62 461 11

FEATURES & BENEFITS

- Breathable microfibre upper.
- Self-gripping strap fastening.
- Anti-bacterial lining with 3D structure.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S1P SRC

Sizes 35-49



Bacou Stirex

S3 CI SRC

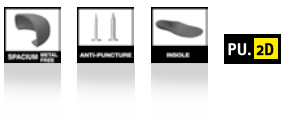
Ref. 62 461 24

FEATURES & BENEFITS

- Water-resistant leather upper.
- Warm fleece lining, ideal for long periods of work on cold or frozen ground.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-47



Bacou Tylex 1

S3 SRC

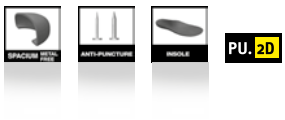
Ref. 62 461 20

FEATURES & BENEFITS

- Water-resistant oiled leather upper.
- Extra wide pull-on lugs.
- Few lateral seams.

EN ISO 20345: 2011 S3 SRC

Sizes 35-49



Bacou Silvex 2

S3 CI SRC

Ref. 62 461 21

- Same model with warm fleece lining:

EN ISO 20345: 2011 S3 CI SRC

2 Bacou Silvex

Bacou Original ESD

ESD certified professional footwear

ESD shoes are essential in areas such as microelectronics, semiconductors or printed circuits. The human body emits electrostatic charges that can damage electronic components, which can lead to malfunctions in the final product (mobile phones, computers, etc)..

Bacou Plug ESD

S1P SRC

Ref. 62 461 34

FEATURES & BENEFITS

- Breathable microfibre upper.
- Self-gripping strap fastening.
- Anti-bacterial lining with 3D structure.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S1P SRC
EN 61340-4-3:2001 Class 3 table 1

Sizes 35-49

Bacou Elec ESD 1

S3 HI CI SRC

Ref. 62 461 33

Bacou Micrel ESD 2

S3 HI CI SRC

Ref. 62 461 35

FEATURES & BENEFITS

- Water-resistant oiled leather and textile upper.
- Reinforced protection over the toecap.
- Anti-bacterial lining with 3D structure.
- Lateral watertight bellows.
- Padded ankle collar and tongue.

EN ISO 20345: 2011 S3 HI CI SRC
EN 61340-4-3:2001 Class 3 table 1

Sizes 35-49

Bacou Original Free New Generation

Providing safety first

Improved range of safety footwear that provides you with the highest level of protection – supported by a strong manufacturing process and high quality materials – and a great working experience.

Poromax® lining 3D

- Complies with the requirements of the new EN ISO 20345: 2011 standard.
- Due to its hydrophilic treatment, acquires full moisture absorption properties antimicrobial thanks to the Thermy-tex treatment.

Water-repellent leather or suede upper

- Exceptional breathability: leathers 6 times more breathable than the minimum standards requirements.
- Water-resistant protection that is above the standard:

10 times more resistant to water penetration

Breathability	
ISO 20345: 2011	> 0.8
Honeywell	4.8

Water penetration resistance	
ISO 20345: 2011	< 2 mg
Honeywell	0.2 mg

Padded ankle collar and tongue:

- Adapted to the user's foot shape.
- Ensures comfort when worn for long periods.

Lateral watertight bellows:

- Prevents liquids and dust entering the shoe.

Insole

- Double density PU foam for intensive use.
- Removable: easy maintenance and longevity.
- Anti-bacterial and anti-odour.
- Antistatic foam: optimum efficiency.
- Comfort pad under the heel: prevents injury and fatigue.
- Evacuation channels: ensure the circulation of air under the foot when walking.

New last developed for an improved fitting

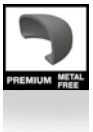
- To wear the foot without impacting its natural motion
- Respecting european's foot dimensions, providing a fitting closer to the foot, avoiding injuries and wear of socks
- Modified rear slipcase to respect the line of the tendon
- Ensure static and dynamic balance of the foot
- Raised toecap to improve toe's comfort

Flexium™ anti-puncture midsole

- In high tenacity and antistatic textiles.
- Covers 100% of the sole of the foot.
- Full protection and flexibility when walking.

New strong grip outsole PU 2D

- In average 36% better grip properties than the 20345:2011 Standard requirements
- Lines of flexion to respect the foot's biomechanical action
- Channels to evacuate fluids and prevents slipping
- Marked heel shock absorber for a greater comfort



New premium toecap

- Non-metallic.
- Enhanced safety against risks of impact and compression.
- Thermal insulation.
- Development of a new toecap with improved performances: +14% additional clearance vs standard on impact compression, out of 60 data points
- Updated design

Bacou Original Free

Bacou Creek AMG

S3 HI CI SRC

Ref. 62 461 58

Bacou Free
New Generation

Metal free

FEATURES & BENEFITS

- Water-resistant oiled brown leather and textile upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Lateral watertight bellows.
- Reinforced protection at the front and back.
- **Ideal for humid environments.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 35-49

PU. 2D

Bacou Peak AMG

S3 HI CI SRC

Ref. 62 461 57

Bacou Free
New Generation

Metal free

FEATURES & BENEFITS

- Water-resistant oiled brown leather and textile upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Lateral watertight bellows.
- Reinforced protection at the front and back.
- **Ensures good ankle support.**
- **Ideal for humid environments.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 35-49

PU. 2D

Bacou Original Free

Bacou Marsh AMG
S3 CI SRC

Ref. 62 461 56

Bacou Free
New Generation

Metal free

FEATURES & BENEFITS

- Water-resistant black oiled leather upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Lateral watertight bellows.
- **Ideal for industry and in humid environments.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-47

PU. 2D

Bacou Track AMG
S3 CI SRC

Ref. 62 461 55

Bacou Free
New Generation

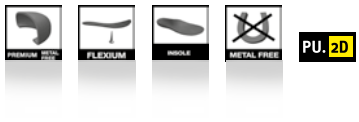
Metal free

FEATURES & BENEFITS

- Water-resistant black oiled leather upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Lateral watertight bellows.
- **Ensures good ankle support.**
- **Ideal for industry and in humid environments.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-47



PU. 2D

Bacou Original Free

Bacou Summit AMG

S1P SRC

Ref. 62 461 59

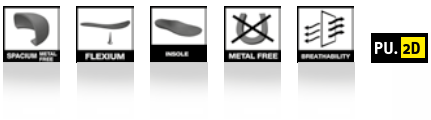
FEATURES & BENEFITS

Metal free

- Grey perforated suede and textile upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- **Provides good foot ventilation.**
- **Ideal for light industry and logistics.**

EN ISO 20345: 2011 S1P SRC

Sizes 35-49



PU. 2D

Bacou Cross AMG

S1P SRC

Ref. 62 461 60

FEATURES & BENEFITS

Metal free

- Grey perforated suede and textile upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Lateral bellows.
- **Provides good ventilation and foot support.**
- **Ideal for light industry and logistics.**

EN ISO 20345: 2011 S1P SRC

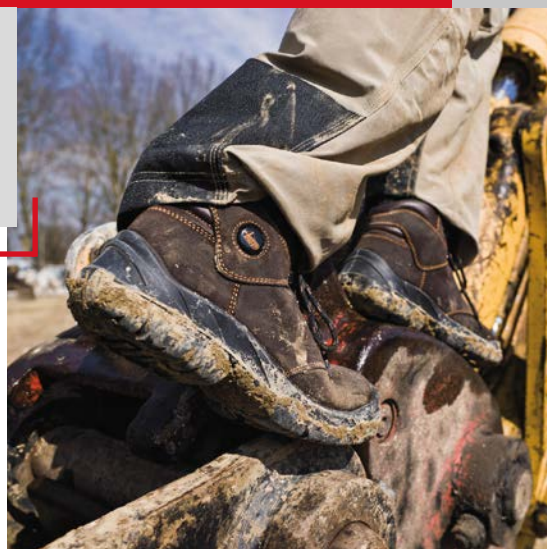
Sizes 38-47

PU. 2D

Bacou Original Specifics Construction

Protection, Durability, Comfort

With the Bacou Original Specific range, Honeywell offers seven models dedicated to specific environments (Oil & Gas, construction, energy, outdoor activities, etc).



Bacou Pro BTP

S3 CI SRC

Ref. 62 461 50

Bacou Free
New Generation

FEATURES & BENEFITS

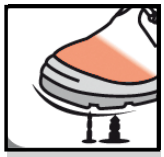
- Water-resistant oiled leather upper.
- Poromax® lining 3D: breathable. absorbent and quick drying.
- Lateral watertight bellows.
- Safe Comfort Lasting System: reinforced protection with 3D textile lining for breathability.
- Anti-puncture concept: optimal protection against the puncture risks specific to construction.
- **Ideal for humid environments.**
- **Ensures good protection against puncture via of outsole in a dynamic situation.**

EN ISO 20345: 2011 S3 CI SRC

Sizes 38-49

HYDRO PROTECT

ENHANCED SAFETY



GRIPS ALL SURFACES

BREATHABLE

Bacou Original Specifics Construction

Bacou Histrio BTP
S3 SRC

Ref. 62 461 53

Bacou Free
New Generation

FEATURES & BENEFITS

- Ankle boot in microfibre material, with retro-reflective lateral band
- Padded ankle collar and tongue
- Anti-bacterial lining with 3D structure: breathable and quick-drying.
- Lateral watertight bellows.
- Lacing system with self-blocking hooks.
- Stainless steel anti-puncture midsole: ensures excellent protection against the perforation via the sole in dynamic situations.

EN ISO 20345:2011 S3 SRC

Sizes 38-49

PU. 2D

Bacou Hulso BTP
S3 SRC

Ref. 62 461 54

Bacou Free
New Generation

FEATURES & BENEFITS

- High leg ankle boot in microfibre material.
- Ergonomical and reinforced back area for an optimal comfort.
- Poromax® 3D textile lining: breathable, absorbent and quick-drying.
- Lacing system with self-blocking hooks.
- Rivet reinforcement and quadruple stitching.
- Lateral watertight bellows.
- Safe Comfort Lasting System: reinforced protection with 3D textile lining for breathability.
- Anti-puncture concept: optimal protection against the puncture risks specific to construction.
- **Ensures good protection against puncture via the outsole in dynamic situations.**

EN ISO 20345:2011 S3 SRC

Sizes 35-49

PU. 2D

Bacou Original Specifics

Bacou Venato
S3 WR SRC

Ref. 62 461 25

FEATURES & BENEFITS

- Water-resistant oiled leather and textile upper.
- Water-proof-breathable SympaTex® membrane.
- **Ideal for wet outdoor environments.**

EN ISO 20345: 2011 S3 WR SRC

Sizes 38-47

Bacou Energy
S3 HI CI SRC

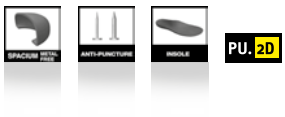
Ref. 62 461 26

FEATURES & BENEFITS

- Water-resistant oiled leather upper.
- Poromax® lining 3D: breathable, absorbent and quick drying.
- Padded and ergonomic ankle collar.
- Lateral watertight bellows.
- **Ensures excellent foot support.**
- **Ideal for the petroleum industries and humid environments.**

EN ISO 20345: 2011 S3 HI CI SRC

Sizes 38-47



Bacou Original Specifics

Bacou Outdoor

The range suitable for extreme environments

Maximum comfort and reliability for outdoor wear

The Bacou Outdoor range is especially recommended for outdoor use. The Freedom'4 Move outsole ensures stability on irregular and uneven ground.
The construction of the uppers and the use of a waterproof-breathable SympaTex® membrane ensure the footwear is perfectly watertight in cold and damp environments. A complete range for wear on all terrains that require sturdy and comfortable protection.

PU. 2D

Freedom'4 Move

The multi-density sole ensures the foot's movement is both free and protected, suited to even the most demanding environments.

Cushioned

- Comfort layer and shock absorber at the heel.

Stability

- Reinforced arch support and sole design to maximize the area of ground contact so the foot remains in line with your stride.

Propulsion

- Self-cleaning cleats and flexion line to ensure maximum grip.

Protection

- Heel reinforcements and front guard for greater reliability.

- Sizes: 39 to 47.
- Non-metallic safety features.

SPACIUM METAL FREE

FLEXIUM

- Water-proof-breathable SympaTex® membrane depending on the model.

WATER RESISTANT

SympaTex®

Bacou Outdoor

Bacou Ballast

S3 CI SRC

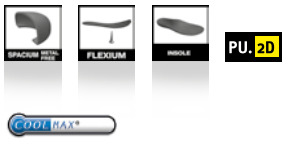
Ref. 62 455 64

FEATURES & BENEFITS

- Water-resistant oiled leather upper.
- Ergonomic ankle collar and reflective textile.
- Reinforced protection at the front.
- Anti-bacterial lining with silver ions and Coolmax® fibres.

EN ISO 20345: 2011 S3 CI SRC

Sizes 39-47



Bacou Canyon

S3 CI WR SRC

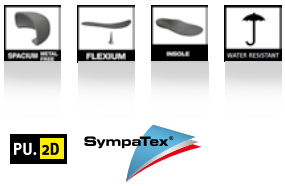
Ref. 62 455 60

FEATURES & BENEFITS

- Water-resistant breathable microfibre upper.
- Limited stitching.
- Waterproof-breathable SympaTex® membrane.
- **Ideal for use in extreme weather conditions.**
- **Specifically for outdoor work.**

EN ISO 20345: 2011 S3 CI WR SRC

Sizes 39-47



Bacou Rock

S3 CI WR SRC

Ref. 62 455 62

Bacou Rock

S3 CI SRC

Ref. 62 455 63

FEATURES & BENEFITS

- Water-resistant full grain nubuck leather upper for extra durability.
- Limited stitching.
- Waterproof-breathable SympaTex® membrane.
- **Ideal for wet and cold environments.**

EN ISO 20345: 2011 S3 CI WR SRC

- Version without membrane.
- Poromax® lining: breathable, absorbent and quick drying.

EN ISO 20345: 2011 S3 CI SRC

Sizes 39-47

Bacou Outdoor

Bacou Concept

S3 CI WR SRC

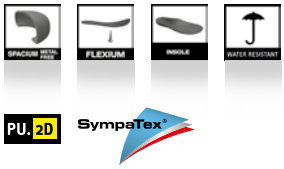
Ref. 62 455 46

FEATURES & BENEFITS

- Water-resistant oiled leather upper.
- Waterproof-breathable SympaTex® membrane.
- Flexion area in the back for easier bending.

EN ISO 20345: 2011 S3 CI WR SRC

Sizes 39-47



PU. 2D SympaTex®

Bacou Concept AC

S3 CI WR SRC CLASS II

Ref. 62 455 45

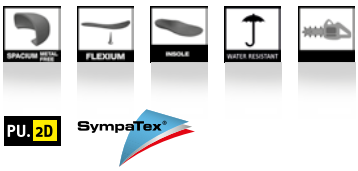
Tree felling specific

FEATURES & BENEFITS

- Water-resistant oiled leather upper fully lined with fabric resistant to chain saw cuts.
- Waterproof-breathable SympaTex® membrane.
- Flexion area in the back for easier bending.
- **Protection against the risk of Class II chainsaw cuts (chain speed 24m/s).**

EN ISO 17249 Class II S3 WR SRC

Sizes 39-47



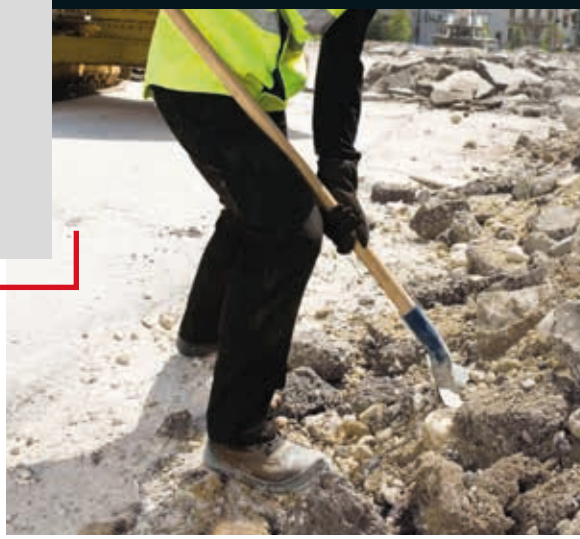
PU. 2D SympaTex®

Bac'Run® PUN

Resistance, versatility, comfort

Outsole BAC'RUN® POLYNIT™

- PU/Nitril outsole composed of a layer in nitril in contact with the ground and a PU comfort layer.
- Resistant to heat by contact up to 300°C.
- Ideal for long periods of work on either hot, or cold/frozen ground.



SPACIUM™ 200J NON-METALLIC TOE CAP

- Metal free and unalterable.
- Protects from hot and cold.

Effective protection and imperceptable to the wearer.

WATER-RESISTANT LEATHER

- Resistant to fluid splashes and tearing.

Long life span.

POROMAX® 3D LINING (depending on the model)

- Due to its hydrophilic treatment, acquires full moisture absorption properties antimicrobial thanks to the Thermy-tex treatment.

PADDED ERGONOMIC ANKLE COLLAR AND TONGUE

- Ankle and instep protection.

BAC'RUN INSOLE®

- Removable, antistatic and anti-bacterial.

Improved hygiene.
Greater comfort.

PU. NITRILE

Bac'Run® PUN

Bacou Exono
S3 HRO SRC

Ref. 62 458 58

Metal free
Chemical specific

FEATURES & BENEFITS

- Microfibre upper.
- Poromax® 3D lining: breathable, absorbent and quick drying.
- **Resistant to contact with corrosive fluids and acids in low concentration.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-48

PU. NITRILE

Bacou Argono
S3 HRO SRC

Ref. 62 458 68

Metal free
Welding specific

FEATURES & BENEFITS

- Water-resistant full grain leather upper, Nomex® non-flammable stitching.
- Padded, leather lined spark-proof flap.
- Poromax® 3D lining: breathable, absorbent and quick drying.
- **Easy to put on/take off.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-48

PU. NITRILE

Bacou Bac'Run® Protector
S3 M HRO SRC

Ref. 62 458 77

Metatarsal
protection

FEATURES & BENEFITS

- Water-resistant leather upper.
- Reinforced protection over the toecap.
- Absorbent textile lining.
- Quick release buckle fastening.
- Flexible 100J metatarsal protection (M).

EN ISO 20345: 2011 S3 M HRO SRC

Sizes 38-48

PU. NITRILE

Bacou Freeroad
S3 HRO SRC

Ref. 62 458 67

FEATURES & BENEFITS

- Water-resistant leather
- Poromax® 3D lining: breathable, absorbent and quick drying.
- Specific sole concept for heat insulation and walking on warm grounds
- Specific for road manufacuring.

EN ISO 20345: 2011 S3 HRO HI SRC

Sizes 38-48

PU. NITRILE

Nit'Lite®

Shoes that withstand extreme temperatures

With the NIT'LITE range®, the teams have created the first nitril rubber shoe sole with an expanded cellular structure, for greater lightness and comfort.
The nitril sole offers excellent resistance to extreme temperatures (up to 300°C), to fuel and hydrolysis.
The comfort is unmatched thanks to the lightness and elasticity offered by NIT'LITE®.

Resistance to extreme temperatures: -30°C to + 300°C.

Good resistance to hot and humid conditions.

Resistance to oils, fuel and common chemicals.

SRC slip resistance according to the latest EN ISO 20345 standard.

Excellent abrasion resistance.

Lightness and flexibility thanks to a unique expanded cellular structure.

Nit'Lite®

Bacou Horalo
S1P HRO SRC

Ref. 62 134 03

Specific for foundry / welding

FEATURES & BENEFITS

- Black pigmented leather upper.
- Padding for ankle protection.
- Leather flap fastening, spark guard with 2 quick-release buckles.
- **Quick and easy to remove in the event of risk of burning.**
- **Outsole resistance up to 300°C.**

EN ISO 20345: 2011 S1P HRO SRC

Sizes 38-47

Bacou Hikano
S3 HRO SRC

Ref. 62 134 13

Specific for foundry / welding

FEATURES & BENEFITS

- Black pigmented water-resistant leather upper.
- Leather flap fastening, spark guard with 3 quick-release buckles.
- **Excellent protection against projections of incandescent material.**
- **Outsole resistance up to 300°C.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-47

Bacou Super Boot BK
S1P HRO SRC

Ref. 62 133 03

FEATURES & BENEFITS

- Black pigmented leather upper.
- Padded ankle collar for ankle protection.
- With anti-puncture midsole.
- **Outsole resistance up to 300°C.**

EN ISO 20345: 2011 S1P HRO SRC

Sizes 38-47

Nit'Lite®

Bacou Super Boot MF

S1P HRO SRC

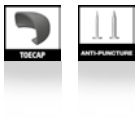
Ref. 62 133 53

FEATURES & BENEFITS

- Brown pigmented leather upper.
- Leather bellows.
- Padded ankle collar.
- **Outsole resistance up to 300°C.**

EN ISO 20345: 2011 S1P HRO SRC

Sizes 38-47



Bacou Maxi Boot

S3 HRO SRC

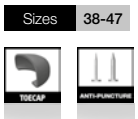
Ref. 62 135 03

FEATURES & BENEFITS

- Pigmented water-resistant leather upper.
- All leather ankle protection.
- **Resistant to fluid spillages.**
- **Outsole resistance up to 300°C.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-47



Bacou Training Lux

S3 HRO SRC

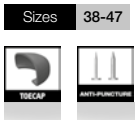
Ref. 62 137 03

FEATURES & BENEFITS

- Water-resistant black full grain leather upper.
- **Ideal for chemical industry and assembly work.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-47



Bacou Rigger

S3 HRO SRC

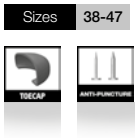
Ref. 62 139 53

FEATURES & BENEFITS

- Water-resistant full grain leather boot.
- Stitching resistant to heat and fire.
- Pull-on lugs.
- **Ideal for the metal industry.**
- **Resistant to fluid spillages.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 38-47



White range

Hygiene, comfort and grip

Honeywell teams have created a range dedicated to the needs of the food industry, catering and advanced technology. All models in the white range are manufactured with materials that resist to diluted chemicals and fatty substances. The design of the upper has been studied in order to restrict the proliferation of bacterial outbreaks and facilitate the evacuation of fluids.

Bacou Pro Clean

S2 SRC

Ref. 62 461 27

FEATURES & BENEFITS

- White microfibre upper for easy cleaning.
- No stitching on the forefoot to minimize sources of contamination.
- White & grey Bacou Original sole.
- **High slip resistance and durability for intensive usage.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-49

PU. 2D

Metal free

Bacou Pro Clean

S3 SRC

Ref. 62 461 28

- Same model with anti-puncture midsole.

EN ISO 20345: 2011 S3 SRC

Sizes 35-48

PU. 2D

Bacou Pro Clean Black

S2 SRC

Ref. 62 461 30

Metal free

FEATURES & BENEFITS

- Black microfibre upper for easy cleaning.
- No stitching on the forefoot to minimize sources of contamination.
- Bacou Original black sole.
- **High slip resistance and durability for intensive usage.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-48

PU. 2D

White range

Bacou Super Pro Clean
S2 SRC

Ref. 62 461 29

Metal free

FEATURES & BENEFITS

- White microfibre upper for easy cleaning.
- No stitching on the forefoot to minimize sources of contamination.
- White & grey Bacou Original sole.
- **Ensures good foot support.**

EN ISO 20345: 2011 S2 SRC

Sizes 35-48

PU. 2D

Bacou Mont Blanc
S3 SRC

Ref. 62 332 15

FEATURES & BENEFITS

- White leather upper with anti-bacterial treatment.
- No stitching on the forefoot to minimize sources of contamination.
- **Lightness and flexibilty.**

EN ISO 20345:2011 S3 SRC

Sizes 35-47

PU. 2D

Bacou Mont Blanc
S2 SRC

Ref. 62 332 16

- Same model without anti-puncture midsole.

EN ISO 20345: 2011 S2 SRC

PU. 2D

Bacou Super Mont Blanc
S2 SRC

Ref. 62 407 48

FEATURES & BENEFITS

- Anti-bacterial white leather upper.
- No stitching on the forefoot to minimize sources of contamination.
- **Lightness and flexibilty.**

EN ISO 20345:2011 S2 SRC

Sizes 35-47

PU. 2D

White range

Ladies

Bacou Lite

S1 SRC

Ref. 65 511 50

FEATURES & BENEFITS

- Perforated grain leather upper, with leather lining.
- PU sole.
- **Ideal in warm and dry environments.**

EN ISO 20345: 2011 S1 SRC

Sizes 35-42

Bacou White Labo

SB EA SRC

Ref. 65 515 00

FEATURES & BENEFITS

- Perforated full grain leather upper.
- PU sole.
- **Footwear is easy to put on/take off.**
- **Greater comfort due to leather lining.**

EN ISO 20345: 2011 SB EA SRC

Sizes 35-42

Bacou White Labo

OB EA SRC

Ref. 65 515 01

- Same model available without toecap.

EN ISO 20347: 2012 OB EA SRC

Stitched and cemented ranges

Strength, expertise and variety of choice.

The stitched and cemented collections offer a variety of choices both technologically and aesthetically. Stitched outsole assembly is recommended for the manufacture of sturdy and durable footwear, to be worn in all weather conditions, and designed for outdoor activities and harsh environments. It is used for making footwear with an advanced, practical and fashionable outdoor design.

Most of the stitched models incorporate the latest innovations in professional footwear:

- 200J non-metallic toecap.
- Anti-puncture non-metallic midsole.

They provide the user with greater comfort and safety all day long.

DOUBLE STITCHED ASSEMBLY TECHNOLOGY

The double stitched assembly manufacturing process provides wearers with the guarantee of a durable and comfortable shoe that adapts to any terrain and all weather conditions.

It provides improved foot hygiene through evacuation of perspiration.

The stitched and cemented models provide an answer to specific needs:

- Outdoor activities in difficult weather conditions.
- Managerial staff.
- Exclusive models for fire fighters.

Stitched and cemented range

Bacou Annapurna
S3 HRO SRC

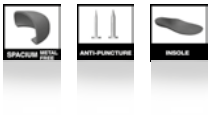
Ref. 65 303 16

FEATURES & BENEFITS

- Water-resistant full grain upper.
- Suede lining and cushioned ankle collar.
- **Ideal for use in humid environments and on unstable ground.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 39-47



Bacou Nebraska
S3 HRO SRC

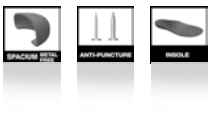
Ref. 65 303 31

FEATURES & BENEFITS

- Water-resistant black oiled leather upper.
- Padded ankle collar and bellows.
- Anti-abrasion toecap and rear reinforcement.
- **Ideal for humid environments.**

EN ISO 20345: 2011 S3 HRO SRC

Sizes 39-47



Bacou Maxi Boot
S1P HRO SRC

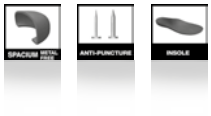
Ref. 62 001 11

FEATURES & BENEFITS

- Black grained leather upper.
- Lateral leather bellows.
- Poromax® lining: breathable, absorbent and quick drying.
- **Industry use in harsh environments.**
- **Specific model large sizes 49-50.**

EN ISO 20345: 2011 S1P HRO SRC

Sizes 49-50



Stitched and cemented range

Bacou Montana
S3 HRO CI SRC

Ref. 65 390 60

FEATURES & BENEFITS

Metal free

- Water-resistant oiled grain leather upper.
- Fleece lined 75% wool.
- Black Nitrile outsole.
- **Ideal for cold conditions and winter work.**

EN ISO 20345: 2011 S3 HRO CI SRC

Sizes 37-48

Bacou Epson
P1 SRA

Ref. 65 416 13

FEATURES & BENEFITS

- Full grain leather upper.
- Leather lining.
- 100J protective toecap.
- **Suitable for wear with uniforms and in service activities.**

EN ISO 20346: 2007 P1 SRA

Sizes 39-46

Bacou Neuilly
O2 SRA

Ref. 65 420 79

FEATURES & BENEFITS

- Black full grain leather moccasin.
- Leather lining and insole.
- **Ideal for service activities.**

EN ISO 20347: 2012 02 SRA

Sizes 39-46

AIRFIRE Firemen range

Swift and agile in the heat of the action

Professional footwear for fire-fighters

Honeywell has developed a new range of technical footwear specially designed to meet the needs of firefighters' during rescue and emergency work. By working with professional firefighters in their working environment, Honeywell has identified priority needs and working constraints and has developed a technical solution which meets their need for light, flexible and durable products (footwear) that react quickly in all situations.

AIRFIRE range complies with the EN 15090:2012 standard and are ASQUAL certified VEPSP branded.

Padded ergonomic collar and tongue
- Comfort and protection in all positions

Heel loop
- For easy fitting

Insole
- Removable
- Ergonomic
- Antibacterial
- Antistatic

Anti-puncture steel plate
- Optimum protection from risk of puncture by sharp and blunt objects

Polyurethane comfort layer
- Radiant heat resistant
- Resistant to hydrocarbons and acids at low concentration
- Very good shock absorption

Sympatex® Moisture Tech membrane
- Resists to liquid penetration
- Optimum perspiration treatment
- Fast-drying

Flame resistant laces
Central zipper
- For easy fitting
- Fast removal

Premium full grain leather
- Flame resistant
- Water repellent
- Oil repellent
- Abrasion resistant

Innovative over-cap, with no visible seams
- Increased abrasion resistance
- Flame resistant
- Resistant to fluids

200J Non metallic toe cap (F2A) or flexible 500 N (F1PA) soft toe
- Lightweight
- Thermal insulating
- Non-magnetic
- Protection against
- shocks and pressure

Nitrile Hi3 outsole
- Abrasion resistant
- Slip-resistant on all types of floors
- Resistant to hydrocarbons
- Heat resistant up to 300° C

Norm EN15090

Honeywell reminds you the meaning of the following pictograms on the upper portion of its boots and rangers (hot stamping):

F1PA :
F Compliant with all general requirements of the EN 15090 standard
1 Type 1 - Model made from leather and other materials
Suitable for station-based activities, general rescue operations and for extinguishing fires of plant-based combustibles.
P Puncture resistance
A Antistatic properties

F2A :
F Compliant with all general requirements of the EN 15090 standard
2 Type 2 - Model made from leather and other materials
Suitable for all fire rescue operations, extinguishing fires and preserving property in buildings, walled structures, vehicles, vessels, or other property affected by fire or an emergency situation
A Antistatic properties

CERTIFICATION ASQUAL

Honeywell started an ASQUAL certification procedure and has been awarded the VEPSP seal.

Honeywell's objective is to ensure consistent quality in the design, manufacture and distribution of its products in order to offer its customers a high-performance, reliable and durable quality of service, perfectly adapted to the purposes for which they were designed.

The ASQUAL certification includes a 2 years products guarantee from the date of first use.

Fire fighters

FIREPRO F2A

HI3 CI SRC

Ref. 62 462 80

New

Type II
Category F2A

FEATURES ANS BENEFITS

Recommended use: Extinguishing structural fires, Fire rescue operations, Preservation of property in fire or emergency situations, Prolonged use in the presence of fluids and in wet environments

- Membrane imper-respirante Sympatex® Moisture Tech
- Padded and ergonomic collar for improved comfort in any position

Sizes 38-48

FIRESTORM F2A

HI3 CI SRC

Ref. 62 462 81

New

Type II
Category F2A

FEATURES ANS BENEFITS

Recommended use: Extinguishing structural fires, Fire rescue operations, Preservation of property in fire or emergency situations, Prolonged use in the presence of fluids and in wet environments

- Waterproof and breathable Sympatex® Moisture Tech membrane
- Easy fitting laces

Sizes 38-48

FIREFAST F2A

HI3 CI SRC

Ref. 62 462 82

New

Type II
Category F2A

FEATURES ANS BENEFITS

Recommended use: Fire rescue operations, Relief operations, Extinguishing structural and vehicle fires, Preservation of property in fire and emergency situations

- 3D technical and innovative lining (Eucalyptus treated)
- Innovative materials

Sizes 38-48

FIRETRAIL F1PA

HI3 CI SRC

Ref. 62 462 83

New

Type I
Category F1PA

FEATURES ANS BENEFITS

Recommended use: General rescue operations on particularly steep environments, Station-based activities, Extinguishing of fires of plant-based combustibles

- Soft toe resistant to 500N, non metallic, flexible and light
- 3D technical and innovative lining (Eucalyptus treated)

Sizes 38-48

Accessories

Maximum comfort

Our range of accessories meets the needs of the most demanding customers: insoles, socks and over-socks, and laces available in individual packaging.

Bacou BAC'RUN insole

Ref. 60 003 21

FEATURES & BENEFITS

- Mono-density PU foam.
- Antistatic and ergonomic.
- Absorbs perspiration.

Sizes 35-47

Bacou X'Max Black insole

Ref. 60 003 50

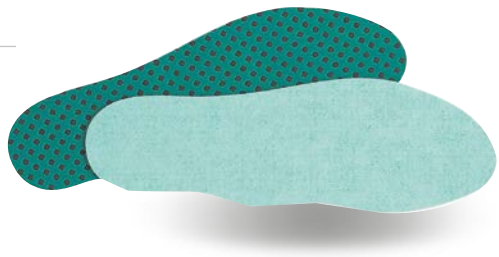
FEATURES & BENEFITS

- Dual density PU foam for intensive use.
- Anti-bacterial: easy maintenance.
- Antistatic in the body: maximum efficiency.
- Comfort cushion under the heel: prevents injury and muscle fatigue.
- Evacuation channels: ensure the circulation of air under the foot when walking.

Sizes 35-49

Bacou Image insole

Ref. 60 003 01



FEATURES & BENEFITS

- Pale green non-woven fibres.
- Honeycomb structure, non-allergenic.
- Impregnated with an active anti-fungal and anti-bacterial element.
- Reduces the breakdown of perspiration.
- Protects against the major germs.

Sizes 35-47

Bacou Fresh insole

Ref. 60 003 10

FEATURES & BENEFITS

- Blue non-woven fibres.
- Linear structure.
- Fine and perforated: promotes air circulation inside the shoe.
- Impregnated with an active anti-fungal and anti-bacterial element.
- Reduces the breakdown of perspiration.
- Protects against the major germs.

Sizes 38-47

Accessories

Bacou Laces

FEATURES & BENEFITS

- A wide range of laces, to meet all needs.
- Box of 25 pairs.

Ref.	Material	Colour	75 cm	90 cm	115 cm	120 cm	150 cm
60 006 04	Leather	Black			X		
60 006 01	Polyamide	Black	X				
60 006 07	Polyamide	Black		X			
60 006 08	Polyamide	Black				X	
60 006 09	Polyamide	Black					X
60 006 02	Polyamide	Grey		X			

Bacou Socks (Grey)

Ref. **60 004 10**

FEATURES & BENEFITS

- Ultra comfortable mid-height socks.
- Reinforced protection of the ankle, back and toecap.
- Made with a majority of Coolmax® technical fibres that keep feet cooler and drier than conventional textile materials (thermo-regulating effect) allowing perspiration to be drawn to the outside of the fabric.

Sizes **35-37 to 44-46**

Bacou Booties

Ref. **60 004 00**

FEATURES & BENEFITS

Slipper in three layers:
- Outer layer: cotton jersey and acrylic.
- Intermediate layer: isothermal foam.
- Inner layer: Sanitized® non-woven, polyviscose and acrylic.

- **Anti-fungal, anti-bacterial and anti-odour.**
- **Ideal in cold and wet work environments.**

Sizes **36-37 to 46-47**

Bacou Thermal Oversocks

Ref. **60 004 01**

FEATURES & BENEFITS

- Warm acrylic fibres on polyester jersey.
- Protects the foot and lower leg from cold.
- **Ideal in cold and wet work environments.**

Sizes **35-47**

OTTER® Active

Always A Safe Step Ahead

We have listened to you and your workers! The new OTTER® Active range is so amazing. Innovative technologies and materials provide high comfort and safety.

MORE THAN SAFETY FOOTWEAR

Are you looking for the perfect solution to avoid slipping, tripping and falling? You should really opt for the new OTTER® Active safety shoes. Combining comfort and safety, this lightweight footwear is a perfect companion throughout the day.

- **UTSTANDING PERFORMANCE. HIGH PRODUCTIVITY**
  OTTER® Active shoes increase your comfort with a modular insole system which can modify the space inside the shoe, to suit the width of your foot. This insole system is available in three sizes. These shoes will improve your productivity through comfort by optimal damping and ergonomic pivot points for a safe, faster and more flexible course of movements. Excellent breathability adds the final touch to maintain a healthy foot environment.

THIS FITTING SYSTEM WILL CHANGE YOUR WEARING COMFORT

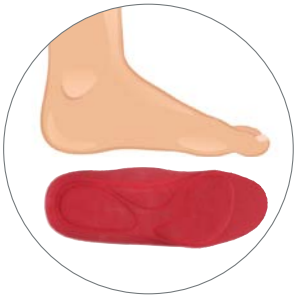
- **FITS EVERY SHAPE OF FOOT**
  The modular insole system customizes the inside the shoe so that it fits the foot perfectly. The perfect fit optimizes both wearing comfort and safety. You don´t feel the shoe just the safe foothold and unrestricted mobility.

INSOLE 75011 FOR MEDIUM / NORMAL FEET

Standard insole: all articles will be delivered with this insole

INSOLE 75012 FOR BROAD / WIDE FEET

INSOLE 75010 FOR SLIM / THIN FEET



Insoles for individual adjustment can be ordered as an accessory

> *The new range from OTTER SCHUTZ is so fantastic and the customers appreciate this a lot. Because it doesn't feel like you are wearing a safety shoe.*

Insoles Certified for all safety shoes starting with article number 75-.

FEATURES & BENEFITS

- Open cell foams offering high breathability
- Excellent moisture absorption to provide a dry and better shoe climate
- Long-term cushion comfort and high durability
- Completely washable at 30 °C
- Keeps its properties even after washing
- High conductivity and is ESD approved

Sizes 37-48

OTTER®Active

ESD approved
Prevents electrostatic charging and discharging

DGUV 112-191 (BGR 191)
Certified for orthopedic insoles (requirement for Germany and Austria)

Plastic toe cap
Shoe completely metal free, antimagnetic

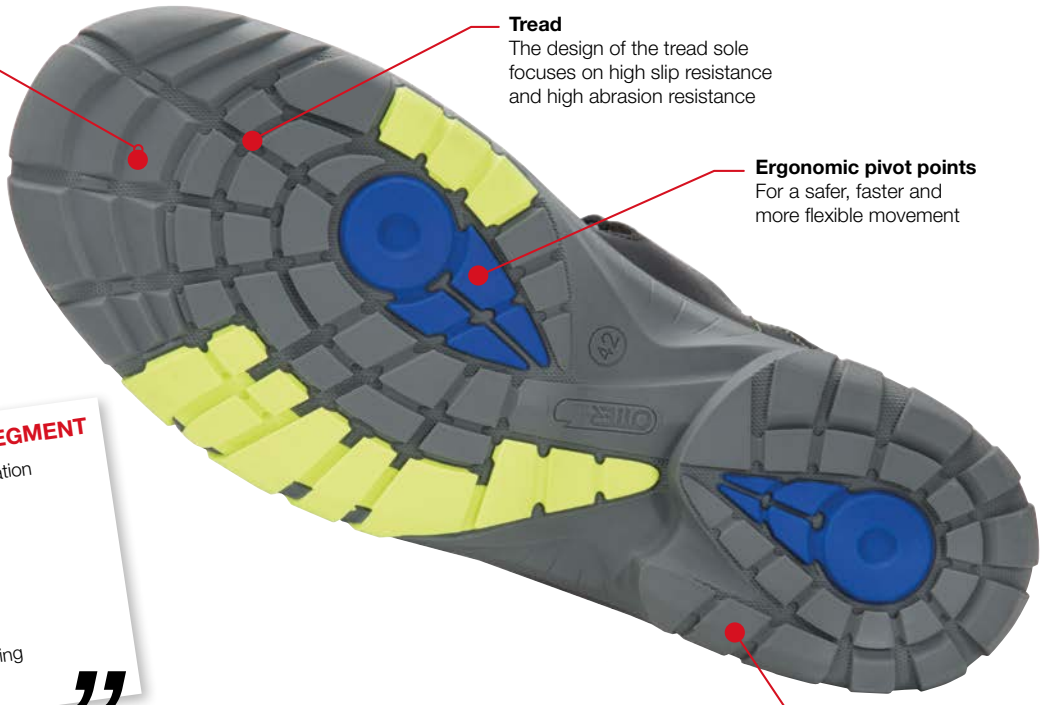
Insole fitting system
Customized modification of volume inside the shoe by three sized insoles

Antipuncture midsole
Light and flexible it protects the whole surface of the foot

Scuff cap
For a safe, faster and more flexible sequence of movements. Relieves ligaments and joints

TPU-PU-sole
High tear resistance, excellent flexing durability, high abrasion resistance, oil and petrol resistant and temperature resistant up to 120°C (for a short time)

Tread
The design of the tread sole focuses on high slip resistance and high abrasion resistance



Ergonomic pivot points
For a safer, faster and more flexible movement

Heel
The marked heel provides safe foothold, for example climbing ladders

TARGET MARKET / SEGMENT

- Logistics and transportation
- Maintenance
- Airports
- Parcel service
- Electrical engineering
- Warehouses
- Automotive
- Mechanical engineering

This is only a selection of applications, there are many more. Please note that requirements vary depending on the fields of application that need to be determined by hazard analysis. If there are questions or you did not find your application, contact us. We would be happy to help you.

OTTER® Active Premium

75561-524
S3 SRC

New

Metal free

FEATURES & BENEFITS

- Upper material of high-quality pull-up cowhide leather
- Premium textile lining
- TPU-PU sole
- TPU scuff cap
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S3 SRC

Sizes 37-48

75511-524
S3 SRC

New

Metal free

FEATURES & BENEFITS

- Upper material of high-quality pull-up cowhide leather
- Premium textile lining
- TPU-PU sole
- TPU scuff cap
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S3 SRC

Sizes 37-48

75515-524
S1P SRC

New

Metal free

FEATURES & BENEFITS

- Upper material of high-quality pull-up cowhide leather
- Premium textile lining
- TPU-PU sole
- TPU scuff cap
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S1P SRC

Sizes 37-48

All models of OTTER® Active range will be delivered with insole 75011 as standard. Insoles 75010 and 75012 are available as accessories on request.

OTTER® Active New Basics

75361-517
S3 SRC

New

Metal-free and leather-free

FEATURES & BENEFITS

- Upper material of high-quality microfaser
- Textile lining
- TPU-PU sole
- PU-coated textile material to protect the front
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S3 SRC

Sizes 37-48

75311-517
S3 SRC

New

Metal-free and leather-free

FEATURES & BENEFITS

- Upper material of high-quality microfaser
- Textile lining
- TPU-PU sole
- PU-coated textile material to protect the front
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S3 SRC

Sizes 37-48

75315-517
S1P SRC

New

Metal-free and leather-free

FEATURES & BENEFITS

- Upper material of high-quality microfaser
- Textile lining
- TPU-PU sole
- PU-coated textile material to protect the front
- Insole 75011*
- Textile anti-perforation midsole

EN ISO 20345 S1P SRC

Sizes 37-48

All models of OTTER® Active range will be delivered with insole 75011 as standard. Insoles 75010 and 75012 are available as accessories on request.

Premium Protect

Premium textile lining tested for harmful substances according Oeko-Tex Standard 100, very breathable.

Padded comfort collar and tongue.

Innovative S2 upper material, 60 minutes water resistant, very breathable.

TPU heel protection OTTER Protect.

Reflective elements offering high visibility.

Nitrile outsole, excellent slip resistance, high resistance against abrasion, resistant to oil-, benzin and many acids and leaches, resistant, high flexing durability, high cut resistance, temperature resistance up to +300°C (short time).

ESD certified according EN 61340-5-1.

High quality water-repellent nubuck leather.

Self cleaning profile.

Padded edge of toe cap offers high comfort.

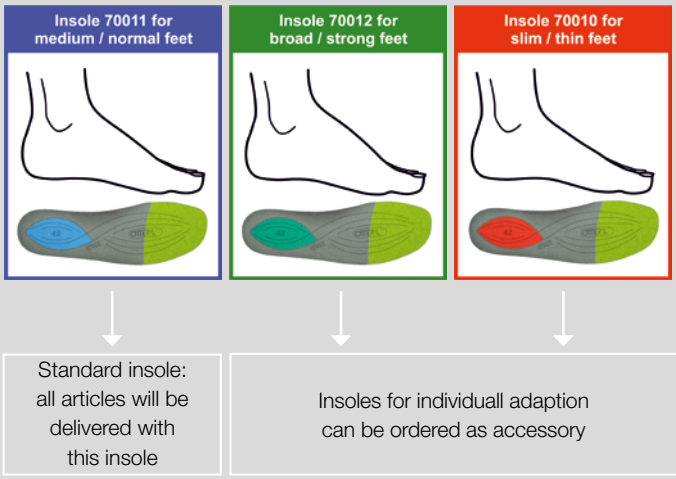
OrthoLite® modular insole system with full length insoles, washable (more details on next slides).

Light Density PU midsole, light in weight, offering shock absorption not only in the heel but on the whole length of the shoe.

Scuff cap protecting against abrasion of upper material.

Premium Protect

Ortholite® modular insole fitting system
possibility to modify the volume inside the shoe in 3 steps
supports the individual adaption to ones feet for a perfect fit
optimizes the wearing comfort and acceptance



71001-307
S3 HRO CR SRC

FEATURES & BENEFITS

- Upper material high quality pull up leather.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11.

EN ISO 20345 S3 HRO CR SRC

Sizes 36-48

STEEL · PU. NITRILE · ESD

71051-307
S3 HRO CR SRC

FEATURES & BENEFITS

- Upper material high quality pull up leather.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11

EN ISO 20345 S3 HRO CR SRC

Sizes 36-48

STEEL · PU. NITRILE · ESD

Premium Protect

71003-326
S2 HRO SRC

FEATURES & BENEFITS

- Upper material nubuck leather and S2 compliant textile.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11.

EN ISO 20345 S2 HRO SRC

Sizes 36-48

STEEL INSOLE PU. NITRILE ESD

71053-326
S2 HRO SRC

FEATURES & BENEFITS

- Upper material nubuck leather and S2 compliant textile.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11.

EN ISO 20345 S2 HRO SRC

Sizes 36-48

STEEL INSOLE PU. NITRILE ESD

71201-458
S2 HRO SRC

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11

EN ISO 20345 S2 HRO SRC

Sizes 36-48

LIGHTWEIGHT STEEL INSOLE PU. NITRILE ESD

Individual printed CORDURA® fabric
More information next page.

71005-342
S1 HRO SRC

FEATURES & BENEFITS

- Upper material nubuck.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11

EN ISO 20345 S1 HRO SRC

Sizes 36-48

STEEL INSOLE PU. NITRILE ESD

Premium Protect

71062-378
S2 HRO SRC

FEATURES & BENEFITS

- Upper material nubuck leather and S2 compliant CORDURA® fabric.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11.

EN ISO 20345 S2 HRO SRC

Sizes 36-48

STEEL INSOLE PU. NITRILE ESD

71012-378
S2 HRO SRC

FEATURES & BENEFITS

- Upper material nubuck leather and S2 compliant CORDURA® fabric.
- Premium textile lining.
- Nitrile/PU Sole.
- Width 11.

EN ISO 20345 S2 HRO SRC

Sizes 36-48

STEEL INSOLE PU. NITRILE ESD

Individual printed CORDURA® fabric

CORDURA FABRIC

Your personal safety shoe

Discover the new highlight in the safety shoe sector!

Safety shoes made of printed S2 resistant CORDURA® fabric.

Thanks to this technology, many seams that are otherwise required for the upper construction are rendered superfluous while it allows the individualization of the design even in attractive batch sizes.

"Safety as Corporate-Design"

Your company, your design, your shoe –
safety shoes are as attractive as never before

Design examples:

Premium Sport

56502-412
S1 SRA

FEATURES & BENEFITS

- Upper material breathable textile and suede leather.
- Premium textile lining.
- Vibram® Nitrile/PU Sole.
- Width: 11.

EN ISO 20345 S1 SRA

Sizes 38-48

STEEL INSOLE LIGHTWEIGHT

Vibram PU. NITRILE

56512-421
S2 SRA

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric and nubuck leather.
- Premium textile lining.
- Vibram® Nitrile/PU Sole.
- Width: 11.

EN ISO 20345 S2 SRA

S3 version available on request

Sizes 38-48

STEEL INSOLE LIGHTWEIGHT

Vibram PU. NITRILE

56562-421
S2 SRA

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric and nubuck leather.
- Premium textile lining.
- Vibram® Nitrile/PU Sole.
- Width: 11.

EN ISO 20345 S2 SRA

S3 version available on request

Sizes 38-48

STEEL INSOLE LIGHTWEIGHT

Vibram PU. NITRILE

Premium Sport

55413-001
S3 SRC

Metal free

FEATURES & BENEFITS

- Upper material high quality leather.
- Breathable textile lining.
- TPU-scuff cap to protect the upper.
- Width 11.
- Non metallic toecap.
- Textile penetration protection insole board.

EN ISO 20345 S3 SRC

Sizes 36-48

55453-001
S2 SRC

FEATURES & BENEFITS

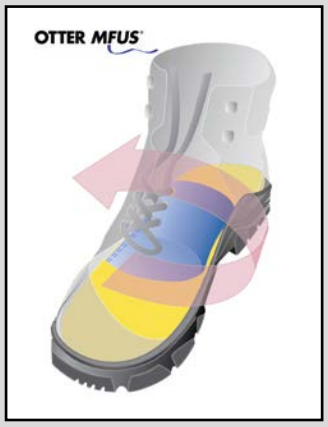
- Upper material high quality leather.
- Breathable textile lining.
- TPU-scuff cap to protect the upper.
- Width 11.
- Non metallic toecap.

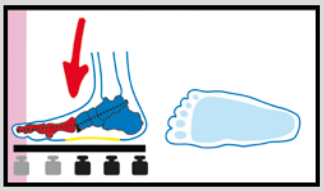
EN ISO 20345 S2 SRC

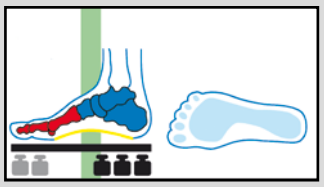
Sizes 36-48

Premium MFUS®

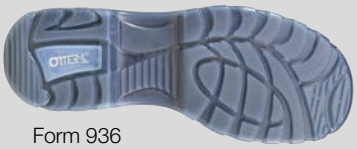
Special benefits:
The patented OTTER MFUS® works as a «metatarsal bandage». It is based on a textile band which is wrapped around the foot. The band, which is sewn securely at one end to the insole, is wrapped under the foot and then fastened at the other end through a special lacing system.







- Durable high flexible **PU/TPU outsole**, SRC



Form 936

Form 984/986/988

- All models S2+S3 **ESD certified** according 61340-5-1

98528-770
S1 SRC

FEATURES & BENEFITS

- Upper material nubuck leather.
- Premium textile lining.
- TPU/PU sole.
- Width: flexible up to 11.
- MFUS® -System.

EN ISO 20345 S1 SRC

Sizes 38-48

Premium MFUS®

93645-778
S3 SRC

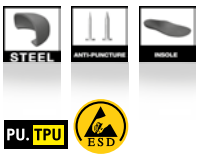
FEATURES & BENEFITS

- Upper material nubuck leather and S2 textile.
- Premium textile lining.
- TPU/PU sole.
- Width: flexible up to 12.
- MFUS® - System.

EN ISO 20345 S3 SRC

Available in S2: 93620-778

Sizes 38-49



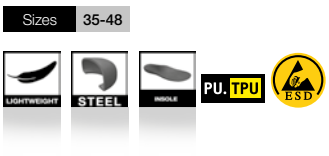
98414-577
S2 SRC

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- TPU/PU sole.
- MFUS® - System.
- Size: 35 – 37 width flexible up to 9.
- Size: 38 – 48 width flexible up to 11.

EN ISO 20345 S2 SRC

Sizes 35-48



93695-778
S3 SRC

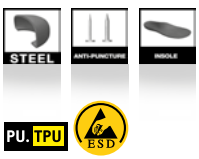
FEATURES & BENEFITS

- Upper material nubuck leather and S2 textile.
- Premium textile lining.
- TPU/PU sole.
- Width: flexible up to 12.
- MFUS® - System.

EN ISO 20345 S3 SRC

Available in S2: 93670-778

Sizes 38-49

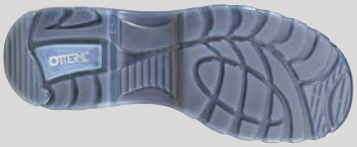


Premium CORDURA® fabric

Special benefits:
CORDURA® fabric, high durability S2 upper material, 60 min. water resistant, very breathable, significant weight reduction compared to leather.

S2 models ESD certified according 61340-5-1

Durable high flexible **PU/TPU outsole**, SRC certified



Form 936

Form 984/986/988

98432-577
S3 SRC

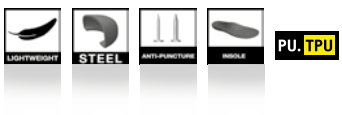
FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- TPU/PU sole.
- Width: 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S3 SRC

Available in S2 ESD version: 98412-577

Sizes 35-48



Premium Cordura® fabric

98482-577
S3 SRC

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- TPU/PU sole.
- Width: 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S3 SRC

Available in S2 ESD version: 98462-577

Sizes 35-48

LIGHTWEIGHT · STEEL · ANTI-PUNCTURE · INSOLE · PU. TPU

93712-517
S2 SRC

FEATURES & BENEFITS

- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- TPU/PU sole.
- Width: 12 (also available in width 10 & 11).

EN ISO 20345 S2 SRC

Sizes 38-49

LIGHTWEIGHT · STEEL · INSOLE · PU. TPU · ESD

93762-517
S2 SRC

FEATURES & BENEFITS

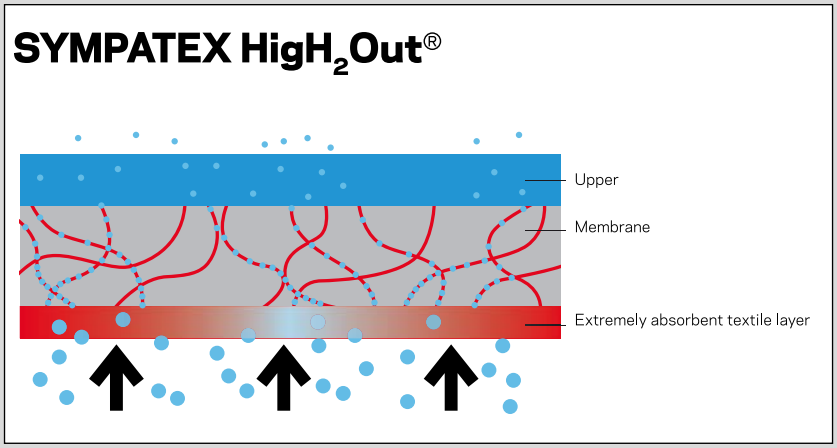
- Upper material S2 compliant CORDURA® fabric.
- Premium textile lining.
- TPU/PU sole.
- Width: 12 (only width 12).

EN ISO 20345 S2 SRC

Sizes 38-49

LIGHTWEIGHT · STEEL · INSOLE · PU. TPU · ESD

Premium SympaTex®



Advantages of SympaTex® HigH$_2$Out®

- Natural foot temperature control.
- In the warmth of activity perspiration is absorbed and evaporated.
- Pleasant cooling effect.
- No perspiration is left on the skin to chill resting feet.
- A comfortable skin temperature is maintained: perfect protection in cold weather.
- SympaTex® HigH$_2$Out® is 100 % waterproof.

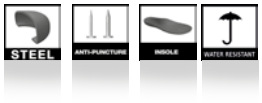
93683-338
S3 WR SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- SympaTex® HigH$_2$Out®.
- TPU/PU Sole.
- TPU scuff cap.
- Width: 12.

EN ISO 20345 S3 WR SRC

Sizes 38-49



PU. TPU SympaTex

Premium SympaTex®

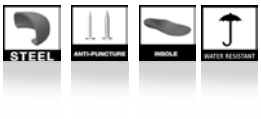
93681-595
S3 WR SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- SympaTex® HigH$_2$Out®.
- TPU/PU Sole.
- Width: 12.

EN ISO 20345 S3 WR SRC

Sizes 38-49



PU. TPU SympaTex®

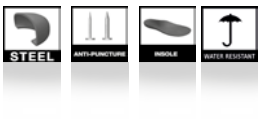
93665-547
S3 WR SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- SympaTex® HigH$_2$ Out®.
- TPU/PU Sole.
- Width: 12.

EN ISO 20345 S3 WR SRC

Sizes 38-49



PU. TPU SympaTex®

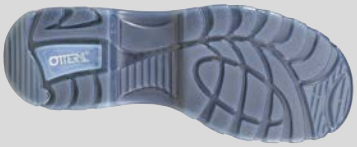
New Basics Sport

Special benefits:
ESD stands for ElectroStaticDischarge. Many products in the OTTER range are ESD certified and have dissipating capabilities according to EN 61340-5-1. The contact resistance ranges between 1 x 10^5 Ω to 3,5 x 10^7 Ω (= 100 Kilo Ω to 35 Mega Ω) which is in the lower anti-static area.

ESD certified safety footwear offer the wearer an additional application in electrostatically sensitive areas, by diminishing any electrostatic charge through appropriate dissipation. They are used frequently, for example, in the handling of electronic components to eliminate damage by static electricity.

- Unisex models – offer for women and men in good price-quality ratio

- Durable high flexible **PU/TPU outsole**, SRC certified



Form 936

Form 984/986/988

98406-587
S1 SRC

FEATURES & BENEFITS

- Upper material nubuck leather and textile.
- Textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S1 SRC

Sizes 35-48

New Basics Sport

98406-678
S1 SRC

FEATURES & BENEFITS

- Upper material suede leather and textile.
- Textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S1 SRC

Sizes 35-48

STEEL INSOLE PU. TPU ESD

98456-678
S1 SRC

FEATURES & BENEFITS

- Upper material suede leather and textile.
- Textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S1 SRC

Sizes 35-48

STEEL INSOLE PU. TPU ESD

New Basics Comfort

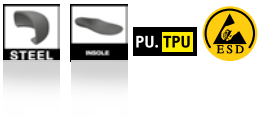
98402-554
S2 SRC

FEATURES & BENEFITS

- Upper material nubuck and suede leather.
- Textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S2 SRC

Sizes 35-48



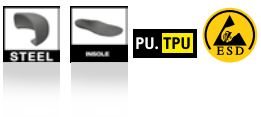
98405-559
S1 SRC

FEATURES & BENEFITS

- Upper material nubuck and suede leather.
- Textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 48).

EN ISO 20345 S1 SRC

Sizes 35-48

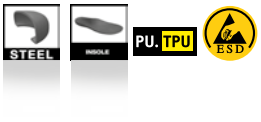


98445-523
S1 SRC

FEATURES & BENEFITS

- Upper material nubuck and suede leather.
- Premium textile lining.
- TPU/PU sole.
- Width 9 (35-37), width 11 (38-48).
- EN ISO 20345 S1 SRC

Sizes 35-48



New Basics Black Line

93623-497
S3 SRC

FEATURES & BENEFITS

- Upper material suede leather.
- Premium textile lining.
- TPU/PU sole.
- Width 9 (36 - 37), Width 12 (38 - 49).

EN ISO 20345 S3 SRC

Available in S2 ESD version: 93603-497

Sizes 36-49

STEEL | ANTI-PUNCTURE | INSOLE | PU. TPU

93673-497
S3 SRC

FEATURES & BENEFITS

- Upper material suede leather.
- Premium textile lining.
- TPU/PU sole.
- Width 9 (36 - 37), Width 12 (38 - 49).

EN ISO 20345 S3 SRC

Available in S2 ESD version: 93653-497

Sizes 36-49

STEEL | ANTI-PUNCTURE | INSOLE | PU. TPU

93629-247
S3 SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Textile lining.
- TPU/PU sole.
- Width 12.

EN ISO 20345 S3 HRO CR SRC

Available in S2: 93609-247

Sizes 36-49

STEEL | ANTI-PUNCTURE | INSOLE | PU. TPU

93669-247
S3 SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Textile lining.
- TPU/PU sole.
- Width 12.

EN ISO 20345 S3 HRO CR SRC

Available in S2: 93659-247

Sizes 36-49

STEEL | ANTI-PUNCTURE | INSOLE | PU. TPU

Otter feminin

56802-317
S1 SRA

FEATURES & BENEFITS

- Upper material textile and nubuck leather.
- Premium textile lining.
- Vibram® Nitrile/PU Sole.
- Width: 11.

EN ISO 20345 S1 SRA

Sizes 35-42

98804-682
S2 SRC

FEATURES & BENEFITS

- Upper material nubuck leather.
- Premium textile lining.
- TPU/PU sole.
- Width 9 (35 - 37), Width 11 (38 - 42).

EN ISO 20345 S2 SRC

Sizes 35-42

Specific Overcap

93619-448
S3 SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Premium textile lining.
- TPU/PU Sole.
- TPU scuff cap.
- Width: 12.

EN ISO 20345 S3 SRC

Sizes 38-49

93679-448
S3 SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Premium textile lining.
- TPU/PU Sole.
- TPU scuff cap.
- Width: 12.

EN ISO 20345 S3 SRC

Sizes 38-49

Specific Winter

93680-613
S3 CI WR SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Moisture absorbent textile lining and hollow fibre cotton wool offering cold isolation.
- TPU/PU Sole.
- Width: 12.
- Textile penetration protection insole board.

EN ISO 20345 S3 CI WR SRC

Sizes 36-49

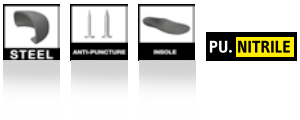
71093-336
S3 HRO CI CR SRC

FEATURES & BENEFITS

- Upper material high quality Pull-Up leather.
- Warm fleecy lining.
- Nitrile/PU Sole.
- Width: 11.

EN ISO 20345 S3 HRO CI CR SRC

Sizes 36-48



Specific Nitril

99001-659
S3 SRC

99051-659
S3 SRC

FEATURES & BENEFITS

- Upper material full grain leather.
- Premium textile lining.
- Nitrile Sole.
- Width: 11.

EN ISO 20345 S3 SRC

Sizes 50-51

Specific White

60222-040
S2 SRC

FEATURES & BENEFITS

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.

EN ISO 20345 S2 SRC

Sizes 35-50

60717-120
S1 SRC

FEATURES & BENEFITS

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.

EN ISO 20345 S1 SRC

Sizes 35-47

60229-120
S2 SRC

FEATURES & BENEFITS

Metal free

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.
- Non metallic toe cap.

EN ISO 20345 S2 SRC

Sizes 35-47

Specific White

60322-120
S2 SRC

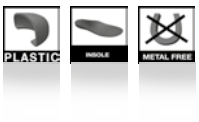
FEATURES & BENEFITS

Metal free

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.
- Non metallic toe cap.

EN ISO 20345 S2 SRC

Sizes 35-47



60239-140
S3 SRC

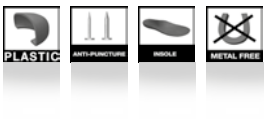
FEATURES & BENEFITS

Metal free

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.
- Non metallic toecap.
- Textile penetration protection insole board.

EN ISO 20345 S3 SRC

Sizes 35-47



60713-010
SB A E SRC

FEATURES & BENEFITS

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.

EN ISO 20345 SB A E SRC

Available in EN ISO 20347
OB A E FO SRC: 60703-010

Sizes 35-50

60711-010
SB A E SRC

FEATURES & BENEFITS

- Upper material washable microfibre.
- Textile lining.
- Single density PU sole.
- Width 11.

EN ISO 20345 SB A E SRC

Available in EN ISO 20347
OB A E FO SRC: 60701-010

Sizes 35-50

Lockout / Tagout

Keep equipment from being set in motion & endangering workers

Lockout / Tagout

Most industrial accidents are caused by the unexpected energization or start up of machines or equipment or by the uncontrolled release of energy.

Many of these accidents can be prevented by proper Lockout / Tagout procedures.

Lockout / Tagout are designed to prevent needless deaths and serious injuries to service and maintenance personnel by controlling unauthorized or accidental use of energy.

To perform service and maintenance work on industrial equipment safely, you must understand the importance of energy control and Lockout / Tagout. You must also know how to apply energy isolation and use Lockout / Tagout.

Lockout panels and stations p. 476

Lockouts valves & boxes p. 477

Lockouts safety hasps p. 478

WHAT IS Lockout / TAGOUT?
A Lockout is a method of keeping equipment from being set in motion and endangering workers.

- A disconnect switch, circuit breaker, valve or other energy isolation mechanism is put in the safe or off position.
- A device is often placed over the energy-isolating mechanism to hold it in the safe position.

This is where NORTH Lockout / Tagout products are essential:

- A lock is attached so that the equipment can't be energized. In a TAGOUT, the energy-isolating device is placed in the safe position and a written warning is attached to it. All lockout and tagout materials are supplied by the employer.

Each device must be:

- Durable, to withstand wear.
- Substantial, so it won't come off easily.
- Capable of identifying the person who applied it.

Many companies issue each worker authorized to apply Lockout / Tagout their own personal lock imprinted with his name.

WHEN SHOULD YOU Lockout / Tagout?
Lockout / Tagout is necessary whenever you are performing service or maintenance in proximity to a machine where you could be injured by:

- Unexpected start up of the equipment.
- Release of stored energy.

Two situations are most likely to need Lockout / Tagout:

- When you must remove or bypass a guard or other safety device.
- When you must place any part of your body where you could be caught by moving machinery.

Some jobs for which Lockout / Tagout should be used are:

- Repairing electrical circuits.
- Cleaning or oiling machinery with moving parts.
- Clearing jammed mechanisms.

Each employer use Lockout / Tagout or both. It's your responsibility to follow whichever system has been chosen for your workplace.

Locks and Tags by themselves do not de-energize equipment. Attach them only after the machinery has been isolated from its energy sources.

Lockout panels and stations

LSE-101
Ref. 938419

LSE-102
Ref. 938420

LSE-103
Ref. 938421

LSE-104
Ref. 938422

LSE-105
Ref. 938423

LSE-106
Ref. 938424

Ref.	Products	Description
938419	LSE-101	Panel for lockout and tagout (panel only) - Small
938420	LSE-102	Panel for lockout and tagout (panel only) - Large
938421	LSE-103	Station for lockout systems (station only) - 4 points
938422	LSE-104	Station for lockout systems (station only) - 5 points
938423	LSE-105	Station for lockout systems (station only) - 11points
938424	LSE-106	Station for lockout systems (station only) - 22 points

Lockouts valves & boxes

VS series

Encloses the whole valve, so it can no longer open or be closed.

CHARACTERISTICS & BENEFITS

The V-SAFE valve cover consists of two flattened half moons that completely cover the valve wheel.

- Made of strong Polypropylene.
- Fully dielectric.
- Highly resistant to cracking and abrasion.
- Resistant to extreme temperature changes.

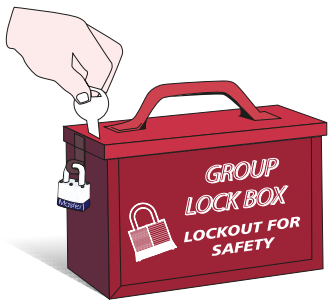
Available in various colours and diameters.
1=red; 2=green; 3=yellow; 4=blue.

Ref.	Description
938408.1	VS02 - ø to 2,5”
938408.4	VS02 - ø to 2,5”
938404.1	VS04 - ø 2,5 to 5”
938404.2	VS04 - ø 2,5 to 5”

Ref.	Description
938405.1	VS06 - ø 5 to 6,5”
938405.2	VS06 - ø 5 to 6,5”
938405.3	VS06 - ø 5 to 6,5”
938406.1	VS09 - ø 6,5 to 10”

GBL01

Ref. 938425



GLB03

Ref. 938420

Cards - 25 pc

Ref. 638400

Product	Description
938425	GBL01 - Lock boxes - cards.
938420	GLB03 - Lock boxes - cards.
638400	Cards - 25 pc

Lockouts safety hasps

MS01

Ref. 938403.1

CHARACTERISTICS & BENEFITS

- Made of Heavy Duty Nylon.
- Bright Red Color for Hi-Visibility.
- Unbreakable.
- Heat & Cold Resistant.
- Highly Flexible.
- Holds 6 Padlocks.
- Dielectric.

MS-86

Ref. 938413.1

CHARACTERISTICS & BENEFITS

- metal lockout hasp.
- Will accept 6 padlocks up to 3/8"" diameter.
- Shackles with 6 lockout tags.
- Dielectric.

Ref.	Products	Description
938413.1	MS-86	Metal - 11 cm

666

Ref. 938412

CHARACTERISTICS & BENEFITS

- Metal lockout hasp.
- Will accept 6 padlocks up to 3/8"" diameter.
- Shackles with 6 lockout tags.

Ref.	Products	Description
938413	666RD	Metal - 13 cm
938412	666	Metal - 13 cm

666RD

Ref. 938413

CHARACTERISTICS & BENEFITS

- Metal lockout hasp.
- Will accept 6 padlocks up to 3/8"" diameter.
- Shackles with 6 lockout tags.

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