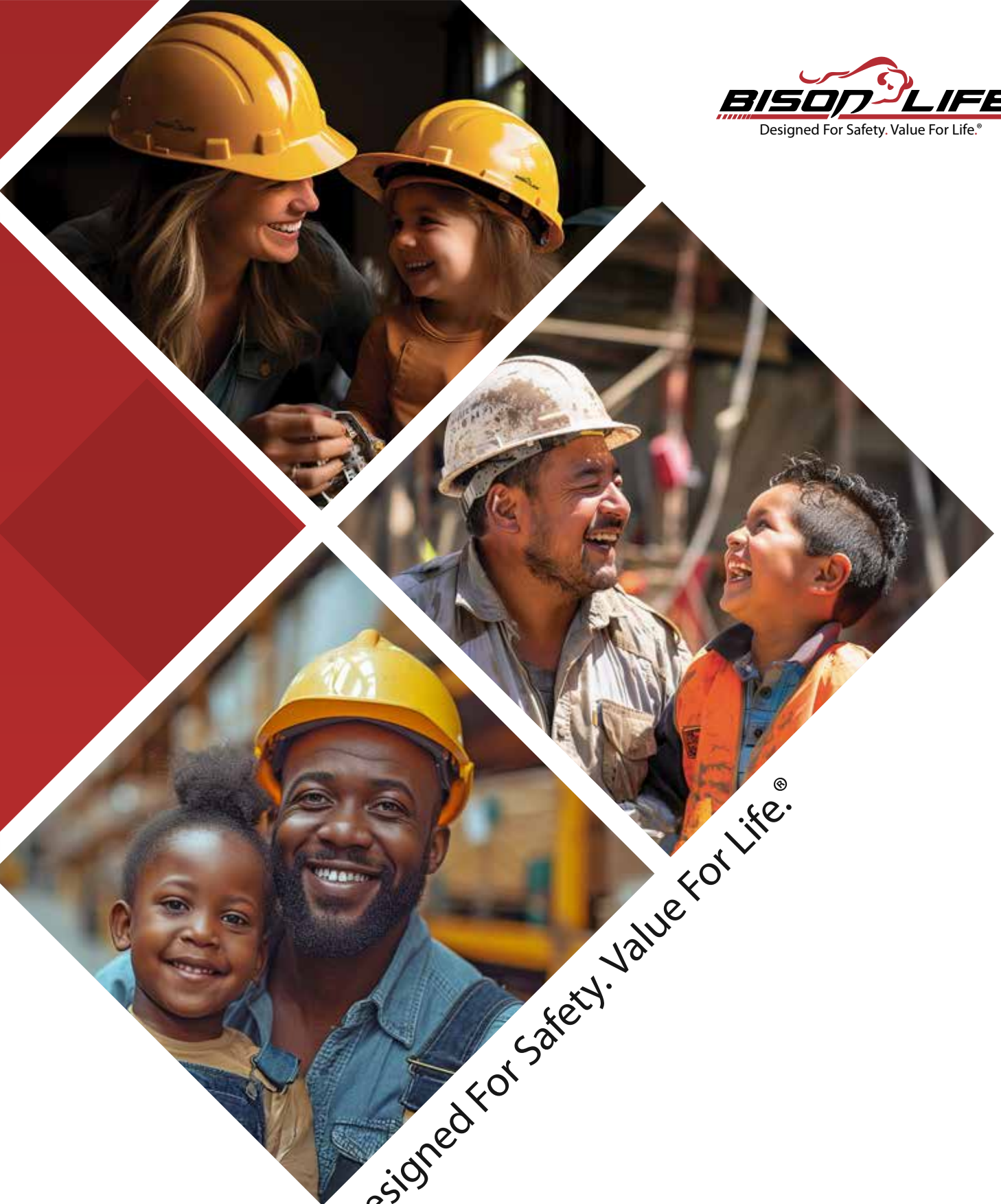




Designed For Safety. Value For Life.[®]

INDUSTRIAL SAFETY SOLUTIONS



Head
Protection



Eye & Face
Protection



Hearing
Protection



Respiratory
Protection



Welding
Shield



Hand
Protection



Protective
Clothing



Fall
Protection



Spill Control
Solutions

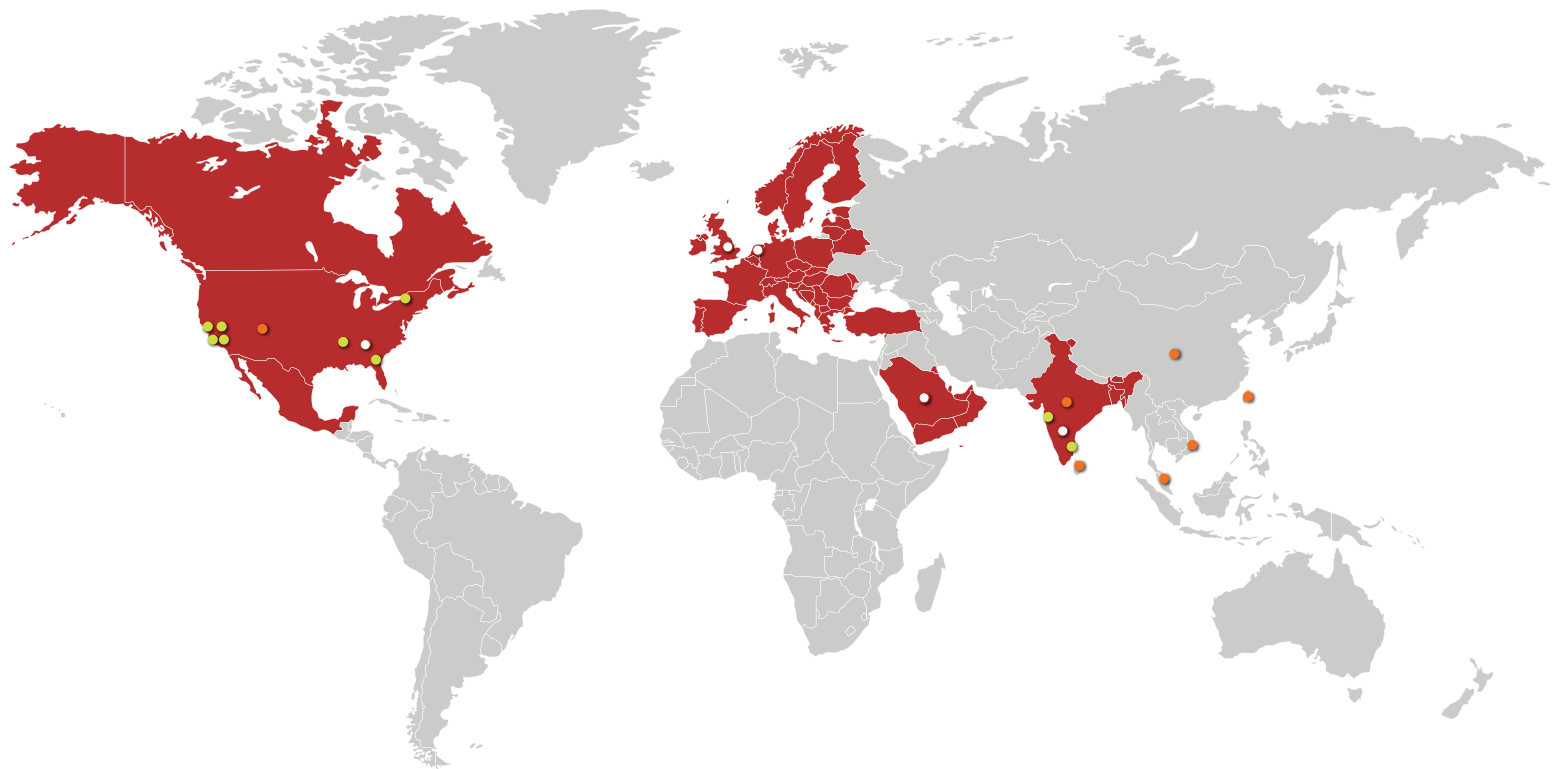


Ergonomics
Solutions

History

In 2009, during the height of a global recession an idea was born on an extremely cold winter night in Wyoming. Drawing inspiration from the resilience of a herd of bison huddled in the cold, the founder had a vision to build an organization that could stand the test of time. From humble beginnings starting with 6 products the company has grown to several thousand products shipping to customers globally. Looking forward, the organization continues to grow by becoming a one-stop shop for the ever evolving needs of various industries and sectors worldwide. Designed for Safety, Value for Life®

WORLD OF BISON LIFE



● Global Foot Print

○ Headquarters

Global Corporate

Bison Life® USA, Alpharetta, GA

Regional

Bison Life® India, Bengaluru | Bison Life® UK, London

Bison Life® Europe, Netherland | Bison Life® UAE, Middle East

● Manufacturing

USA | India | Taiwan | Malaysia | Sri Lanka | PRC

● Warehouse

Colton, California | Little Rock, Arkansas
Corona, California | Morristown, New Jersey
Forest Park, Georgia | Laverne, California
Ontario, California | Bhiwandi, Mumbai
Sholavaram, Chennai

Total Sustainability Solution

Project Gigaton

A strategic partnership with Walmart Sustainability



1 MW

Solar panels installed through 2.5 Acres



130 M

Bison Life[®] has saved more than 130 million plastic bottles from going into landfills annually.



200 MW

100 Windmills of 2 MW installed



Recycled Product

Green Seal-certified Stripping and Cleaning pads



30,000 MT

30,000 Metric tons of CO₂e is reduced through Water treatment plant installation



Packaging

BRICK Specialty Packing saves space Up to 75% more cases per cube, pallet, container, bin. Easier inventory count and easier shipping/handling



Plastic Bottles to Gloves



Biodegradable Gloves



Biodegradable Earplugs



End-of-life Li-ion Waste Battery Management System



Recyclable Safety Glasses

RECYCLED GLOVES

PLASTIC BOTTLES TO HAND GLOVES



Yarn is used to
make gloves



Plastic bottle



Processed
to tiny chips



Chips melted
to pellets



Pellets are
spun into yarn

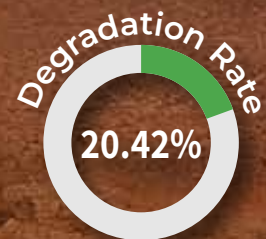


BIODEGRADABLE EARPLUGS

ENVIRONMENT FRIENDLY



Day 1



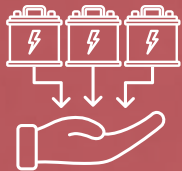
Day 45

3R

Recycle
Renew
Reuse

TM

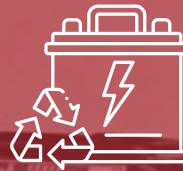
END-OF-LIFE LI-ION BATTERY WASTE MANAGEMENT SYSTEM



Collection



Consolidation



Recycling



Renewal



COMMUNITY AWARENESS & OUTREACH PROGRAM FOR E-WASTE MANAGEMENT

Our Brands



Industrial Safety

Safe Handler® is a trusted brand dedicated to excellence in industrial safety. We offer a comprehensive range of personal safety equipments (PPE's) to fulfill every industrial safety requirement.



Industrial Cleaning

Kleen Handler® is a dedicated brand committed to excellence in industrial cleaning. We offer a comprehensive range of disposable, reusable, and biodegradable products to fulfill every industrial cleaning needs.



Food Safety Products

At Kleen Chef®, we are dedicated to achieving food safety excellence. We offer a full line of high-quality kitchen safety gear that sets the industry standard for comfortable and reliable protection in the workplace and to meet all your food safety needs.



Household Protection

Discover the excellence in household products with the Popular Life® brand. We cater to every household need, offering a wide range of disposable, reusable, and biodegradable products.



Healthcare Protection

The Zayaan Health® brand is dedicated to upholding healthcare excellence. Our comprehensive range encompasses disposable, reusable, and biodegradable options to cater to every healthcare safety need.



**Head
Protection**



**Hand
Protection**



**Eye & Face
Protection**



**Protective
Clothing**



**Hearing
Protection**



**Fall
Protection**



**Respiratory
Protection**



**Spill Control
Solutions**



**Welding
Helmets**



**Ergonomics
Solutions**

Regulatory

CE Information

In the EU, all products defined as PPE (Personal Protective Equipment) are covered by the PPE Regulation 2016/425. It is a mandatory requirement that the CE mark is affixed to all PPE provided all the appropriate elements of the Regulation are satisfied. **Without the CE mark, the product cannot be sold in the EU as PPE.** The package itself can be marked if product marking is not appropriate.



CATEGORY 1

For Minimal Risks Only.

PPE's in this category are designed to protect against the risk that are minimal.



CATEGORY 2

The risk is not classified as minimal

PPE's in this category are designed to protect against the risk that are not minimal.



CATEGORY 3

intended to protect against mortal and irreversibly damage health

PPE's in this category are designed to protect against the highest level of risk.

PPE Assessment And Markings

CERTIFICATION RULES	CATEGORY I	CATEGORY II	CATEGORY III
Classification	Minor Risk	Intermediate Risk	Mortal Risks Or Irreversible
Obligations of the Manufacturer	Technical file of the PPE Declaration of conformity User instruction CE marking	Category I EU type examination by a Notified Body (module B)	Category II Annual PPE surveillance by a Notified Body (Module C2 or D) Affix the number of the Notified Body on the marking
Marking			



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HEAD PROTECTION

TorShell[®]

Head Protection

Essential for Workplace Safety

In the dynamic realm of industrial safety, there's no compromise when it comes to protecting the most vital asset: the head. In the fast-paced, high-risk settings of industrial workplaces, the human head is vulnerable to a myriad of hazards. TorShell® range of Safety Helmets protects from falling debris to unexpected collisions, the risks are omnipresent. Bison Life® rises to the challenge, offering a comprehensive solution designed to fortify against these threats and ensure safety from the top down.

Why Head Protection Matter?

Protecting your head is crucial for staying safe at work. Whether you're in construction, manufacturing, or any other industry, wearing the right headgear can prevent serious injuries and even save lives.

Understanding the Importance

Head injuries can be severe and sometimes life-threatening. Wearing a helmet or other head protection can reduce the risk of head injuries from falling objects, bumps, or impacts. It's not just about avoiding cuts or bruises; head protection can prevent traumatic brain injuries that can have long-term effects on your health and well-being.

Choosing the Right Gear

Selecting the right head protection is essential. Helmets should fit properly and meet safety standards to ensure they provide adequate protection. Different workplaces may require different types of headgear, so it's essential to understand the specific hazards you face and choose gear accordingly.

Making Safety a Priority

Prioritizing head protection means taking proactive steps to keep yourself safe. It's not just a matter of following rules or regulations—it's about looking out for your own well-being and the well-being of your colleagues. By wearing proper headgear, you're not only protecting yourself but also setting an example for others to follow.

EN 397 is a European standard specifying the requirements for industrial safety helmets. The standard covers a range of performance requirements to ensure adequate protection for the wearer under typical conditions encountered in industry.

key aspects of EN 397 standard:

- **Impact Protection:**

Helmets must be able to withstand the force of an object falling from a height. This is tested by dropping a specified weight onto the helmet from a specified height.

- **Penetration Resistance:**

Helmets must resist penetration from sharp objects, tested by dropping a pointed object onto the helmet.

- **Chin Strap Anchorage:**

If the helmet includes a chin strap, it must not detach when subjected to forces typical of industrial use.

- **Flammability:**

Helmets must be made from materials that do not easily ignite and burn.

- **Shock Absorption:**

Helmets must absorb a significant amount of the impact force, reducing the amount transmitted to the wearer's head.

Optional Requirements (Additional Protections)

● Resistance to Extreme Temperatures:

Helmets can be tested for performance in extreme cold or heat, ensuring they protect a range of environmental conditions.

● Electrical Insulation:

Some helmets are tested for their ability to protect against electrical shocks.

● Molten Metal Splash Resistance:

Helmets can be tested for resistance to molten metal splashes, making them suitable for use in foundries and similar environments.

● Lateral Deformation:

Helmets may be tested for their ability to withstand side compression, providing additional protection in environments where lateral impacts are a risk.

Marking and Information:

Helmets that meet the EN 397 standard must be marked with:

- The manufacturer's name or logo.
- The model or type of helmet.
- The year and quarter of manufacture.
- The standard number (EN 397).
- Any additional optional requirements met.

Use and Maintenance:

Inspection: Helmets should be regularly inspected for damage or wear and replaced if necessary.

Cleaning: Helmets should be cleaned with mild soap and water, avoiding the use of solvents or harsh chemicals that could degrade the material.

Storage: Helmets should be stored away from direct sunlight and chemicals when not in use to prolong their life.

EN 397 safety helmets are crucial in providing head protection in industrial settings, ensuring worker safety by mitigating the risks associated with head injuries.

IS 2925 is an Indian Standard specification for industrial safety helmets, similar to the EN 397 standard in Europe. It specifies the requirements and testing methods for helmets used to protect the heads of industrial workers from various hazards, including impact and penetration.

key aspects of IS 2925 standard

● Material Requirements:

The helmet's shell and harness must be made from materials that provide adequate protection and durability.

● Design and Construction:

Helmets must be designed to offer maximum coverage and comfort while ensuring stability and protection. They must have a smooth, rounded outer surface without any sharp projections.

● Performance Requirements:

Impact Resistance: Helmets must absorb a specified amount of energy to protect the wearer's head from impacts.

Penetration Resistance: Helmets must resist penetration by sharp objects to prevent punctures and other injuries.

Flame Resistance: The materials used in the helmet must resist ignition and quickly self-extinguish to provide protection in fire situations.

Electrical Insulation: Helmets must offer protection against accidental contact with live electrical conductors up to specified voltage levels.

Water Absorption: Helmets must not absorb more than a certain amount of water to maintain their protective qualities even in wet conditions.

● Marking and Labeling:

Helmets complying with IS 2925 must be clearly marked with:

- The ISI mark (indicating compliance with the standard).
- The manufacturer's name or trademark.
- The year of manufacture.
- The model number or designation.
- Instructions for use and maintenance

● Testing Methods:

The standard specifies various tests to assess the helmet's performance, including:

Impact Test: Dropping a specified weight from a set height onto the helmet.

Penetration Test: Dropping a pointed object onto the helmet to test resistance.

Flame Resistance Test: Exposing the helmet to a flame and observing its reaction.

Electrical Insulation Test: Applying a specified voltage to the helmet and measuring the leakage current.

Water Absorption Test: Immersing the helmet in water for a specified duration and measuring the amount of water absorbed.

Industrial safety helmets complying with IS 2925 provide workers with essential protection against head injuries in various industrial environments, ensuring their safety and well-being. These helmets are mandatory in many industries and are subjected to rigorous testing and certification processes to meet the standard's requirements.

key aspects of EN 812 standard:

EN 812 is the European standard that specifies the requirements for industrial bump caps, which are designed to protect the wearer from head injuries caused by striking the head against hard, stationary objects. Unlike traditional safety helmets, bump caps are intended for use in environments where there is no risk of falling objects but where there is a danger of accidental bumps.

Key features include:

- **Impact Resistance:**

Bump caps must provide sufficient protection against impacts to the head, as specified by the standard.

- **Material Durability:**

Bump caps must be made from materials that can withstand impacts and wear during normal use.

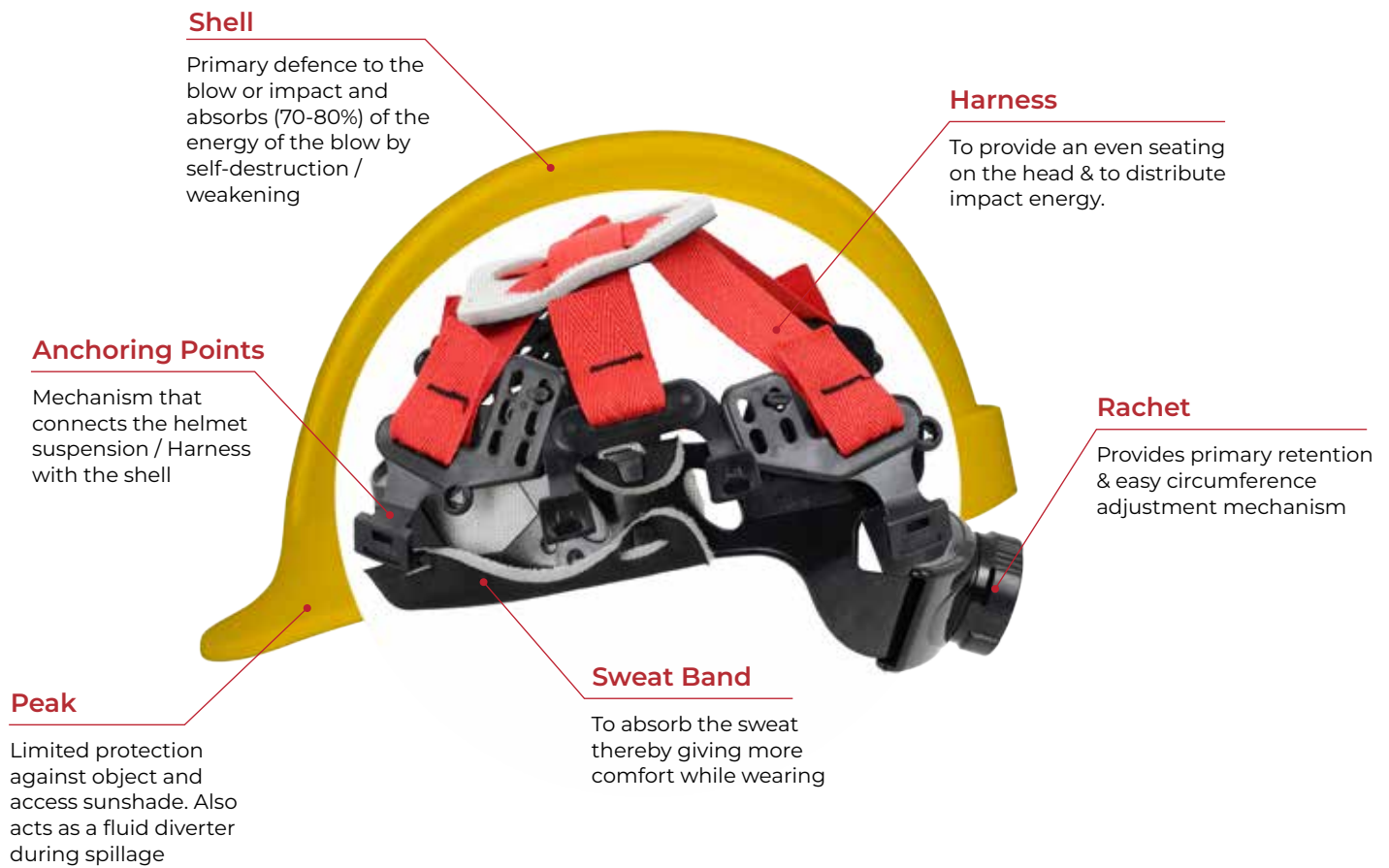
- **Design Requirements:**

The caps should cover the top of the head and have an adjustable fit for comfort and security.

EN 812 ensures that bump caps offer adequate protection in low-risk environments, complementing other personal protective equipment (PPE) used in the workplace.



Know Your Safety Helmet



8-point

nylon suspension for better protection



Unique 3-point

height adjustment in suspension



Shell

HDPE / ABS



Harness

Nylon



Suspension

HDPE



Ratchet

Rotating
Push & Rotate



Air Circulation

Vented



Sweat Pad

Soft Foam

HL3121

Non-Vented HDPE Helmet

CE 2233 EN 397:2012 +A1:2012

IS 2925:1984



CLASS E

CLASS G



Available Colours



Product Specification

Shell	HDPE
Harness	HDPE
Suspension	8 Point Nylon
Sweatband	Yes
Chin Strap	Yes
Adjustment Type	Ratchet
Shell weight	310 ± 15g
Shell with Harness weight	440 ± 15g

Packaging Information

1 Piece / Polybag
28 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-ES-HDPE-HHNV6Y	OSFM	Yellow	810090089430	10810090089437
BLSH-ES-HDPE-HHNV6W	OSFM	White	810090089447	10810090089444
BLSH-ES-HDPE-HHNV6BL	OSFM	Blue	810090089454	10810090089451
BLSH-ES-HDPE-HHNV6R	OSFM	Red	810090089461	10810090089468
BLSH-ES-HDPE-HHNV6GR	OSFM	Green	810090089478	10810090089475

HL3221

Non-Vented ABS Helmet

CE 2233 EN 397:2012 +A1:2012



ISEA Z 89.1 - 2014

IS 2925:1984



CLASS E

CLASS G



Available Colours



Product Specification

Shell	ABS
Harness	HDPE
Suspension	8 Point Nylon
Sweatband	Yes
Chin Strap	Yes
Adjustment Type	Ratchet
Shell weight	310 ± 15g
Shell with Harness weight	440 ± 15g

Packaging Information

1 Piece / Polybag
28 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-ES-ABS-HHNV7Y	OSFM	Yellow	810090089485	10810090089482
BLSH-ES-ABS-HHNV7BL	OSFM	Blue	810148535834	00810148535865
BLSH-ES-ABS-HHNV7W	OSFM	White	810090089492	10810090089499

HL3321

Vented HDPE Helmet

CE 2233 EN 397:2012 +A1:2012

IS 2925:1984



Available Colours



Product Specification

Shell	HDPE
Vented	Yes
Harness	HDPE
Suspension	8 Point Nylon
Sweatband	Yes
Chin Strap	Yes
Adjustment Type	Ratchet
Shell weight	310 ± 15g
Shell with Harness weight	440 ± 15g

Packaging Information

1 Piece / Polybag
28 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-ES-HDPE-HHV8Y	OSFM	Yellow	810090089508	10810090089505
BLSH-ES-HDPE-HHV8W	OSFM	White	810090089515	10810090089512
BLSH-ES-HDPE-HHV8BL	OSFM	Blue	810090089522	10810090089529
BLSH-ES-HDPE-HHV8R	OSFM	Red	810090089539	10810090089536
BLSH-ES-HDPE-HHV8GR	OSFM	Green	810090089546	10810090089543

HL3421

Vented ABS Helmet

CE EN 397:2012 +A1:2012

IS 2925:1984



Available Colours



Product Specification

Shell	ABS
Vented	Yes
Harness	HDPE
Suspension	8 Point Nylon
Sweatband	Yes
Chin Strap	Yes
Adjustment Type	Ratchet
Shell weight	310 ± 15g
Shell with Harness weight	440 ± 15g

Packaging Information

1 Piece / Polybag
28 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-ES-ABS-HHV8Y	OSFM	Yellow	810090089553	10810090089550
BLSH-ES-ABS-HHV8BL	OSFM	Blue	810148535858	00810148535841
BLSH-ES-ABS-HHV8W	OSFM	White	810090089560	10810090089567

Safety Bump Cap

TorShell® Series

BC3232

Breathable Bump Cap with Rechargeable LED Light (3 Modes)



Press Once Glare Light
Press Twice Low Light
Press Thrice SOS Warning Light

Available Colours



Product Specification

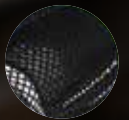
Outer Material	Polyster
Inner Shell	ABS
Size	Universal
Style	Baseball Style
Reflective Stripes	Yes
Closure Type	Elastic Strap with clip
LED	3 Modes

Packaging Information

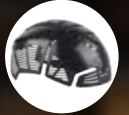
1 Piece / Polybag
20 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-BC-M3-LED	OSFM	Green	810148533656	00810148533663

CE EN 812:2012



Breathable Mesh



Impact Resistant ABS Shell



Foam Padding for Comfort



3 Mode LED Light



USB Rechargeable Light

BC3131

Breathable Bump Cap with HDPE Shell & Anti-Shock Foam Cushioning

CE EN 812:2012



Available Colours



Product Specification

Outer Material	Polyster
Inner Shell	HDPE
Size	Universal
Style	Baseball Style
Reflective Stripes	Yes
Closure Type	Elastic strap with clip

Packaging Information

1 Piece / Polybag
40 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-MS-PFBC-BK-1	OSFM	Black	810148533670	00810148533687
BLSH-MS-PFBC-BL-1	OSFM	Navy Blue	810148533694	00810148533700
BLSH-MS-PFBC-O-1	OSFM	Orange	810148533717	00810148533724
BLSH-MS-PFBC-GR-1	OSFM	Green	810148533731	00810148533748

BC3241

CE EN 812:2012



Available Colours



Product Specification

Material	Polycotton
Shell	ABS
Size	Universal
Style	Baseball Style
Closure Type	Velcro

Packaging Information

1 Piece / Polybag
40 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-MS-FBC-BL-1	OSFM	Blue	810090087399	00810090087405
BLSH-MS-FBC-BK-1	OSFM	Black	810090087412	00810090087429



Eye
PROTECTION

VisonSafe[™]

Eye Protection

Essential for Workplace Safety

In today's fast-paced workplaces, protecting your vision is paramount. That's why VisonSafe™ offers a range of cutting-edge eye protection solutions designed to keep your eyes safe from a variety of workplace hazards. At Bison Life®, we understand the importance of clear vision and the potential risks your eyes face every day. Our safety glasses, goggles, and face shields are meticulously crafted using high-quality materials to provide durability, comfort, and maximum protection.

Why Eye Protection Matter?

Protecting your eyes is crucial for staying safe at work. Whether you're in construction, manufacturing, healthcare, or any other industry, wearing the right eye protection can prevent serious injuries and safeguard your vision.

Understanding the Importance

Eye injuries can be severe and sometimes lead to permanent vision loss. Wearing safety glasses, goggles, or face shields helps shield your eyes from flying debris, chemicals, bright lights, and other hazards. This protection is vital for preventing injuries that could affect your ability to see clearly.

Choosing the Right Gear

- **Safety Glasses:** Lightweight and comfortable, these are ideal for protecting against dust, particles, and minor impacts.
- **Goggles:** Provide a secure seal around the eyes, offering protection from chemicals, splashes, and fine dust.
- **Face Shields:** Cover the entire face, providing additional protection against splashes, chemical spills, and high-velocity impacts.
- **Welding Helmets:** Designed to protect the eyes and face from intense light and sparks during welding operations.
- **Sunglasses with UV Protection:** Essential for outdoor workers to protect against harmful ultraviolet (UV) rays.
- **Prescription Safety Glasses:** Prescription safety glasses are essential for individuals who need vision correction and work in environments with potential eye hazards.

Making Safety a Priority

Prioritizing eye protection means understanding the risks and choosing the appropriate gear. It's not just about following workplace rules; it's about protecting your vision and overall health. Always wear the right protection for the job and ensure it fits properly.

EN 166 is a European standard that sets out the requirements for personal eye protection. This standard covers a wide range of protective eyewear, including safety glasses, goggles, and face shields, designed to shield the eyes from various hazards in the workplace or other environments.

key aspects of EN 166 standard:

● Impact Resistance:

Eyewear must provide adequate protection against high-speed particles and projectiles, ensuring they do not shatter upon impact.

● Optical Quality:

Lenses must have minimal optical distortion to provide clear vision without causing discomfort or eye strain.

● Protection Against Ultraviolet (UV) Radiation:

Some eyewear may offer UV protection to shield the eyes from harmful UV rays, which can cause long-term damage to the eyes and surrounding skin.

● Frame Durability:

Frames should be robust and capable of withstanding mechanical stresses without breaking or deforming.

● Comfort and Fit:

Eyewear should be comfortable to wear for extended periods, with adjustable features to ensure a secure and personalized fit for different users.

● Resistance to Chemicals and Liquids:

Eyewear may be tested for resistance to various chemicals and liquids, depending on the intended use and workplace hazards.

● Marking and Labeling:

Each piece of eyewear must be marked with relevant information, including the manufacturer's details, lens properties (e.g., optical class, UV protection), and compliance with the EN 166 standard.

By adhering to the requirements outlined in EN 166, manufacturers ensure that their protective eyewear offers reliable protection against common workplace hazards, promoting safety and reducing the risk of eye injuries. It's important for employers and workers to select eyewear that meets the appropriate standards for their specific tasks and environments to ensure optimal protection and comfort.

Key Aspects of ISO 16321-1:2021

● Adaptability to Emerging Risks:

ISO 16321-1:2021 addresses emerging risks, such as protection against ultraviolet and infrared radiation, which may not be fully covered by EN166:2001 but under other standards such as EN170, EN171. This guarantees more complete protection in constantly changing work environments since ISO 16321-1:2021 covers them all.

● Personalized Risk Assessment:

The new standard places strong emphasis on the assessment of specific risks in the workplace, allowing for more precise selection of protective devices. This leads to more effective and personalized protection for workers.

● Labeling & Marking Improvements:

ISO 16321-1:2021 establishes detailed requirements for the labeling and marking of eye protection devices, facilitating quick and clear identification of the safety features provided.

● Incorporating Technological Advances:

By integrating the latest technological advances and scientific discoveries, the standard ensures that eye protection products are at the forefront of safety, leveraging innovations for greater effectiveness.

The ANSI Z87.1 standard, set by the American National Standards Institute, outlines the criteria for the design, construction, testing, and use of eye protection devices, including prescription safety glasses. The standard ensures that eyewear provides adequate protection against hazards such as impacts, chemicals, dust, and radiation.

Key Aspects of ANSI Z87.1

● Impact Protection:

High Impact: Tested by shooting a 1/4-inch steel ball at the lens at high speeds. High-impact lenses must withstand this without breaking.

Basic Impact: Requires lenses to withstand a lower impact force than high-impact lenses.

● Lens Markings:

Lenses marked with "Z87+" meet the high-impact protection standards.

Basic impact lenses will simply have "Z87" marked on them.

● Frame Markings:

Frames are marked with "Z87-2" if they can accommodate prescription lenses and meet the safety requirements.

Regular safety frames without prescription capabilities are marked "Z87."

● Lens Coatings and Features:

Anti-fog, anti-scratch, and UV protection coatings can be added to enhance the functionality and safety of the glasses.

Markings indicating specific features, such as "U" for UV protection and "V" for variable tint.

● Coverage and Fit:

Eyewear must provide adequate coverage to protect the eyes from different angles, including side protection.

Should fit securely and comfortably to ensure they stay in place during use.

● Specific Use Cases:

ANSI Z87.1 also covers specialized eyewear for protection against chemical splashes, dust, and optical radiation from welding and cutting operations.

Importance of Compliance

Compliance with ANSI Z87.1 ensures that safety glasses provide reliable and standardized protection in hazardous environments. Employers are responsible for providing appropriate eye protection to their workers, and ensuring compliance with this standard helps mitigate the risk of eye injuries.



SportzV®



Product Specification

Frame	Nylon
Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	TPR
Temple	Nylon with Rubber tip

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-SVSG-CLLCT-BKR	OSFM	810090089393	00810090088839

CE EN 166



Z87.1

SportzV® Safety Glasses are lightweight, sturdy, protective, stylish, and comfortable.



ANTI-SCRATCH



ANTI-FOG



ANTI-SLIP TEMPLE



SOFT NOSE BRIDGE



BROW GUARD



LATERAL PROTECTION

Kristal®

Single Wraparound Polycarbonate Lens

CE EN 166

ANSI Z87.1

Available in



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear / Grey
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate



ANTI-SCRATCH



FLEXIBLE
TEMPLE



LATERAL
PROTECTION

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-ES-KR-CLLCT	OSFM	Clear	810090088662	00810090088686
BLSH-ES-KR-CLCT-BK	OSFM	Black	810090088693	00810090088716
BLSH-ES-KR-CLLCT-BR	OSFM	Brown	810090088723	00810090088747
BLSH-ES-KR-CLLCT-Y	OSFM	Yellow	810090088754	00810090088778

HylineX®

Single Wraparound Polycarbonate Lens with Soft Temple Tip

CE EN 166

ANSI Z87.1



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate with Rubber tip



ANTI-FOG



ANTI-SCRATCH



ANTI-SLIP
TEMPLE

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-HYX-CLLCT-BL	OSFM	810090089423	00810090088860

Hicross®

Single Wraparound Polycarbonate Lens with Soft Padding

CE EN 166

ANSI Z87.1



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	No
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate
Padded Seal	Yes



ANTI-SCRATCH



PADDED
SEAL



LATERAL
PROTECTION

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-HCSG-CLLCT	OSFM	810090088488	00810090088815

Hicross®

Single Wraparound Polycarbonate Lens with Soft Padding

CE EN 166

ANSI Z87.1



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate
Padded Seal	Yes



ANTI-FOG



ANTI-SCRATCH



PADDED
SEAL



LATERAL
PROTECTION

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-HCSG-CLLCT	OSFM	810090088495	00810090088822

Hicross® Plus

Polycarbonate Lens with Soft Padding & Soft Temple Tip

CE EN 166 ANSI Z87+



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate
Padded Seal	Yes

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton



ANTI-FOG



ANTI-SCRATCH



PADDED SEAL



LATERAL PROTECTION



ANTI-SLIP TEMPLE

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-VS-HCP-CLLCT	OSFM	Clear	810188141361	00810188141385
BLSH-VS-HCP-CLCT-BK	OSFM	Black	810188141392	00810188141415

BoxerX®

Frameless Safety Glasses with Adjustable Temples

CE EN 166 ANSI Z87.1



Comes with Cord

Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	TPR
Adjustable Temple	Nylon

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton



Anti-Fog



Anti-Scratch



Soft Nose Bridge



Adjustable Temple



Multi Angle Adjustment Temple



Lateral Protection

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-BOX-CLLCT-O	OSFM	810090089416	00810090088853

Duarte®

Semi-Framed Safety Glasses (OTG)

CE EN 166 ANSI Z87.1



Comes with Cord

Product Specification

Frame	Nylon
Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	TPR
Temple	Nylon with Rubber tip

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton



Anti-Fog



Anti-Scratch



Brow Guard



Lateral Protection

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-OTGP-CLLCT-BK	OSFM	810090089362	00810090088808

Diamont®

Single Piece Polycarbonate Safety Glasses (OTG)

CE EN 166 ANSI Z87.1

Available in 



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Vented Temple	Polycarbonate
Metal Free	Yes

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton



Anti-Fog



Anti-Scratch



Vented Temple

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-SVSG-CLLCT-BKR	OSFM	810090089393	00810090088839

PrimeX™

Frameless Safety Glasses with Soft Temple Tip

CE EN 166 ANSI Z87.1



Product Specification

Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate with Rubber tip



Anti-Fog



Anti-Scratch



Anti-Slip Temple



Lateral Protection

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
ZH-PRXSG-CLLBKT-MS14	OSFM	810025605087	00810025605094

PrimeX™

IR5 Frameless Safety Glasses with Soft Temple Tip

CE EN 166 ANSI Z87.1



IR5

Product Specification

Lens Material	Polycarbonate
Lens Colour	IR5
Anti-Fog	Yes
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate with Rubber tip



Anti-Fog



Anti-Scratch



Anti-Slip Temple



Lateral Protection

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
SH-PRXSG-FCBK-MS14-IR5	OSFM	810025605186	00810025605193

SplashGuard™

Indirect Vented Safety Goggles

CE EN 166 ANSI Z87.1



Product Specification

Frame	PVC
Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Headband	Adjustable elastic
Ventilation	Indirect vents



Anti-Scratch



Indirect Vents



Lateral Protection

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
144 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-SG-CLLCLT	OSFM	810090089348	00810090088785

SplashGuardX™

Chemical Splash Goggle with Soft Face Seal

CE EN 166 ANSI Z87.1



Product Specification

Sealing	Silicone
Lens Material	Polycarbonate
Lens Colour	Clear
Anti-Scratch	Yes
UV Protection	Yes
Nose Bridge	Integrated with lens
Headband	Adjustable elastic



Anti-Fog



Anti-Scratch



Silicone Padded Seal



Panoramic Vision

Packaging Information

1 Piece / Polybag
12 Pieces / Bubblewrap
120 Pieces / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-SGX-CLLCT-BKR	OSFM	810090089409	00810090088846

HG123 Universal Aluminium Metal Headgear



Product Specification

Product	Universal Metal Headgear
Material	Aluminium
Size	21.5*18.5*2.5 cm
Colour	Black
Weight	60 grams

Packaging Information

1 Pc / Poly Bag
50 Pcs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-UHG- BK-1	OSFM	810090087313	00810090087320

FS121 Clear Polycarbonate Visor



Product Specification

Product	Polycarbonate Visor
Size	30*20 cm
Colour	Clear
Anti-Fog	Yes
Anti-Scratch	Yes
Weight	70 grams

Packaging Information

10 Pc / Polybag
200 Pcs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-RFS-1	OSFM	810090087337	00810090087344

FS321 IR5 Polycarbonate Visor



Product Specification

Product	Polycarbonate Visor
Size	39.5*24 cm
Colour	IR5
Anti-Fog	Yes
Anti-Scratch	Yes

Packaging Information

10 Pc / Polybag
200 Pcs / Carton

Product SKU	Size
BLSH-ES-IR5FS-1	OSFM

FS421 Gold Coated Polycarbonate Visor



Product Specification

Product	Polycarbonate Visor
Size	39.5*24 cm
Colour	Gold coated
Anti-Fog	Yes
Anti-Scratch	Yes

Packaging Information

10 Pc / Polybag
200 Pcs / Carton

Product SKU	Size
BLSH-ES-GFS-1	OSFM

VisonSafe™

Prescription Safety Glasses



CE EN 166 EN ISO 16321-1

Prescription safety glasses are essential for individuals who need vision correction and work in environments with potential eye hazards.

Product Specification

Frame	Polycarbonate
Lens Material	Polycarbonate
Lens Colour	Clear
UV Protection	Yes
Nose Bridge	Integrated with lens
Temple	Polycarbonate

Features

- **Lateral Protection**
Integrated side shields with a wraparound design for complete safety, shielding you from dust and debris
- **UV Protection**
Blocks harmful rays so your eyes stay safe, no matter the forecast
- **Safety Meets Style**
Eyewear that delivers both performance and protection. Whether at work or play, protect your eyes without compromising on comfort or aesthetics





HEARING PROTECTION



NoiseGard[®]

Hearing Protection

Essential for Your Safety

Protecting your hearing is vital. Noise-induced hearing loss is often irreversible, making proactive measures essential. NoiseGard® provides advanced solutions designed to safeguard your ears in various noisy environments. Whether you're in a loud workplace, attending concerts, or participating in other activities with high noise levels, investing in quality hearing protection can help prevent long-term damage and preserve your hearing health.

Why Hearing Protection Matter?

Noise-induced hearing loss is one of the most common problems people face at work. It happens slowly and painlessly, so many don't notice it until it's too late. What makes it so serious is that once your hearing is damaged, it can't be fixed.

What is Noise?

Noise is made up of loud sounds that can damage your hearing. But it's not just your hearing that suffers; noise can also be annoying and distracting. Even quieter sounds, like a ticking clock or a dripping tap, can make it hard to concentrate.

What Happens When You're Exposed to Noise?

Every day, we're exposed to noise from all sorts of sources, which constantly stresses our ears. This daily noise can cause permanent hearing loss.

But noise affects more than just your ears. It can stress your entire body without you even realizing it. Constant noise can make it hard to concentrate, upset your stomach, raise your blood pressure, and even increase the risk of a heart attack.

That's why protecting your hearing is so important. It's not just about saving your hearing but also about keeping your whole body healthy. Make sure to use hearing protection in noisy environments to avoid these risks.

SNR, or Single Number Rating, is a measure used to indicate the effectiveness of hearing protection devices in reducing noise exposure. It represents the average sound reduction level in decibels (dB) that the device provides across different frequencies. A higher SNR value means better noise attenuation, offering greater protection against loud sounds.

Brief overview of how SNR is used:

- **Determine the noise level:**

Measure or estimate the average noise level in your environment.

- **Choose hearing protection with appropriate SNR:**

Select earplugs or earmuffs with an SNR that reduces the noise level to a safe threshold, typically below 85 dB.

- **Apply the SNR value:**

Subtract the SNR value from the measured noise level to estimate the effective noise exposure when wearing the protection.

For example, if you're in an environment with a noise level of 100 dB and use earplugs with an SNR of 30, the estimated noise exposure would be 70 Db.

Using products with appropriate SNR ratings ensures that you are effectively protecting your hearing based on the specific noise levels you encounter.

The **EN 352** series is a set of European standards that specifies the requirements for hearing protection devices. The series is divided into several parts, each addressing different types of hearing protection:

EN 352-1: Ear Muffs

This part of the standard specifies requirements for ear muffs, which are designed to reduce the level of noise reaching the ears.

Key aspects include:

- **Attenuation Levels:**

The ear muffs must provide adequate noise reduction (attenuation) levels, which are tested across different frequencies.

- **Design and Construction:**

Ear muffs must be comfortable to wear for extended periods, with adjustable headbands to ensure a secure fit.

- **Materials:**

The materials used should be durable and suitable for different environmental conditions.

- **Marking:**

Each ear muff must be clearly marked with the manufacturer's details, the standard number (EN 352-1), and the attenuation values.

- **Testing:**

Ear muffs must undergo various tests to ensure they meet the standard's performance criteria, including mechanical strength, temperature resistance, and hygiene requirements.

EN 352-2: Ear Plugs

This part of the standard specifies requirements for ear plugs, which are inserted into the ear canal to reduce noise levels.

Key aspects include:

- **Attenuation Levels:**

plugs must provide effective noise reduction, which is tested across different frequencies.

- **Design and Fit:**

Ear plugs should be designed to fit comfortably in the ear canal and stay in place during use.

- **Materials:**

The materials must be non-toxic, hypoallergenic, and durable.

- **Marking and Instructions:**

Each package of ear plugs must be marked with the manufacturer's details, the standard number (EN 352-2), and instructions for use.

- **Testing:**

Ear plugs must pass tests for mechanical properties, hygiene, and user comfort to ensure they meet the standard's performance criteria.

EN 352-3: Ear Muffs Attached to a Safety Helmet

This part of the standard specifies requirements for ear muffs that are integrated with or attached to a safety helmet.

Key aspects include:

- **Attenuation Levels:**

The ear muffs must provide effective noise reduction, similar to standalone ear muffs.

- **Compatibility:**

The ear muffs must be compatible with the specific safety helmets they are designed to be attached to.

- **Design and Construction:**

The attachment mechanism should allow the ear muffs to be securely fitted to the helmet and easily adjusted for user comfort.

- **Materials:**

The materials must be durable and suitable for the environments in which the helmet and ear muffs will be used.

- **Marking:**

Each pair of ear muffs must be marked with the manufacturer's details, the standard number (EN 352-3), and attenuation values.

- **Testing:**

Ear muffs attached to helmets must undergo tests to ensure they meet performance criteria, including mechanical strength, temperature resistance, and ease of attachment.

By complying with these standards, manufacturers ensure that their hearing protection devices provide adequate protection against harmful noise levels, are comfortable to use, and are durable in various environmental conditions.



NoiseGard®

Head Mount Active Earmuff

EM3510

CE 2834 EN 352



Product Specification

Style	Head Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
Headband Material	Polyoxymethylene
SNR	32dB
Bluetooth	5.3
Battery Capacity	1000 mAh
IP54	Yes

Packaging Information

1 Pc / Box
20 Pcs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-ALHM-32DB-BK	OSFM	810148533632	00810148533649



Large 1000mAh Battery



Protection Against Splashing



Available with SNR 32dB Attenuation Value



IAL Intelligent Active Listening



Bluetooth Dual Connect Mode



Noise Cancelling Boom Microphone

EM1110

Head Mount Ear Muff

CE 2754 EN 352-1:2020

Product Specification

Style	Head Mount
Ear cups	ABS
Colour	Red
Cushion	PVC
Headband Material	Polyoxymethylene
SNR	29dB
HML	33, 27, 17

Packaging Information

1 Pc / Box
50 Pcs / Carton



29dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-2400-29DB-R	OSFM	810148533595	00810148533601

EM2310

Head Mount Ear Muff

CE 2754 EN 352-1:2020

Product Specification

Style	Head Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
Headband Material	Neoprene & pu leather
SNR	36dB
HML	38, 34, 28

Packaging Information

1 Pc / Box
20 Pcs / Carton



36dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-3020GT-36DB-BK	OSFM	810148530167	00810148530198

EM3210

Head Mount Ear Muff

CE 2754 EN 352-1:2020

Product Specification

Style	Head Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
Headband Material	Polyoxymethylene
SNR	32dB
HML	38, 30, 22

Packaging Information

1 Pc / Box
20 Pcs / Carton



32dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-X3M-32DB-BL	OSFM	810148533533	00810148533540

EM3310

Head Mount Ear Muff

CE 2754 EN 352-1:2020

Product Specification

Style	Head Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
Headband Material	Polyoxymethylene
SNR	34dB
HML	37, 31, 24

Packaging Information

1 Pc / Box
20 Pcs / Carton



34dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-X5M-34DB-BK	OSFM	810148533557	00810148533564

EM3230

Helmet Mount Ear Muff

CE 2754 EN 352-3:2020

Product Specification

Style	Helmet Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
SNR	31dB
HML	37, 31, 24

Packaging Information

1 Pc / Box
20 Pcs / Carton



31dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-X3HM-31DB-Y	OSFM	810148533571	00810148533588

EM2230

Helmet Mount Ear Muff

CE 2754 EN 352-3:2020

Product Specification

Style	Helmet Mount
Ear cups	ABS
Colour	Black
Cushion	PVC
SNR	33dB
HML	37, 31, 23

Packaging Information

1 Pc / Box
20 Pcs / Carton



33dB
SNR

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-NG-PSHM-33DB-BK	OSFM	810148533618	00810148533625

EP1112

Disposable Corded PU Ear Plug

€ 2797

EN 352-2:2020

Product Specification

Style	Disposable
Material	Polyurethane Foam
Colour	Orange
Shape	Tapered
SNR	37dB
HML	36,35,34
Cord type	Corded



Packaging Information

1 Pair / Polybag
500 Pairs / Master Polybag
2000 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-DCEP-O	OSFM	810090089935	00810090089966

EP1111

Disposable PU Ear Plug

€ 2797

EN 352-2:2020

Product Specification

Style	Disposable
Material	Polyurethane Foam
Colour	Orange
Shape	Tapered
SNR	37dB
HML	36,35,34
Cord type	Uncorded



Packaging Information

500 Pairs / Master Polybag
2000 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-DEP-O	OSFM	810148534936	00810148534981

EP3232 | EP3232B

Re-usable Corded TPR Ear Plug

€ 2797

EN 352-2:2020

Product Specification

Style	Re-usable
Material	TPR
Colour	Orange
Shape	Multi-Flange
SNR	31dB
HML	31,28,27
Cord type	Corded



Packaging Information

1 Pair / Polybag
100 Pairs / Master Polybag
500 Pairs / Carton

Also available with Storage box option .

Model No.	Product SKU	Size	Inner pack UPC	Carton GTIN
EP3232	BLSH-ES-RCEP-O	OSFM	810090089942	00810090089973
EP3232B	BLSH-ES-RCEP-BX-O	OSFM	810090089959	00810090089980

EP3231

Re-usable TPR Ear Plug

€ 2797

EN 352-2:2020

Product Specification

Style	Re-usable
Material	TPR
Colour	Orange
Shape	Multi-Flange
SNR	31dB
HML	31,28,27
Cord type	Uncorded



Packaging Information

2000 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-REP-O	OSFM	810148534943	00810148534950

EP3233

Re-usable TPR Ear Plug with Neckband

€ 2797

EN 352-2:2020

Product Specification

Style	Re-usable
Material	TPR
Colour	Blue
Shape	Multi-Flange
SNR	27dB
HML	27,24,23
Cord type	Neckband



Packaging Information

1 Piece / Polybag

Product SKU	Size
BLSH-ES-RCEP-BX-O	OSFM

EPD001

Disposable Ear Plug Dispenser with Disposable Ear Plugs

€ 2797

EN 352-2:2020

Product Specification

Style	Disposable
Material	ABS
Colour	Black
Cord type	Uncorded



Disposable Ear Plug with Dispenser

Packaging Information

1 Set / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-DEPD-CLBK-1	OSFM	810148534998	00810148535001

EMC210

CE 2834 EN 352

NoiseGard®-Comm

Communication Ear Muff



Detachable
Lithium Battery



Soft Cushion Head Band



Digital & Analog Communication



Control Buttons



External Cables Option



PTT Button



Bluetooth Button

Product Specification

working voltage	3.3~5.5V
Connected standby time (off)	≈1year (Base on actual battery consumption)
Continuous working time (on)	≈8h
Speaker size	Φ27mm
Speaker impedance	32Ω
Battery type	3.7V lithium battery
Headphone battery capacity	2200mAh
Supported audio	Bluetooth intercom microphone input
Headphone off current	≤5uA
Headphone on current	≤25mA
Working environment temperature range	-10oC-40oC
Storage environment temperature range	-20oC-60oC



EP3164

Disposable Metal Detectable PU Ear Plug

CE 2797

EN 352-2:2020

Product Specification	
Style	Disposable
Material	Polyurethane Foam
Colour	Blue
Shape	Tapered
SNR	37dB
HML	36,35,34
Cord type	Metal Detectable Cord

Metal Detectable Ear plugs

There is no metal ball inside, and it can be detected even if it is torn into pieces. Small fragments can also be detected.

Soft PU foam

Comfortable for long time use.



Packaging Information

1 Pair / Polybag

Product SKU	Size
BLSH-MD-DCEP-B	OSFM

Metal Detectable Cord

Soft, same as normal cord but metal-detectable.

EP3274

Re-usable Metal Detectable TPR Ear Plug

CE 2797

EN 352-2:2020

Product Specification	
Style	Re-usable
Material	TPR
Colour	Blue
Shape	Multi-Flange
SNR	32dB
HML	33,30,28
Cord type	Metal Detectable Cord

Metal Detectable Ear plugs

One body metal detectable earplugs without metal ball inside.

Soft TPR

100% detectable earplugs, reusable , washable.



Packaging Information

1 Pair / Polybag

Product SKU	Size
BLSH-MD-RCEP-B	OSFM

Metal Detectable Cord

Soft, same as normal cord but metal-detectable.

RESPIRATORY PROTECTION



Respiratory Protection

Essential for Workplace Safety

Why Respiratory Protection Matters?

Protecting your lungs is crucial for staying safe at work. Whether you're in construction, manufacturing, healthcare, or any other industry, FiltAer™, ProAer™ and ConAer™ range of respiratory protection can prevent serious health issues caused by inhaling harmful substances.

Understanding the Importance

Respiratory hazards, such as dust, fumes, smoke, and chemicals, can cause severe health problems, including lung diseases, asthma, and even cancer. Wearing respiratory protection, like Respirators and respirators, helps filter out these harmful substances, ensuring you breathe clean air.

Choosing the Right Respiratory Protection

Disposable Respirator: Lightweight and convenient for short-term use, these Respirators protect against dust and other particulates.

Half-Facepiece Respirators: Provide a better fit and protection against dust, fumes, and some gases. They require replaceable filters or cartridges.

Full-Facepiece Respirators: Offer complete protection for the face and eyes, ideal for more hazardous environments with higher levels of contaminants.

Powered Air-Purifying Respirators (PAPRs): Use a battery-powered blower to provide a steady flow of filtered air, suitable for long-duration use in high-risk areas.

Supplied-Air Respirators (SARs): SARs deliver clean air from an external source, ideal for hazardous environments or confined spaces where filtering ambient air isn't sufficient.

Self-Contained Breathing Apparatus (SCBA): Provide breathable air from a tank, essential for extremely hazardous environments where the air quality is severely compromised.

Making Safety a Priority

Prioritizing respiratory protection means understanding the risks and choosing the appropriate equipment. It's not just about following workplace rules; it's about protecting your lungs and overall health. Always use the right protection for the job and ensure it fits properly.



EN 140: Half Facepiece for Respiratory Protection

EN 140 is a European standard that specifies the requirements for half facepiece used in respiratory protective devices. These Respirators cover the nose, mouth, and chin (half facepiece) and are used with filters or breathing apparatus to protect against hazardous airborne substances.

Key Aspects of EN 140

● Design and Construction

Materials: Facepiece must be made from durable, non-toxic materials that are comfortable to wear and do not cause skin irritation.

Face Seal: Facepiece must have an effective seal around the face to prevent contaminants from leaking in.

Components: Respirators typically consist of the respirator body, head harness, and connections for filters or other respiratory devices.

● Performance Requirements

Breathing Resistance: Respirators must allow for easy breathing, with minimal resistance to airflow when inhaling and exhaling.

Filter Compatibility: Respirators should be compatible with various types of filters or cartridges depending on the specific hazards present.

Mechanical Strength: Respirators must be robust and able to withstand handling and environmental stresses without degrading.

● Testing and Certification

Leak Tightness: Respirators must be tested to ensure they maintain a tight seal around the face, preventing any contaminants from entering.

Mechanical Performance: Respirators must pass tests for durability and strength, ensuring they can handle impacts and other mechanical stresses.

Flammability: Respirators must be tested to ensure they do not easily catch fire or melt when exposed to high temperatures.

● Comfort and Fit

Adjustability: Respirators must have adjustable head straps to ensure a secure and comfortable fit for different face sizes and shapes.

Weight and Balance: The design should distribute weight evenly to minimize pressure points and increase comfort during prolonged use.

Ease of Use: Respirators should be easy to put on and take off, with simple mechanisms for attaching and detaching filters.

● Marking and Information

Manufacturer's Details: Respirators must be clearly marked with the manufacturer's name, model number, and size.

Compliance: Respirators must display a mark indicating compliance with the EN 140 standard.

User Instructions: Comprehensive instructions for use, maintenance, and cleaning must be provided to ensure proper handling and longevity of the respirator.

Respirator Cartridge Selection: Ensuring Proper Protection

Selecting the right respirator cartridge is crucial for providing adequate protection against specific airborne hazards. Different cartridges are designed to filter out various types of contaminants, including particulate matter, gases, and vapors. Here's a guide to help you choose the right respirator cartridge for your needs.

Steps for Selecting the Right Respirator Cartridge

● Identify the Hazard

Particulate Matter: Dust, fumes, mists, smoke.

Gases and Vapors: Organic vapors, acid gases, ammonia, formaldehyde, etc.

Combination Hazards: Environments with both particulates and gases/vapors.

● Understand Cartridge Types

Particulate Filters:

P1 Filters: Provide protection against low levels of dust and solid particles, suitable for environments with non-toxic dust.

P2 Filters: Offer protection against moderate levels of dust, mists, and fumes, commonly used in construction and industrial settings.

P3 Filters: Provide the highest level of protection against fine particles, including toxic dust, fumes, and asbestos, ideal for high-risk environments.

Gas and Vapor Cartridges:

Organic Vapor (OV): Protects against organic vapors such as solvents and hydrocarbons.

Acid Gas (AG): Protects against acid gases like chlorine, sulfur dioxide, and hydrogen chloride.

Ammonia/Methylamine (AM): Protects against ammonia and methylamine.

Formaldehyde (FM): Protects against formaldehyde vapors.

Combination Cartridges:

Multi-Gas/Vapor: Protects against a variety of gases and vapors.

PAPR Cartridges: Used with Powered Air-Purifying Respirators for extended use and higher comfort levels.

● Consider the Workplace Environment

Contaminant Concentration: Determine the levels of contaminants in the air to choose a cartridge with the appropriate protection factor.

Exposure Duration: Longer exposure may require more robust filtration or the use of powered air-purifying respirators (PAPRs).

Presence of Oils: If the environment contains oil aerosols, choose filters and cartridges rated for oil resistance (R or P series).

● Check Compatibility

Ensure that the cartridge is compatible with your respirator model. Not all cartridges fit all respirators, so refer to the manufacturer's compatibility chart.

● Follow Regulations and Standards

Adhere to guidelines set by occupational safety organizations such as OSHA (Occupational Safety and Health Administration) in the U.S., and ensure the selected cartridge meets relevant standards.

Color Coding for Respirator Cartridges (Based on EN Standard)

In Europe, the color coding for respirator cartridges follows the EN (European Norm) standard, ensuring that users can easily identify the type of protection each cartridge provides. Here is a guide to the color codes used for different types of contaminants according to the EN standard:

• Particulate Filters

White:

P1: Low efficiency filter (80% minimum efficiency) for protection against low levels of fine dusts.

P2: Medium efficiency filter (94% minimum efficiency) for protection against moderate levels of fine dusts, mists, and fumes.

P3: High efficiency filter (99.95% minimum efficiency) for protection against high levels of fine dusts, mists, and fumes, including carcinogenic and radioactive particles, as well as bacteria and viruses.

• Gas and Vapor Cartridges

Brown:

Type A: Organic gases and vapors with boiling points above 65°C (e.g., solvents and hydrocarbons).

Grey:

Type B: Inorganic gases and vapors (e.g., chlorine, hydrogen sulfide, hydrogen cyanide).

Yellow:

Type E: Acid gases (e.g., sulfur dioxide, hydrogen chloride).

Green:

Type K: Ammonia and organic ammonia derivatives.

Red:

Type CO: Carbon monoxide (used with specific devices that have an end-of-service-life indicator).

Blue:

Type NO: Nitrogen oxides

Brown & Green:

Type AX: Organic gases and vapors with boiling points below 65°C (e.g., low boiling point organic compounds). Note: AX filters are single-use only.

• Combination Filters

Brown/White:

A-P: Organic vapors and particulates.

Grey/White:

B-P: Inorganic gases and particulates.

Yellow/White:

E-P: Acid gases and particulates.

Green/White:

K-P: Ammonia and particulates.

Brown/Grey/White:

A-BE-P: Organic, inorganic gases, and acid gases and particulates.

Olive:

A-BE-K-P: Organic, inorganic gases, ammonia, acid gases, and particulates.

• Other Specific Filters

Olive & Red:

A-BE-K-Hg-P: Organic gases and vapors, inorganic gases, ammonia, mercury vapor, acid gases, and particulates.

Important Considerations

• Markings:

Each cartridge or filter should have clear markings indicating its type and the specific contaminants it protects against. Ensure that the markings are visible and legible.

• Expiration Date:

Cartridges have a shelf life, and expired cartridges should not be used. Check the expiration date before use.

• Fit Testing:

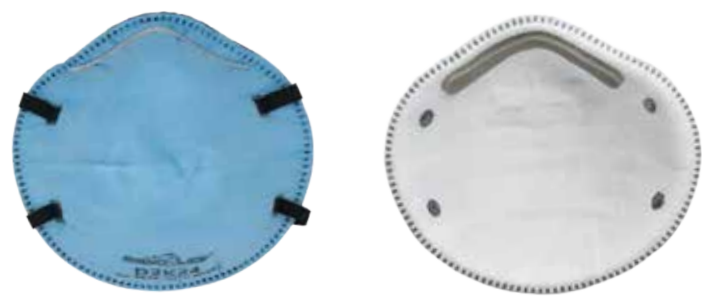
Ensure that the respirator with the selected cartridge fits properly. Conduct regular fit tests to ensure a secure seal.

By adhering to the EN standard color coding system, workers can easily select the appropriate cartridge for their specific needs, ensuring they have the necessary protection against various workplace hazards. Proper training and regular updates on cartridge selection and use are crucial for maintaining safety and compliance in the workplace.

D2K24

Disposable Cup Shape Particulate Mask with Nuisance Level Acid Gas Relief

GB 2626-2019 KP95



Product Specification

Type	Cup Shape
Wearing	Headband
Material	High efficiency BMF
Nose Foam	Yes
Activated Carbon	Yes

Packaging Information

20 Pcs / Box
200 Pcs / Carton

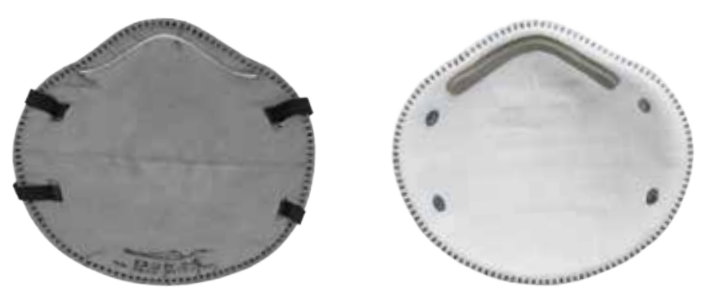
Product SKU	Colour	Inner pack UPC	Carton GTIN
BLSH-FA-H980A	Blue	810148533182	00810148533199



D3K24

Disposable Cup Shape Particulate Mask (Activated carbon) with Nuisance Level Organic Vapor Relief

GB 2626-2019 KP95



Product Specification

Type	Cup Shape
Wearing	Headband
Material	High efficiency BMF
Nose Foam	Yes
Activated Carbon	Yes

Packaging Information

20 Pcs / Box
200 Pcs / Carton

Product SKU	Colour	Inner pack UPC	Carton GTIN
BLSH-FA-H980C	Grey	810148533205	00810148533229



H100

Single Cartridge Half Face Respirator - TPE

CE 2834 EN 140:1998



Product Specification

Product Type	Half Face Piece
Cartridge Type	Single Cartridge
Faceseal	TPE
Connection Type	Snapped
Cool Flow Exhalation Valve	Yes
Head Harness Assembly	3 point adjustable
Strap Material	Spandex

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H4200	OSFM	Grey	810148531331	00810148531348



H200

Single Cartridge Half Face Respirator - Silicone

GB 2890-2022



Product Specification

Product Type	Half Face Piece
Cartridge Type	Single Cartridge
Faceseal	Silicone
Connection Type	Snapped
Cool Flow Exhalation Valve	Yes
Head Harness Assembly	3 point adjustable
Strap Material	Spandex

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H9200	OSFM	Navy Blue	810148531355	00810148531362



H300

Dual Cartridge Half Face Respirator - TPE

CE 2834 EN 140:1998



Product Specification

Product Type	Half Face Piece
Cartridge Type	Dual Cartridge
Face Seal	TPE
Connection Type	Bayonet
Exhalation Valve	Hidden
Head Harness Assembly	3 point adjustable
Strap Material	Spandex
Compatible with ConAer™ SAR System	Yes

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H8300	OSFM	Grey	810148531379	00810148531386



H400

Dual Cartridge Half Face Respirator - Silicone

CE 2834 EN 140:1998



Product Specification

Product Type	Half Face Piece
Cartridge Type	Dual Cartridge
Face Seal	Silicone
Connection Type	Bayonet
Exhalation Valve	Hidden
Head Harness Assembly	3 point adjustable
Strap Material	Spandex
Compatible with ConAer™ SAR System	Yes

Packaging Information

1 Piece / Polybag
20 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H9600	OSFM	Blue	810148531393	00810148531409



H430

Dual Cartridge Half Face Respirator - Silicone

CE 2834 EN 140:1998



Product Specification		Packaging Information
Product Type	Half Face Piece	1 Piece / Polybag
Cartridge Type	Dual Cartridge	20 Pieces / Carton
Faceseal	Silicone	
Connection Type	Bayonet	
Exhalation Valve	Hidden	
Head Harness Assembly	3 point adjustable	
Strap Material	Spandex	
Compatible with ConAer™ SAR System	Yes	

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H8700	OSFM	Blue	810148531416	00810148531423



H450

Dual Cartridge Half Face Respirator - Silicone

CE 2834 EN 140:1998



Product Specification		Packaging Information
Product Type	Half Face Piece	1 Piece / Polybag
Cartridge Type	Dual Cartridge	20 Pieces / Carton
Faceseal	Silicone	
Connection Type	Bayonet	
Exhalation Valve	Hidden	
Head Harness Assembly	3 point adjustable	
Strap Material	Spandex	
Compatible with ConAer™ SAR System	Yes	

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-H8600	OSFM	Grey	810148531430	00810148531447



F500

CE 2834 EN 136:1998 CL2

ProAer®
Reusable Full Face Respirator



Dual Cartridge Full Face Respirator - Silicone

Product Specification

Product Type	Full Face Piece
Cartridge Type	Dual Cartridge
Lens	Polycarbonate
Anti-Fog	Yes
Face Seal	Silicone
Connection Type	Bayonet
Exhalation Valve	Hidden
Head Harness Assembly	4 point adjustable
Strap Material	Silicone
Compatible with ConAer™ SAR System	Yes

Packaging Information

1 Piece / Box
4 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-F8800	OSFM	Navy Blue	810148531454	00810148531461



F600

CE 2834 EN 136:1998 CL2

ProAer®
Reusable Full Face Respirator



Speaking
Diaphragm



Dual Cartridge Full Face Respirator - Silicone



Dual Cartridge Respirator - Silicone

Product Specification

Product Type	Full Face Piece
Cartridge Type	Dual Cartridge
Lens	Polycarbonate
Anti-Fog	Yes
Faceseal	Silicone
Connection Type	Bayonet
Exhalation Valve	Hidden
Head Harness Assembly	6 point adjustable
Strap Material	Silicone
Compatible with ConAer™ SAR System	Yes
Speech Diaphragm	Yes

Packaging Information

1 Piece / Box
4 Pieces / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-PA-F9800	OSFM	Grey	810148531478	00810148531485



Dual side Anti-fog coated
polycarbonate lens



Hidden downward
exhalation design



Six-point adjustable
silicone harness

P101

P2 Class Particulate Filter

GB 2626-2019 KN95



Product Specification

Product Type	Particulate Filter
Protection Class	P2
Cartridge Type	Single Cartridge
Compatible Facepiece	ProAer®-H100, H200
Compatible Retainer	ProAer®-R101
Compatible Cartridge	ProAer®-GF100, GF101

Packaging Information

50 Pieces / Polybag
500 Pieces / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H4N95	810148531331	00810148531348

P102

P2 Class Pre-Filter

GB 2890-2022 KN95



Product Specification

Product Type	Particulate Filter
Protection Class	P2
Cartridge Type	Single Cartridge
Compatible Facepiece	ProAer®-H100, H200
Compatible Retainer	ProAer®-H102
Compatible Cartridge	ProAer®-GF100, GF101

Packaging Information

50 Pieces / Polybag
500 Pieces / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H5PF1	810148533250	00810148533267

P201

P2 Class Particulate Filter

CE 2834 EN 143:2021 P2



Product Specification

Product Type	Particulate Filter
Protection Class	P2
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600
Compatible Retainer	ProAer®-R201
Compatible Cartridge	ProAer®-GF200, GF201, GF202

Packaging Information

10 Pieces / Box
300 Pieces / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8N95	810148533274	00810148533281

PF200

P3 Class Particulate Filter for solid & liquid dust

CE 2834 EN 143:2021 P3



Product Specification

Product Type	Particulate Filter
Protection Class	P3
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
50 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8P100	810148531492	00810148531508

PF200OV

P3 Class Particulate Filter with Nuisance Level Organic Vapor Relief

CE 2834 EN 143:2021 P3



Product Specification

Product Type	Particulate Filter
Protection Class	P3
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
50 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8P100C	810148531515	00810148531522

PF200AG

P3 Class Particulate Filter (Carbon) with Nuisance Level Acid Gas Relief

CE 2834 EN 143:2021 P3



Product Specification

Product Type	Particulate Filter
Protection Class	P3
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
50 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8P100A	810148531539	00810148531546

PF201

P3 Class Particulate Filter

CE 2834 EN 143:2021 P3

Product Specification

Product Type	Particulate Filter
Protection Class	P3
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
40 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8GF100	810148531553	00810148531560



GF100

Organic Vapor Filter - A

CE 2834 EN 14387:2004+A1:2008 A1



Product Specification

Product Type	Gas Filter
Protection against	Organic Vapor
Cartridge Type	Single Cartridge
Compatible Facepiece	ProAer®-H100, H200
Compatible Filter	ProAer®-P101

Packaging Information

1 Piece / Polybag
60 Pieces / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H5001	810148531591	00810148531607

GF101

Organic Vapor/Acid Gas Filter - AE

GB 2890-2022 A1E1



Product Specification

Product Type	Gas Filter
Protection against	Organic Vapor, Acid Gas
Cartridge Type	Single Cartridge
Compatible Facepiece	ProAer®-H100, H200
Compatible Filter	ProAer®-P101

Packaging Information

1 Piece / Polybag
60 Pieces / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H5003	810148531614	00810148531621

GF200

Organic Vapor Filter - A

CE 2834 EN 14387:2004+A1:2008 A1



Product Specification

Product Type	Gas Filter
Protection against	Organic Vapor
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
30 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8001	810148531638	00810148531645

GF201

Organic Vapor/Acid Gas Filter - AE

CE 2834 EN 14387:2004+A1:2008 A1E1



Product Specification

Product Type	Gas Filter
Protection against	Organic Vapor, Acid Gas
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
30 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8003	810148531652	00810148531669

Reusable Respirator Filters

ProAer® Series

GF202

Multi Gas/Vapor filter - ABEK

CE 2834 EN 14387:2004+A1:2008 A1B1E1K1



Product Specification

Product Type	Gas Filter
Protection against	Multi Gas
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
30 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8006	810148531676	00810148531683

GF203

Ammonia Methylamine filter - K

CE 2834 EN 14387:2021 K1



Product Specification

Product Type	Gas Filter
Protection against	Ammonia Methylamine
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
30 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8004	810148535896	00810148535902

GF201P3

Organic Vapor & Acid Gas Filter - AE combined with P2 Filter

CE 2834 EN 14387:2004+A1:2008 A1E1P3 R



Product Specification

Product Type	Combined Gas Filter
Protection against	Organic Vapor, Acid Gas
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
20 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8003P3	810148531690	00810148531706

GF202P3

Multi Gas/Vapor Filter - ABEK combined with P2 Filter

CE 2834 EN 14387:2004+A1:2008 A1B1E1K1P3 R



Product Specification

Product Type	Combined Gas Filter
Protection against	Multi Gas
Cartridge Type	Dual Cartridge
Compatible Facepiece	ProAer®-H300, H400, H430, H450, F500 & F600

Packaging Information

1 Pair / Polybag
20 Pairs / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-PA-H8006P3	810148531713	00810148531720

Reusable Respirators Accessories

ProAer® Series



R101

Retainer for Single cartridge
Particulate Filter



R201

Retainer for Dual cartridge
Particulate Filter



H102

Holder for
Particulate Filter



A201

Adapter for
Particulate Filter



A200

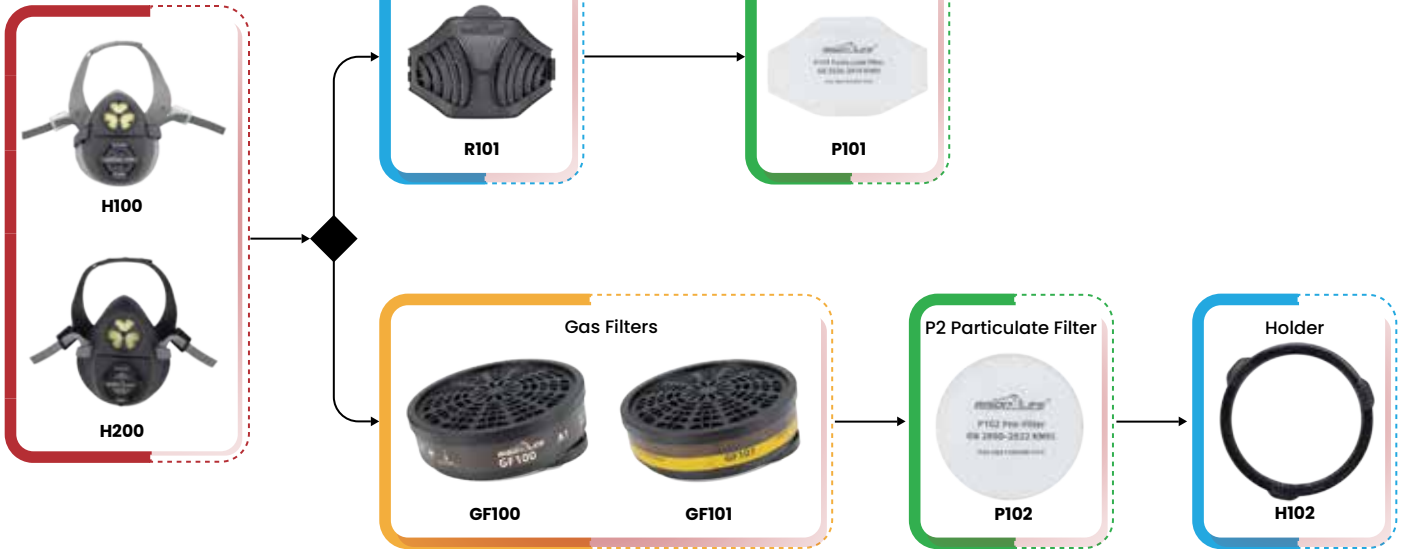
Adapter for
Particulate Filter

Model no.	Product description	Product SKU	Packaging information	Inner pack UPC	Carton GTIN
R101	Retainer for Single cartridge Particulate Filter	BLSH-PA-H4800	10 Pcs / Polybag, 60 Pcs / Carton	810148531577	00810148531584
R201	Retainer for Dual cartridge Particulate Filter	BLSH-PA-H801	20 Pcs / Polybag, 200 Pcs / Carton	810148533298	00810148533304
H102	Holder for Particulate Filter	BLSH-PA-H52CV	10 Pcs / Polybag, 200 Pcs / Carton	810148533311	00810148533328
A201	Adapter for Particulate Filter	BLSH-PA-H603	10 Pcs / Polybag, 200 Pcs / Carton	810148533335	00810148533342
A200	Adapter for Particulate Filter	BLSH-PA-H802	20 Pcs / Polybag, 200 Pcs / Carton	810148533359	00810148533366

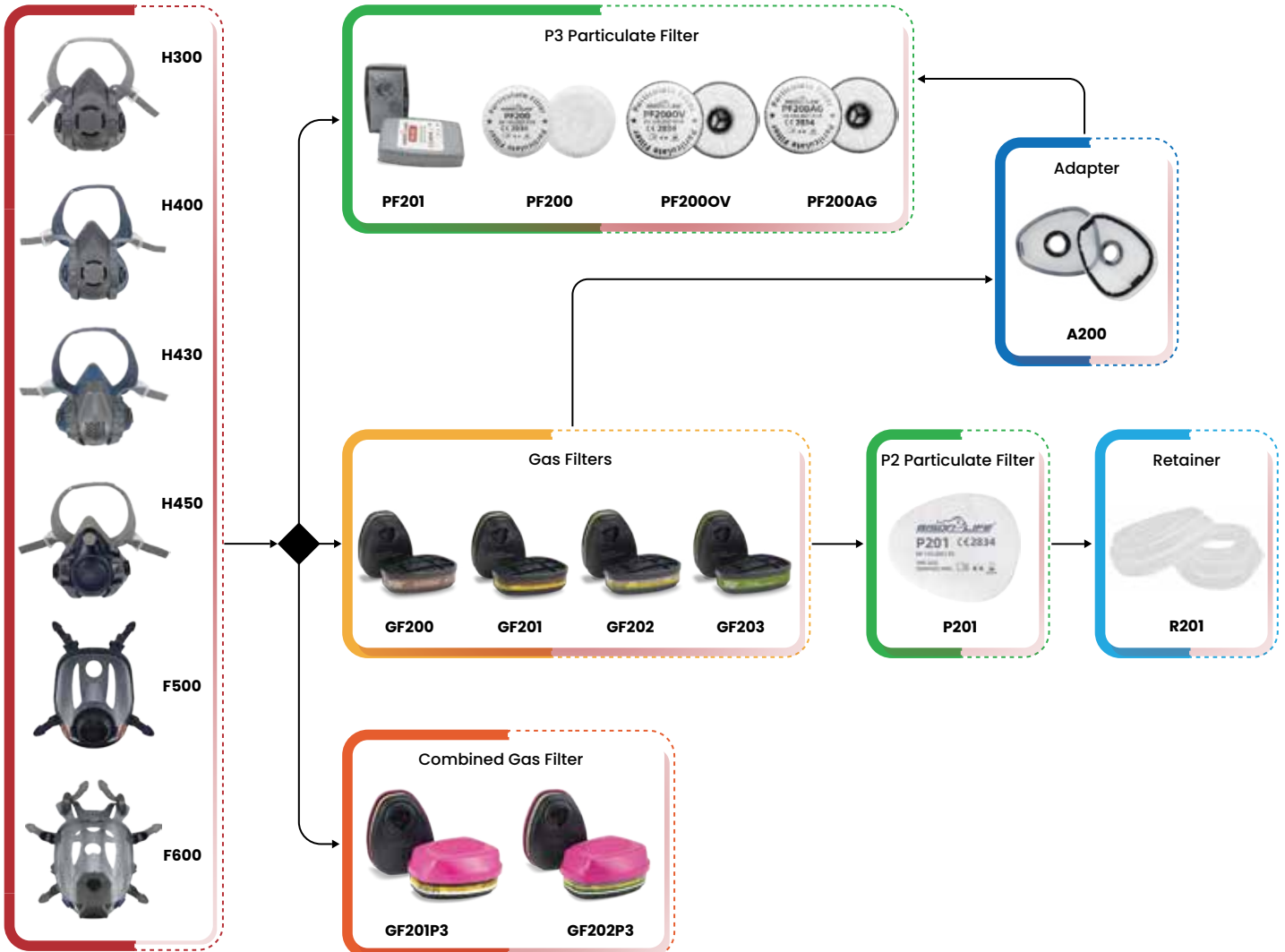
COMPATIBILITY CHART

FOR REUSABLE FACEPIECE

SINGLE CARTRIDGE Reusable Facepiece



DUAL CARTRIDGE Reusable Facepiece





Respirator Fit Testing

What is Respirator Fit Testing?

Respirator fit testing is an important method of ensuring the safety and health of workforce who rely on respirators for protection against airborne hazards. It verifies that the respirator fits properly and provides the intended level of protection, helping to prevent exposure to harmful contaminants. Employers must ensure fit testing is conducted as required to comply with safety regulations and protect their employees.

Why fit testing?

Tight-fitting respirators are designed to reduce the inhalation of airborne hazards. For them to be effective, they must seal properly to the wearer's face, ensuring air passes through the filter rather than through leaks in the faceseal. If leaks are present, contaminated air can enter, potentially exposing the wearer to harmful airborne contaminants. Thus, a proper fit is crucial.

Fit testing verifies that the respirator seals correctly to the wearer's face. It is a legal requirement in many countries, including the U.S., and is increasingly adopted as a best practice worldwide, even where not legally mandated. Fit testing not only confirms the respirator's suitability for the wearer but also provides an opportunity to educate users on proper usage, ensuring better protection against airborne hazards.

When is the Respirator Fit Testing required?

Respirator fit testing is essential to ensure that respirators provide adequate protection. It is required in the following situations:

- Before Initial Use
- When Changing Respirator Models
- If the Employee Reports Fit Issues
- After Changes in Workplace Conditions
- If the user's face profile changed

Fit testing should be performed at least once a year to ensure that the respirator continues to fit properly and provide the necessary protection.

Fit testing is a legal requirement in many countries, including the U.S., under OSHA regulations (29 CFR 1910.134). Employers must comply with these regulations and conduct fit testing as specified.

Types of Fit Testing

- Qualitative Fit Testing (QLFT)
- Quantitative Fit Testing (QNFT)



Qualitative Fit Testing (QLFT)



Qualitative fit testing (QLFT) is a pass/fail test based on the wearer's subjective assessment of any leakage through the face seal region by detecting the introduction of bitter- or sweet-tasting aerosol as a test agent. QLFT methods are suitable for disposable and reusable half-facepiece respirators; they are not suitable for full-face respirators. Although this type of test is based on subjective detection and response by the wearer of the RPE, it is important that it is administered by a fit tester competent in using this method.



Quantitative Fit Testing (QNFT)



Quantitative fit testing (QNFT) provides a numerical measure of how well a facepiece seals against a wearer's face; this is called a fit factor. These tests give an objective measure of face fit. QNFT methods are suitable for disposable and reusable half-facepiece and full-facepiece respirators.



ConAer™

Powered Air Purifying
Respirator



PAPR

A Critical Aspect of Workplace Safety

Understanding the Importance of Powered Air-Purifying Respirators (PAPR)

ConAer™ range of Powered Air-Purifying Respirators (PAPR) are essential for protecting workers in environments where air quality is compromised due to hazardous dust, fumes, vapors, or gases. By providing a continuous supply of filtered air, PAPRs enhance safety and comfort, particularly in challenging work conditions.

Why PAPR Matters?

- **Comprehensive Respiratory Protection**

Continuous Air Supply: PAPRs deliver a steady stream of clean, filtered air to the wearer, ensuring a consistent supply of breathable air.

Effective Filtration: Equipped with high-efficiency filters, PAPRs protect against a wide range of contaminants, including particulate matter, gases, and vapors.

- **Enhanced Comfort**

Reduced Breathing Effort: Unlike traditional respirators that rely on the wearer's breathing effort, PAPRs reduce the physical effort required to breathe by actively supplying filtered air.

Cooling Effect: The airflow from a PAPR system helps to keep the wearer cool, reducing heat stress and improving comfort during prolonged use.

- **Improved Safety**

Protection Against High Levels of Contaminants: PAPRs are crucial in environments with high concentrations of harmful substances, where other forms of respiratory protection may be inadequate.

High Protection Factor: PAPRs provide a high level of protection compared to other respirators, ensuring better safety in hazardous work environments.

Key Features of PAPR Systems

- **Filter Types and Efficiency**

Particulate Filters: Capture dust, fumes, and aerosols. HEPA filters are commonly used for high-efficiency particulate air filtration.

Gas and Vapor Filters: Protect against specific gases and vapors. These can include activated carbon filters for gases or specialized filters for specific chemical hazards.

Combination Filters: Some PAPRs use filters that combine both particulate and gas/vapor protection.

- **Airflow Rate**

Flow Rate: The airflow rate of a PAPR system is typically between 170 to 210 liters per minute, ensuring adequate ventilation and comfort.

Adjustability: Some systems allow for adjustable airflow settings to match the wearer's needs and the work environment.

- **Battery Life and Power Source**

Battery Types: PAPRs are usually powered by rechargeable batteries, with some models incorporating solar assists to extend battery life.

Runtime: Battery life should be sufficient for the entire work shift, with easy recharging and replacement options.

- **Comfort and Fit**

Headgear: PAPR systems come with various headgear options, including full-face masks, hoods, and helmets. The choice depends on the level of protection required and comfort preferences.

Adjustability: Ensure the system is adjustable for a secure fit and comfortable use, reducing strain on the wearer.

- **Maintenance and Durability**

Filter Replacement: Regular replacement of filters is essential for maintaining effective protection. Choose systems with easy access for filter changes.

Durability: The PAPR unit and components should be robust enough to withstand the conditions of the work environment.





Key EN Standards for PAPR Systems

● EN 12941 (Respiratory protective devices - Powered air purifying respirators)

Scope:

This standard specifies the requirements for the design, performance, and testing of powered air-purifying respirators used to protect against particulate contaminants.

Requirements:

Performance: Defines the minimum requirements for the protection provided by PAPRs against airborne particles.

Filter Efficiency: Specifies the efficiency of particulate filters (e.g., P3 filters) in removing contaminants from the air.

Airflow Rate: Ensures the PAPR system provides a sufficient airflow rate to maintain comfort and protection.

Comfort: Addresses aspects such as the fit and comfort of the PAPR system to ensure it can be worn effectively for extended periods.

Leakage: Tests for the ability of the PAPR system to prevent leakage of contaminants into the breathing zone.

Maintenance: Includes requirements for the maintenance and durability of the PAPR system, including ease of filter replacement.

Key points about EN 12941 include:

● Types of Devices:

The standard covers powered air-purifying respirators (PAPRs) that consist of a motor-driven fan unit that draws in contaminated air, passes it through a filter, and supplies clean air to the helmet or hood.

● Protection Classes:

There are different protection classes defined by the standard, typically denoted as TH1, TH2, and TH3. These classes indicate the level of protection provided by the device:

TH1: Lowest level of protection.

TH2: Intermediate level of protection.

TH3: Highest level of protection.

● Performance Criteria:

The standard outlines various performance criteria that the devices must meet, including:

Breathing resistance.

Filter efficiency.

Battery performance (for powered devices).

Field of vision for the wearer.

Inward leakage tests to ensure the device effectively seals against the wearer's face.

PAPR Filter Schematic

Constant air supply design delivers constant airflow even if battery is low or filter is clogged. Lightweight, portable, and easy-to-use, providing excellent respiratory protection.

01 Durable front cover

Protects blower unit from being damaged by high temperature and high-speed impact objects.

02 Spark screen

Blocks metal splashes from igniting other filter components.

03 Pre-filter

Blocks large particles and prolong service life of particle filter.

04 Particle filter

High-efficiency particle filter, filtration efficiency up to 99.997%.

05 Gas filter

Optional ABEK1 / A1 / A2 for protection against organic, inorganic and acid gas vapors, gas filter sold separately.

06 Odor filter

Eliminates unpleasant odors (not required if a gas filter is installed), odor filter sold separately.

07 Fast rechargeable lithium battery

Standard battery can be fully charged within 1.2 hours, battery duration is 10 hours (170L/min airflow rate). Optional extended battery can be fully charged within 2.5 hours, battery duration is 19 hours (170L/min airflow rate).

08 High quality brushless motor

Low power consumption, long service life, high static pressure and low noise.

09 Optional airflow rates

Two levels of airflow rate (170L/min and 210L/min) available.

10 Hose

Connect respirator and welding helmet, delivering clean helmet for clean air delivery.



CA2100

CE 2834 EN 12941

Triple-Alarm System

The warning light will flicker to indicate clogged filter or low battery, while the respirator will sound an alarm and vibrate.

Real-Time Monitoring

Real-time monitoring displays the air-flow, battery power, particle filter loading for the user.

Battery Indicator

Filter Warning

ON / OFF Button

Airflow Indicator

Various Filter Options

User can choose P3/gas/odor filter according to different applications and work environments.

Intelligent Control

Respirator motor automatically adjusts the power and air-flow depending on the filter box loading.

High-Performance Motor

High-quality brushless motor, strong air volume, low power consumption, ultra-quiet running and up to 3 times longer motors life.

Powered Air Purifying Respirator - Turbo Unit

Product Specification

Air Flow Rate (Low speed)	170+lpm
Air Flow Rate (High speed)	210+lpm
Battery type	Rechargeable Li-ion battery
Charge time	1 hour
Battery life	At least 500 charges
Fast Charging Std Battery duration	9 hours at 170+lpm; 5-6 hours at 210+lpm
Fast Charging Heavy Dusty Battery duration	15 hours at 170+lpm; 9 hours at 210+lpm
Weight	1020g (Turbo Unit + Fast Charging Standard Battery)
Filter efficiency	> 99.997%
Operating temp.	-5°C to 55°C
Storing temp.	-10°C to 55°C
Relative operating humidity (R.H.)	< 90%
Relative storage humidity (R.H.)	< 85%
Alarm	Audible, Visible, Vibration

Packaging Information

1 Set / Box

Package Includes

- Turbo Unit x 1
- Fast Charging Standard Battery x 1
- Battery Charger x 1
- P3 Filter (TH3 P Filter) x 1
- Standard Waist Belt x 1

Product SKU	Product Description	Inner pack UPC
BLSH-CA-2100	PAPR Systems with standard waist belt	810148536879



Powered Air Purifying Respirator

ConAer™ Series

CA2100-ECB

CE 2834 EN 12941

The CA2100-ECB ConAer Powered Air Purifying Respirator (PAPR) is engineered for pharmaceutical environments, offering high-efficiency respiratory protection without compromising on comfort or hygiene.

Packaging Information

1 Set / Box

Package Includes

Turbo Unit x 1
Fast Charging Standard Battery x 1
Battery Charger x 1
Particle Filter (TH3 P Filter) x 1
Easy Clean Belt x 1
Std. Breathing Tube x 1
Breathing Tube White Sleeve x 1
Soft Hood x 1



Product SKU	Product Description	Inner pack UPC
CA2100-ECB	PAPR Systems with soft hood & Easy Clean Belt	810188141194



Parts & Accessories

Product SKU	Model No.	Product Description	Inner Pack Qty	Inner pack UPC
BLSH-CA-BM2000	CABM2000	CA2100 Body alone	1pc/bag	810148536886
BLSH-CA-2101	CA2101	Charging Standard Lithium Battery 14.4V, 3.2 Ah, 46.08 Wh	1pc/bag	810148536893
BLSH-CA-2111	CA2111	Battery Charger - Class 2	1pc/box	810148536909
BLSH-CA-P302	CAP302	Particulate Filter (P3)	1pc/box	810148536916
BLSH-CA-PF01	CAPF01	Pre-Filter	5pcs/box	810148536923
BLSH-CA-SC01	CASC01	Spark Screen	10pcs/bag	810148536930
BLSH-CA-FC01	CAFC01	Filter Cover	1pc/bag	810148536947
BLSH-CA-OR01	CAOR01	O-Ring	2pcs/bag	810148536954
BLSH-CA-BTA01	CABTA01	Standard Breathing Tube with Air Indicator	1 Set/bag	810148536961
BLSH-CA-BT01	CABT01	Standard Breathing Tube	1pc/bag	810148536978
BLSH-CA-AI01	CAAI01	Air Indicator for standard breathing tube	1pc/bag	810148536985
BLSH-CA-BTA02	CABTA02	Quick Release Breathing Tube with Air Indicator	1 Set/bag	810148536992
BLSH-CA-BT02	CABT02	Quick Release Breathing Tube	1pc/bag	810148537005
BLSH-CA-AI02	CAAI02	Air Indicator for Quick release breathing tube	1pc/bag	810148537012
BLSH-CA-BTCW	CABTCW	Breathing Tube Cover - White	1pc/bag	810148537142
BLSH-CA-BTCG	CABTCG	FR Breathing Tube Cover	1pc/bag	810148537159
BLSH-CA-SS01	CASS01	Shoulder Strap	1pc/bag	810148537029
BLSH-CA-BC02	CABC02	Easy Clean Belt Cushion	1pc/bag	810148537036
BLSH-CA-BC03	CABC03	High End Waist Belt (Flame Retardant)	1pc/bag	810148537043
BLSH-CA-GF01	CAGF01	Gas Filter A2	1pc/bag	810148537050
BLSH-CA-GF02	CAGF02	Gas Filter A1B1E1K1	1pc/box	810148537067
BLSH-CA-OF01	CAOF01	Odour Filter	1pc/box	810148537074
BLSH-CA-2102	CA2102	Fast Charging Heavy Duty Lithium Battery 14.4V, 6.4 Ah, 92.16 Wh	1pc/box	810148537081
BLSH-CA-BC01	CABC01	Standard Waist Belt	1pc/bag	810148537098
BLSH-CA-BP01	CABP01	Back Pack	1pc/bag	810148537104
BLSH-CA-SH300	SH300	Soft Hood with Shroud	1pc/bag	810148537111
BLSH-CA-SH400	SH400	Soft Hood with long Shroud	1pc/bag	810148537128
BLSH-CA-HH500	HH500	Hard Hood	1pc/bag	810148537135

Parts & Accessories

Turbo Unit



CA2100
PAPR Turbo Unit Body

Filter



CAP302
Particle filter (P3 filter)



CAGF01
Gas Filter A2 with
NFC Label



CAGF02
Gas Filter A1B1E1K1
with NFC Label



CAOF01
Odour Filter with
NFC Label

Battery & Charger



CA2101
Fast Charging Standard
Lithium Battery



CA2102
Fast Charging Heavy Duty
Lithium Battery



CA2111
Battery Charger

Breathing Tube & Sleeve



CABT01
Standard
Breathing Tube



CABT02
Quick Release
Breathing Tube



CABTCG
FR Breathing Tube Cover



CABTCW
Breathing Tube Cover

Belt



CASS01
Shoulder Strap



CABC02
Standard Belt Cushion



CABC01
Standard Waist Belt



CABC03
High End Waist Belt
(Flame Retardant)



CABP01
Turbo Unit Back Pack

Hood / Face Shield & Welding Helmet



W400 Air
Auto Darkening
Welding Shield



W500 Air
Flip-up Auto Darkening
Welding Shield



HH500
Hard Hood

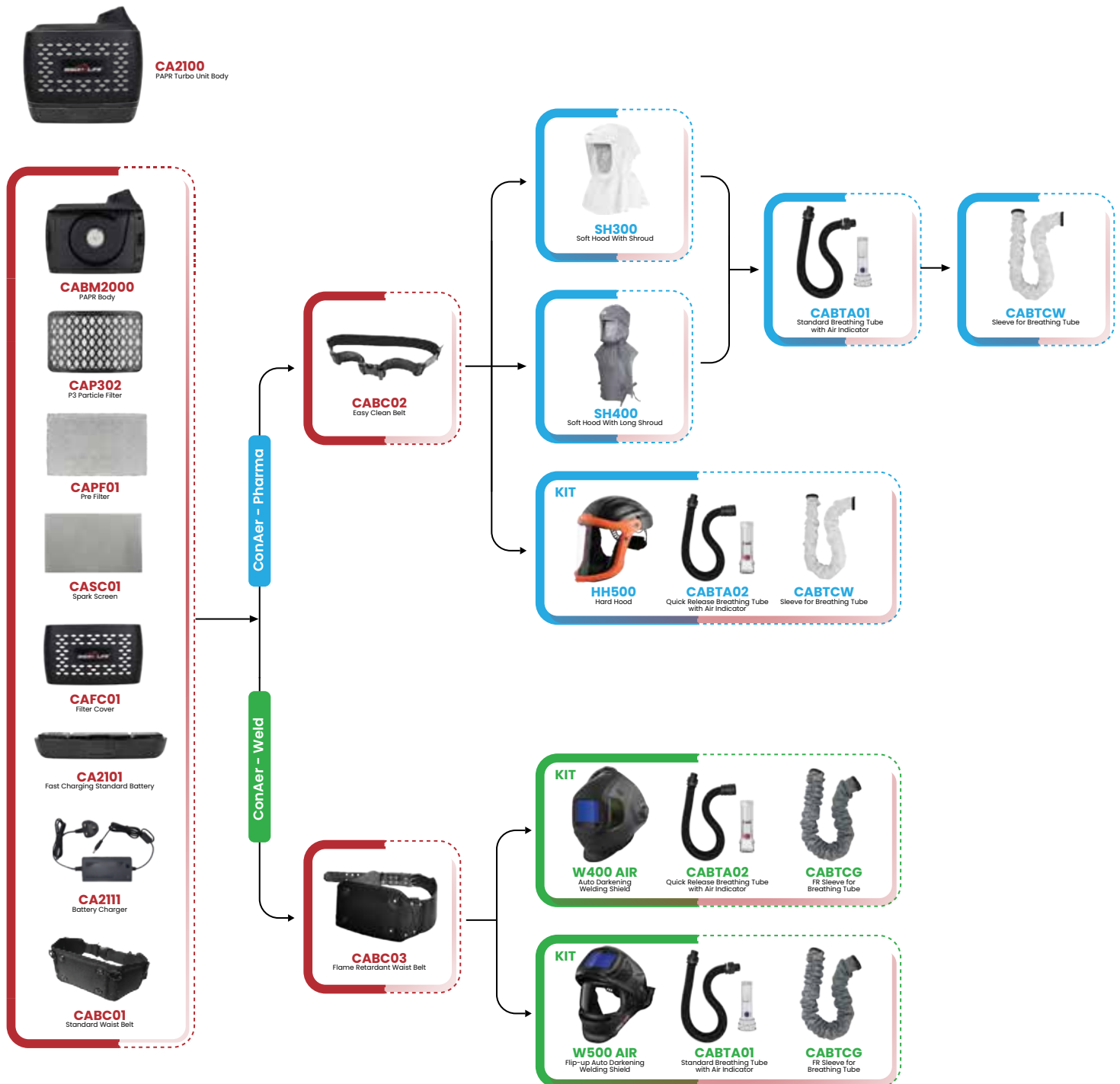


SH300
Hood with
Shroud



SH400
Hood with
long Shroud

PAPR CONFIGURATIONS



Filter Options



Battery Options







Filter Options

TM3 Particulate Filter and Gas Cartridge Options

Silicone Mask & ABS Body

Silicone Mask and ABS Body respirator main unit for Easy Cleaning and Comfortable Wear.

Speaking Diaphragm

Equipped with Speaking Diaphragm for Enhanced Auditory Perception and Increased Work Efficiency

Dual Alarm

Sound and Light for Safe Operation Every Time

CA1000

CE 2834 EN 12942

Powered Adaptive Respirator

Airflow adjusts according to breathing frequency

Product Specification

Air Flow Rate	Adaptive Breathing (Tested at No Less Than 65 lpm)
Noise Level	60dB
IP Rating	IP54
Indicators	Low Battery Indicator, Sound and Light Alarm, Electromagnetic Compatibility
Operating temp.	-5°C to 55°C
Storage temp.	-10°C to 65°C, 20% to 80% RH
Std Battery duration	>8 hours
Charging time for Std Battery	4.5 hours
Battery life	At least 500 charges
Particulate filter standards	CE: TM3
Gas filter standards	CE: A1/A1B1E1K1
Filtration Efficiency	>99.95%
Inhalation resistance	≤350 Pa (when powered on)
Exhalation resistance	≤700 Pa (when powered on)



ConAer™

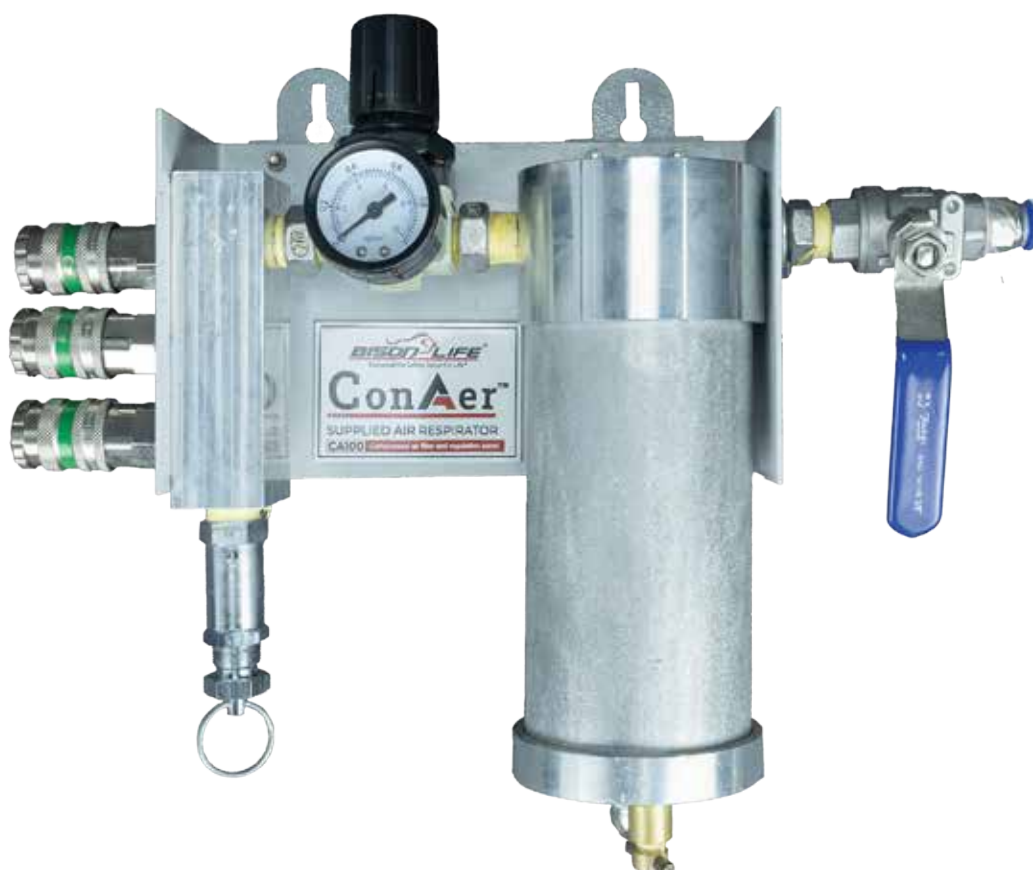
Half Face Intelligent
Powered Air Purifying Respirator



HYBRID
TECHNOLOGY

CA100

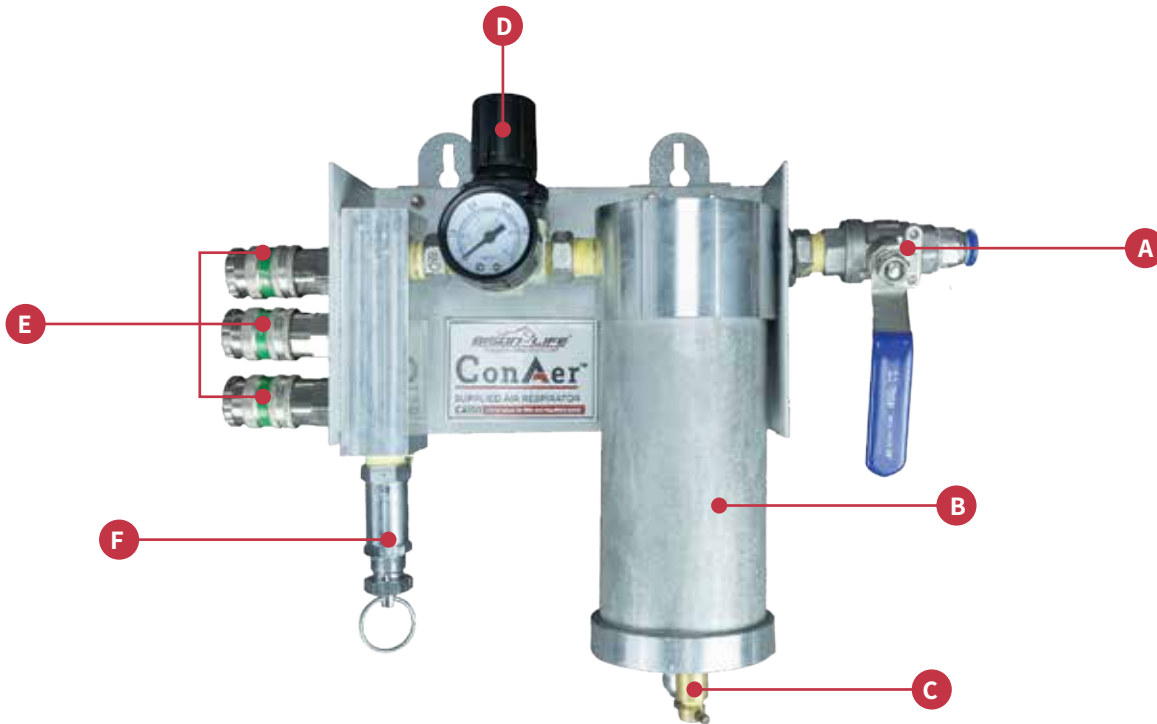
Single Stage Filtration Supplied Air Respirators



ConAer - CA100 Filter and Regulator Panel is a compressed breathing air purifier system designed to help Applications remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

Inlet pressure (max.)	150 psi static
Rated air flow (max.)	50 scfm (1416 L/min) at 105 psi
Inlet pressure (recommended)	90 to 120 psi (6.2-8.3 bar)
Outlet pressure range	0 to 115±5 psi (0 to 7.2±0.34 bar)



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet-On/Off Valve (A). When the On/Off handle is down, airflow is restricted from entering the SAR filter assembly.

2. Single Stage Filtration:

- The Filter and Regulator Panel contains a single filter (B) embedded with carbon layer designed to remove liquid, particles and nuisance levels of odour.
- Liquid contaminants are trapped in the filter assembly and expelled through the drain valve (C).



3. Pressure Regulator:

The air is then passed through the air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of clean breathing air such as compressed air systems or bottled air
- No batteries to maintain
- Cost effective respiratory protection for All-Day use

4. Outlet Valve:

- Three standard quick coupling (E) are ready to supply air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are incompatible with outlets for other gas systems to prevent inadvertent servicing of airline respirators with non-respirable gases or oxygen.
- Various pre-assembled hose kit can connect to the filter panel quick coupling.

5. Pressure Relief Valve:

- The final component of the panel, the pressure relief valve (F), prevents pressure at the hose connection from exceeding 110 psi (± 5 psi).

CA300A & CA 300M

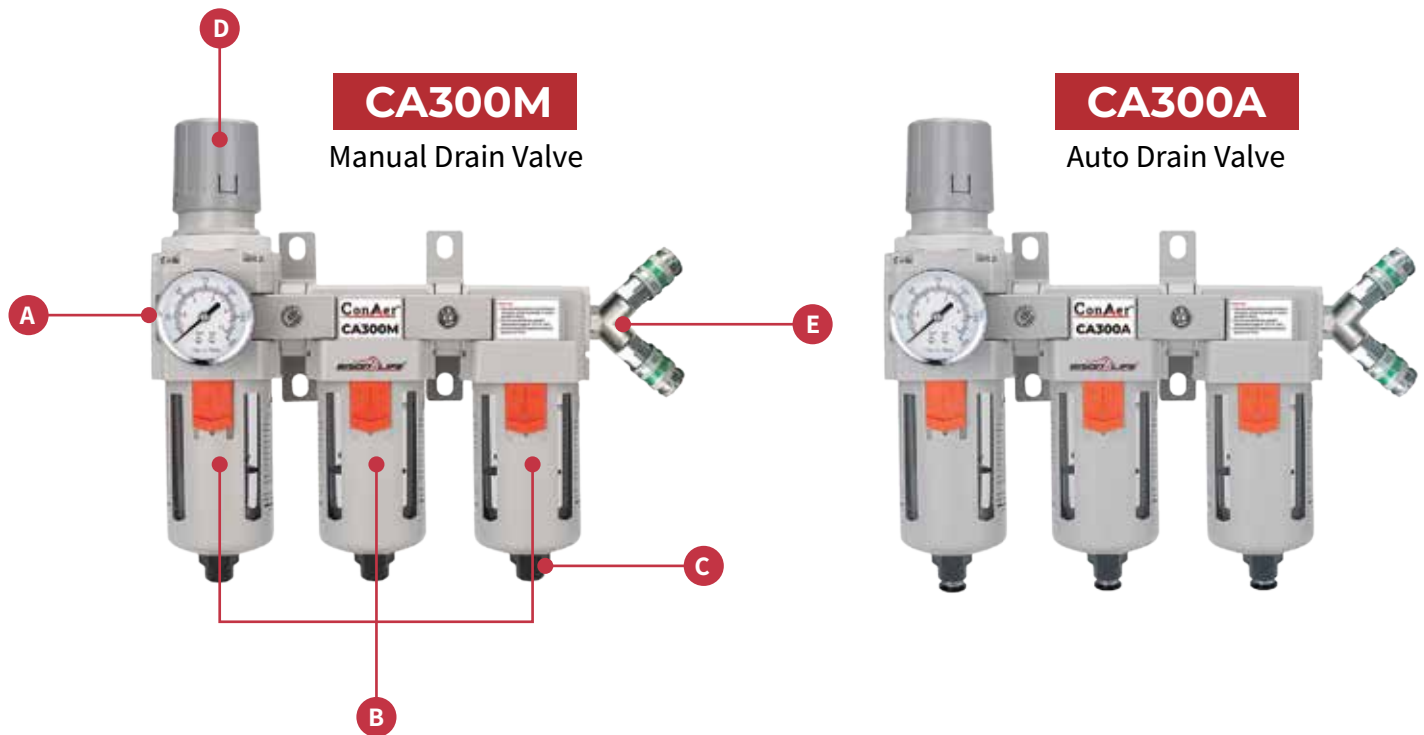
Three Stage Filtration Supplied Air Respirators



ConAer - CA300 Series Filter and Regulator Panel is a compressed breathing air purifier system designed to help remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

Inlet pressure (max.)	150 psi static
Rated air flow (max.)	50 cfm (1416 L/min) at 105 psi
Inlet pressure (recommended)	90 to 120 psi (6.2-8.3 bar)
Outlet pressure range	0 to 115±5 psi (0 to 7.2±0.34 bar)



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet point 1/2" female thread port (A).

2. Three Stage Filtration:

- The Filter and Regulator Panel contains three filters (B) designed to remove liquid droplets, particles, and nuisance odors.
- Liquid contaminants are trapped in the filter assembly and expelled through the auto drain valve (CA300A) or Manual (CA300M) (C).
- It contains air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

3. Filter Panel

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of breathable compressed air system or air cylinder
- No battery requirement to maintain
- Cost-effective respiratory protection for All-Day use

4. Couplings:

- It has CEJN 342 series quick couplings (E) that are ensure to supply breathing air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are compatible with Bisonlife provided breathing air hose for SAR application only.

5. Filter Elements:

5 μ m Brass filter element (CA301B): Excellent filtration performance, longer life and possibility to reuse

0.5 μ m filter element (CA301C): Effective filter out smaller particles and coalescing filter effect to eliminate water & oil droplets from the air stream.

0.01 μ m filter element (CA301P): Effective filter out the smallest particles and odor from the air stream.



CA301B

CA301C

CA301P

CA300AFI

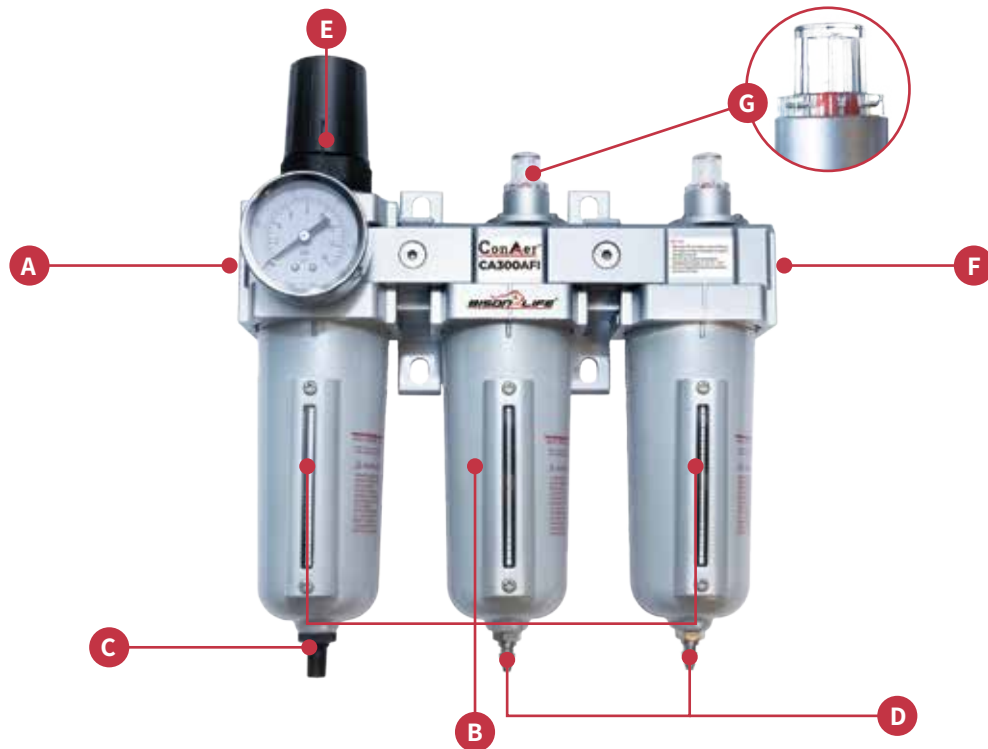
Three Stage Filtration Supplied Air Respirators



ConAer - CA300AFI Filter and Regulator Panel is a compressed breathing air purifier system designed to help remove or reduce selected contaminants that are found in standard compressed airlines.

Specification

Inlet pressure (max.)	150 psi static
Rated air flow (max.)	50 cfm (1416 L/min) at 105 psi
Inlet pressure (recommended)	90 to 120 psi (6.2-8.3 bar)
Outlet pressure range	0 to 115±5 psi (0 to 7.2±0.34 bar)



1. Air Entry:

- Air entering the filtration system at the inlet may be contaminated with oil, water, dirt, rust, scale and vaporous hydrocarbons.
- Air enters the panel through the Air Inlet point 1/2" female thread port (A).

2. Three Stage Filtration:

- The Filter and Regulator Panel contains three filters (B) designed to remove liquid droplets, particles, and nuisance odors.
- Liquid contaminants are trapped in the filter assembly and expelled through the auto drain valve (C) manual drain valve (D).
- It contains air pressure regulator (D), which is used to adjust the air pressure going to the respirators.

3. Filter Panel

- Maximum capacity of 50 cfm at 105 psi,
- Require a source of breathable compressed air system or air cylinder
- No battery requirement to maintain
- Cost-effective respiratory protection for All-Day use

4. Couplings:

- It has CEJN 342 series quick couplings (E) that are ensure to supply breathing air to helmets, hoods or tight-fitting facepieces.
- Quick couplings are compatible with Bisonlife provided breathing air hose for SAR application only.

5. Filter Elements:

5 µm Brass filter element: Excellent filtration performance, longer life and possibility to reuse

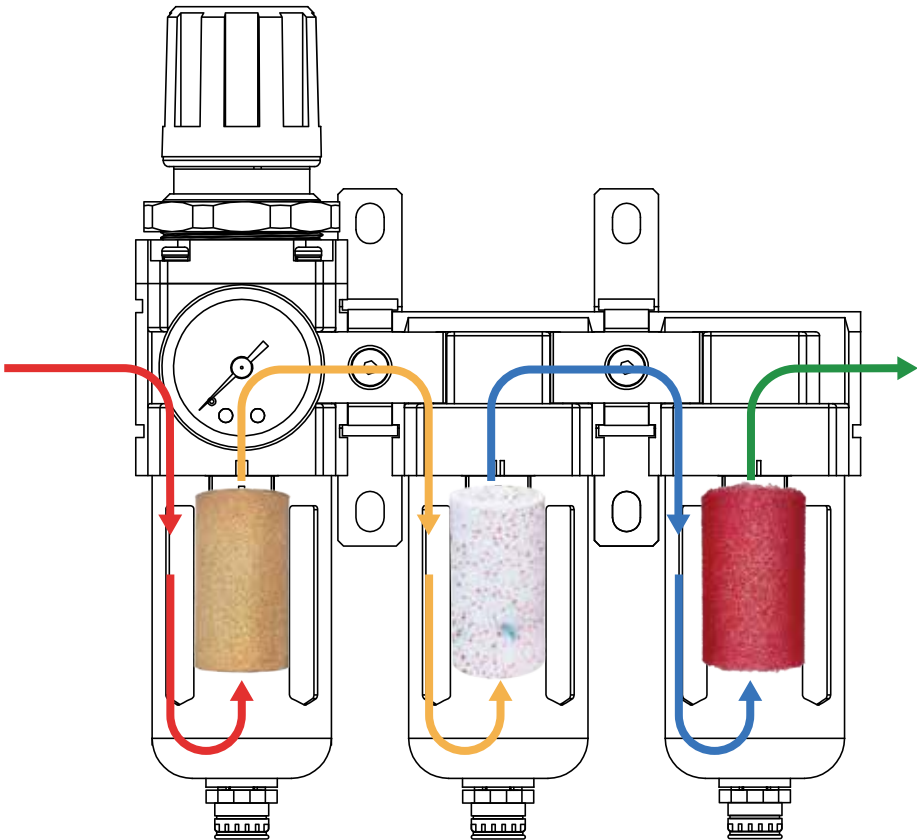
0.5 µm filter element: Effective filter out smaller particles and coalescing filter effect to eliminate water & oil droplets from the air stream.

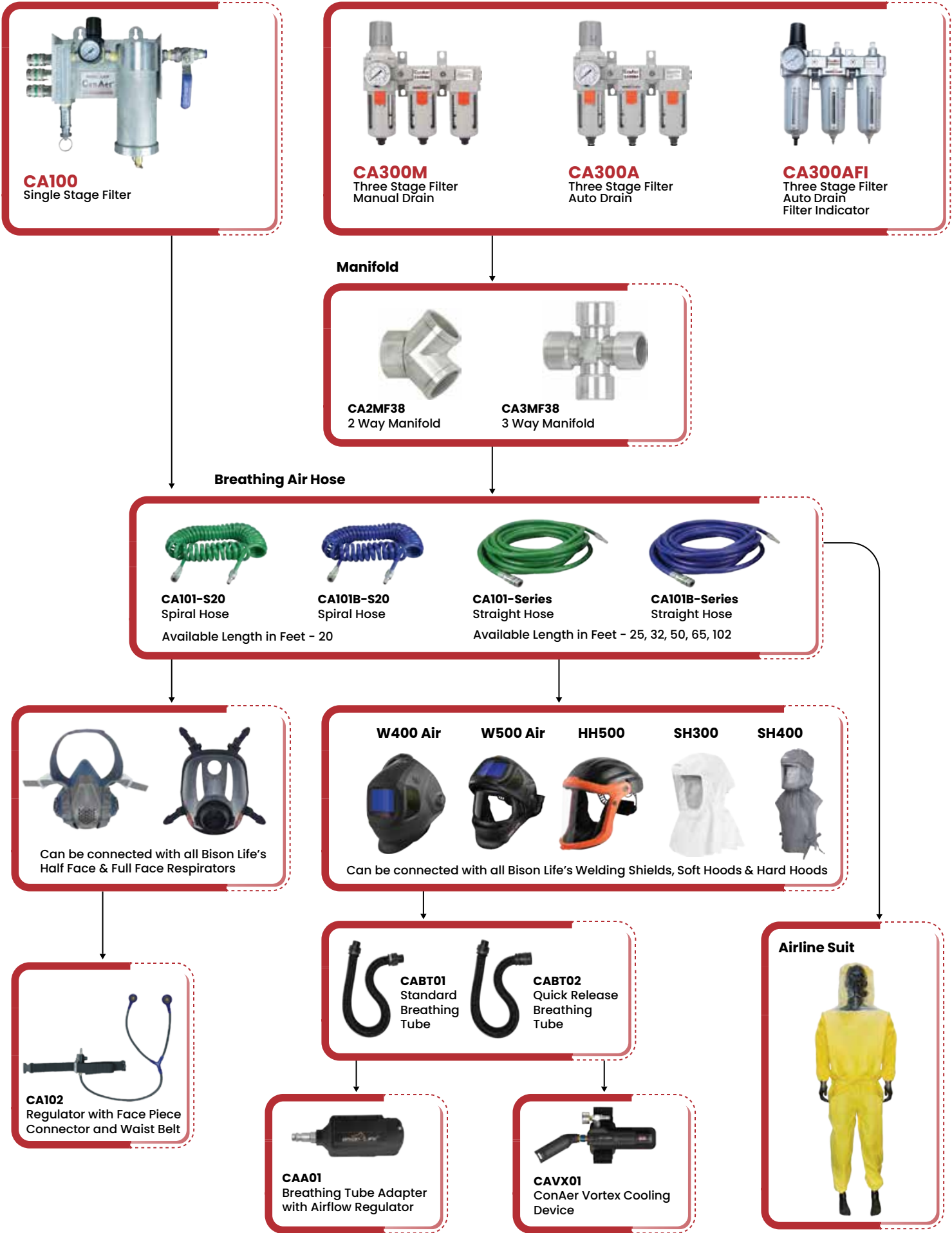
0.01 µm filter element: Effective filter out the smallest particles and odor from the air stream.



6. Filter Change Indicator:

- The filter change indicators (G) signals when the filter element needs to be replaced.
- Whenever the red indicator pops up, the element must be replaced.







WELDING SHIELD

Weld Vison[®]

Welding Shield

Essential For Workplace Safety

Why Welding Shields Matter?

WeldVison™ range of welding shields are a crucial part of personal protective equipment (PPE) for anyone involved in welding activities. They protect the welder's face and eyes from severe hazards such as intense light, sparks, and harmful radiation. Proper use of welding Shields can prevent serious injuries and ensure a safer working environment.

Understanding the Importance

Welding produces intense ultraviolet (UV) and infrared (IR) radiation, as well as bright visible light that can cause eye injuries and skin burns. Prolonged exposure to these elements without adequate protection can lead to conditions like "welder's flash" (photokeratitis), cataracts, and long-term skin damage. Welding Shields provide a barrier against these dangers, making them indispensable for welders.

Types of Welding Shields

Passive Welding Shields

Fixed Shade Lens: These Shields have a fixed shade lens, usually shade 10, which provides constant protection. They are simple, durable, and often more affordable.

Manual Flipping: Welders must flip the Shield up to inspect the weld and flip it down before striking an arc, which can be cumbersome but ensures continuous protection during welding.



Auto-Darkening Welding Shields

Variable Shade Lens: These Shields automatically adjust the lens shade based on the arc intensity, providing flexibility and ease of use.

Sensitivity and Delay Controls: Allow customization of how quickly the lens darkens and returns to its normal state, which enhances comfort and productivity.

Battery-Powered with Solar Assist: Many auto-darkening Shields are powered by batteries, often supplemented by solar cells to extend battery life.



Key Features to Consider

● Lens Shade

Shade Range: Ensure the Shield covers the appropriate shade range for the type of welding you perform (typically shades 9-13 for most welding applications).

Adjustability: Variable shades offer flexibility for different welding processes and environments.

● Viewing Area

Size: Larger viewing areas provide better visibility and reduce the need for head movement, improving comfort and precision.

Clarity: Look for Shields with high optical clarity ratings (1/1/1/1 is the best rating) for clear and undistorted views.

● Safety Standards

Compliance: Ensure the Shield meets safety standards such as ANSI Z87.1 in the US or EN 175 in Europe, which certify the Shield's protective capabilities.

● Comfort and Fit

Headgear Adjustability: Well-designed headgear allows for adjustments to ensure a secure and comfortable fit.

Weight: Lighter Shields reduce neck strain during long welding sessions, improving overall comfort.

● Durability

Materials: Shields made from robust materials like polyamide or fiberglass offer enhanced durability and protection.

Impact Resistance: Ensures the Shield can withstand accidental drops and impacts without compromising safety.

Benefits of Using Welding Shields

● Eye Protection

Shields eyes from harmful UV and IR radiation, preventing injuries like welder's flash and cataracts.

● Facial Protection

Protects the face from sparks, spatter, and heat, reducing the risk of burns and other injuries.

● Improved Visibility

Auto-darkening Shields improve visibility and accuracy, enhancing the quality of work and reducing errors.

● Enhanced Comfort

Modern Shields are designed for comfort, with features like adjustable headgear and lightweight materials, making them suitable for extended use.

Welding Shield Standards: Ensuring Safety and Performance

Welding Shields are subject to various standards to ensure they provide adequate protection and performance. These standards specify requirements for optical clarity, impact resistance, switching speed, and more. Below are key standards relevant to welding Shields.

Key aspects of the EN 166 standard

Impact Resistance: Eyewear must provide adequate protection against high-speed particles and projectiles, ensuring they do not shatter upon impact.

Optical Quality: Lenses must have minimal optical distortion to provide clear vision without causing discomfort or eye strain.

Protection Against Ultraviolet (UV) Radiation: Some eyewear may offer UV protection to shield the eyes from harmful UV rays, which can cause long-term damage to the eyes and surrounding skin.

Frame Durability: Frames should be robust and capable of withstanding mechanical stresses without breaking or deforming.

Comfort and Fit: Eyewear should be comfortable to wear for extended periods, with adjustable features to ensure a secure and personalized fit for different users.

Resistance to Chemicals and Liquids: Eyewear may be tested for resistance to various chemicals and liquids, depending on the intended use and workplace hazards.

Marking and Labeling: Each piece of eyewear must be marked with relevant information, including the manufacturer's details, lens properties (e.g., optical class, UV protection), and compliance with the EN 166 standard.

Key Aspects of ISO 16321-1:2021

● Adaptability to Emerging Risks:

ISO 16321-1:2021 addresses emerging risks, such as protection against ultraviolet and infrared radiation, which may not be fully covered by EN166:2001 but under other standards such as EN170, EN171. This guarantees more complete protection in constantly changing work environments since ISO 16321-1:2021 covers them all.

● Personalized Risk Assessment:

The new standard places strong emphasis on the assessment of specific risks in the workplace, allowing for more precise selection of protective devices. This leads to more effective and personalized protection for workers.

● Labeling & Marking Improvements:

ISO 16321-1:2021 establishes detailed requirements for the labeling and marking of eye protection devices, facilitating quick and clear identification of the safety features provided.

● Incorporating Technological Advances:

By integrating the latest technological advances and scientific discoveries, the standard ensures that eye protection products are at the forefront of safety, leveraging innovations for greater effectiveness.

● ANSI Z87.1 (American National Standards Institute)

Scope: This standard specifies the design, performance, and marking of eye and face protection devices, including welding Shields, used in occupational and educational settings.

Requirements:

Impact Resistance: Shields must withstand impact from high-velocity particles.

Optical Clarity: Ensures minimal distortion and high optical quality.

UV/IR Protection: Lenses must provide protection from ultraviolet (UV) and infrared (IR) radiation.

Auto-Darkening Filters: Specifies switching speed, shade range, and light state requirements for auto-darkening Shields.

● EN 175 (European Standard)

Scope: This standard specifies safety requirements and testing for equipment used to protect the eyes and face during welding and related processes.

Requirements:

Mechanical Strength: Shields must resist impact and penetration.

Field of Vision: Ensures a wide and clear field of vision for the welder.

Thermal Resistance: Shields must withstand high temperatures and flames.

Electrical Insulation: Ensures protection against electrical hazards during welding.

● EN 379 (European Standard)

Scope: This standard focuses on auto-darkening welding filters and specifies requirements for their optical and protective properties.

Requirements:

Optical Classes: Ratings for optical quality, diffusion of light, variations in luminous transmittance, and angle dependence of luminous transmittance.

Switching Speed: Specifies the time it takes for the filter to switch from light to dark state.

Shade Range: Defines the range of shades the filter can provide, typically from shade 5 to shade 13.

UV/IR Protection: Ensures constant protection from UV and IR radiation, regardless of the filter's state.

Additional Considerations

Shield Markings: Shields should have clear markings indicating compliance with relevant standards, the manufacturer's name, model number, and shade range.

Fit and Comfort: Standards often include requirements for adjustable headgear and ergonomic design to ensure a secure and comfortable fit.

Maintenance and Durability: Shields must be durable and easy to maintain, with replaceable parts like lenses and headgear to extend their lifespan.



Auto-Darkening Filter (ADF) Standards for Welding Shields

Auto-Darkening Filters (ADFs) are a critical component of modern welding Shields, providing dynamic protection by automatically adjusting their shade in response to welding light. Standards ensure that ADFs offer reliable protection, optical clarity, and durability. Below are key standards related to ADFs in welding Shields.

Key ADF Standards

● EN 379 (European Standard)

Scope: This standard specifies the requirements and testing methods for automatic welding filters (ADF).

Requirements:

Optical Classes: ADFs are rated for optical quality based on four criteria: optical clarity, diffusion of light, variations in luminous transmittance, and angle dependence of luminous transmittance. The best rating for each criterion is 1, with 1/1/1/1 being the highest overall rating.

Switching Speed: Specifies the time it takes for the ADF to switch from the light state to the dark state upon detecting the welding arc. Faster switching speeds provide better protection for the eyes.

Shade Range: Defines the range of darkness levels the ADF can achieve, typically from shade 5 to shade 13, suitable for various welding applications.

UV/IR Protection: Ensures continuous protection from ultraviolet (UV) and infrared (IR) radiation, regardless of the filter's state (light or dark).

Light State: Specifies the light state shade of the ADF when no arc is detected, usually between shade 3 and shade 4, for clear vision during non-welding activities.

Temperature Resistance: ADFs must perform consistently across a range of temperatures to ensure reliability in different working conditions.

● ANSI/ISEA Z87.1 (American National Standards Institute / International Safety Equipment Association)

Scope: This standard covers the performance and testing of eye and face protection devices, including ADF welding Shields.

Requirements:

Impact Resistance: ADFs must withstand impact from high-velocity particles to provide protection against physical hazards.

Switching Speed: Specifies the required speed for the ADF to switch from light to dark state to protect the eyes from the welding arc.

Shade Range and Consistency: Ensures the ADF provides the appropriate shade levels for various welding operations and that the shade is consistent across the viewing area.

UV/IR Protection: Continuous protection from UV and IR radiation, irrespective of the ADF's state.

Power Source: ADFs can be powered by batteries, solar cells, or a combination of both, with standards ensuring reliable operation.

Welding Shields With PAPR Integration: Enhancing Safety And Comfort

Welding Shields integrated with Powered Air-Purifying Respirators (PAPR) offer enhanced protection by combining respiratory and facial protection into one system. This integration is particularly beneficial in environments where both welding fumes and particulate matter are present. Here's a guide to understanding and choosing welding Shields with PAPR integration.

Benefits of PAPR-Integrated Welding Shields

● Comprehensive Protection:

Respiratory Protection: PAPRs provide filtered air, protecting the welder from harmful fumes, gases, and particulate matter.

Facial and Eye Protection: Integrated welding Shields protect against intense light, UV/IR radiation, and physical hazards like sparks and spatter.

● Improved Comfort:

Reduced Breathing Effort: PAPRs deliver a steady flow of clean air, reducing the effort needed to breathe and enhancing comfort during extended welding sessions.

Lower Heat Stress: The air supplied by the PAPR can help keep the welder cooler, reducing heat stress and discomfort.

● Enhanced Visibility:

Auto-Darkening Filters: Combined with PAPR systems, auto-darkening welding Shields offer clear visibility and automatic adjustment of the lens shade in response to welding light.

Wide Viewing Area: Many PAPR-integrated Shields have larger viewing windows, improving the welder's field of vision and precision.

● Increased Safety:

Constant Air Supply: Continuous airflow helps to dilute and remove contaminants, reducing the risk of respiratory issues.

Compliance with Safety Standards: Ensures both respiratory and facial protection meet relevant safety regulations and standards.

Key Features to Consider

● PAPR System Specifications:

Filter Type and Efficiency: Ensure the PAPR system has appropriate filters for the contaminants present in the welding environment (e.g., HEPA filters for particulates, activated carbon filters for gases).

Airflow Rate: Check that the airflow rate meets the recommended standards for comfort and protection (typically between 6 to 10 liters per minute).

Battery Life: Consider the battery life of the PAPR unit, which should be sufficient for the duration of your work shifts.

● Shield Integration:

Comfort and Fit: Ensure the Shield integrates well with the PAPR system, offering a comfortable and secure fit.

Ventilation: The Shield should be designed to work effectively with the PAPR's airflow system to prevent fogging and ensure clear vision.

Weight and Balance: The combined weight of the Shield and PAPR unit should be balanced to avoid strain on the neck and head.

● Optical Quality:

Auto-Darkening Features: Look for Shields with high optical clarity ratings (e.g., 1/1/1/1) for clear and distortion-free vision.

Shade Range: Ensure the auto-darkening filter offers the appropriate range of shades for various welding tasks (usually shades 9-13).

● Maintenance and Durability:

Filter Replacement: Choose a system with easy access for filter replacement and maintenance.

Shield Durability: The Shield should be made from durable materials to withstand welding conditions and provide long-lasting protection.

● Compliance with Standards:

Safety Standards: Ensure the Shield and PAPR system comply with relevant standards, such as EN 12941 for PAPR systems, EN 175 for welding Shields, and ANSI/ISEA Z87.1 for eye and face protection.





TRUE COLOUR TECHNOLOGY

Auto-darkening filters with the original WeldVison™ Technology are of the highest optical class 1 /1 /1 /1 DIN rating. Instant switch from bright to dark state, protecting eyes from all directions.

Users are able to enjoy true-to-life color recognition and exceptional high definition with our WeldVison™ Technology. No glare or interference, we provide the industry-leading eye-protection to help every user better concentrate on producing quality welds while improving their efficiency.

LIGHT STATE



When not welding, the ADF restores true colors for a clear and comfortable view. You can adjust the welding machine without needing to remove the helmet.

DARK STATE



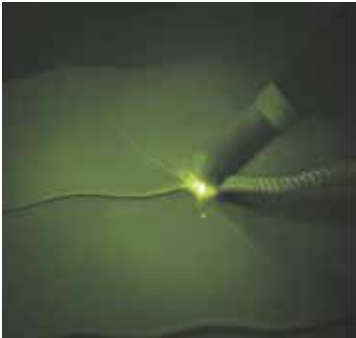
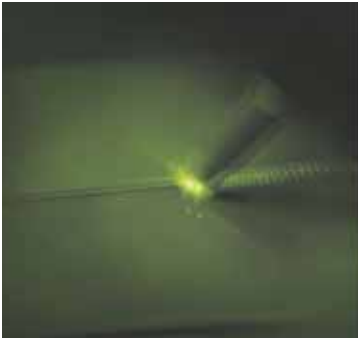
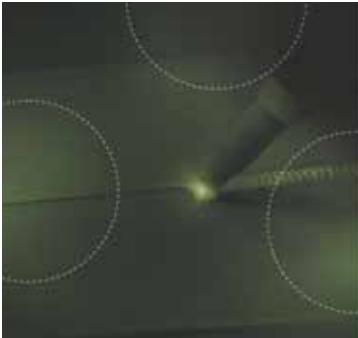
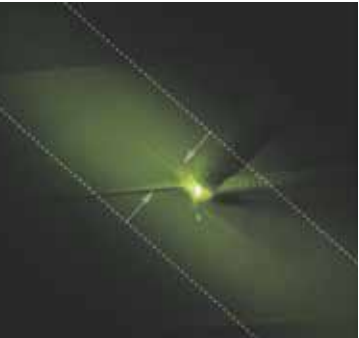
During welding, it enhances user visibility of the weld pool and seam, leading to more precise welding.

Highest Optical Class

1/1/1/1

What Does 1 / 1 / 1 / 1 Mean?

- The four parameters of welding filters: optical class, light diffusion, light homogeneity and angle dependence.
- Each parameter is ranked on a scale from Class 1 to 3, with Class 1 being the best, and Class 3 representing the lowest tier (which is the minimum level required to meet the CE standard).

Optical Class	Light Diffusion	Light Homogeneity	Angle Dependence
Highest Class 1/X/X/X Optical class indicates optical quality of the ocular.	Highest Class X/1/X/X Light diffusion class (adjustable filters only) 1, 2 or 3 indicates light diffusion class of the filter lens.	Highest Class X/X/1/X Variations in luminous transmittance class 1, 2 or 3 indicates shade variability in the dark state of the filter.	Highest Class X/X/X/1 Angle dependence of luminous transmittance class 1, 2 or 3 indicates the shade remains consistent when looking at any angle.
Worst Class 3/X/X/X Bad optical class quality will cause visual distortion.	Worst Class X/3/X/X Bad diffusion will cause double visual and headaches.	Worst Class X/X/3/X Bad Homogeneity, some lighter area will not be able to provide enough protection.	Worst Class X/X/X/3 Bad Angle Dependence will cause uneven darkness when eyes have some angles with the lens.
			



W200

CE

ANSI
Z87.1



- 

MMA
- 

MIG/MAG
- 

TIG
- 

FLUX-CORED
- 

PLASMA
- 

GRIND

Passive Welding Shield with Shade Glass Lens SGL100

Product Specification

Viewing Area	110 x 90 mm (4.33" x 3.54")
UV/IR Protection	Up To Shade 13 at all times.
Dark State	Shade 9/10/11 /12/13
Total Weight	470 g
Approved	CE, ANSI Z87.1, EN 175, EN 166, EN 169

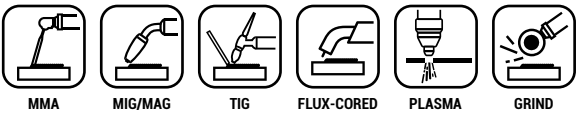
Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-FPWH-W200	OSFM	Black	810148535322



W250



Auto Darkening Welding Shield with ADF600S

Product Specification

Optical Class	1/1/1/2
Viewing area	96 × 40mm(3.78" x 1.57")
Size of cartridge	110 * 90 * 9 mm(4.33"*3.54"*0.35")
Lens shade	Variable Shade 9-13
Light State	DIN 3.5
Shade control	External
Sensors	2
On/Off	Automatic On / Off
Power Supply	Solar cell, no need to change battery
Switch time	1/16,000 sec. from Light to Dark
Sensitivity Control	Low~High, by infinitely dial knob
Delay time(dark to light)	0.1~1.0s by infinitely dial knob
Low TIG amps rated	210 amps(DC); ≥10 amps(AC)
Mode	Yes, external
Operating Temperature	-10°C~+ 55C(14°F~131 F)
Storing Temperature	-20°C~+ 70°C(-4°F~158°F)
Standard	CE, ANSI, CSA, AS/NZS approved

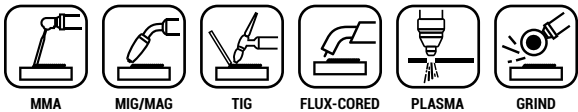
Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-ADWH-W250	OSFM	Black	810148536848



W300



Auto Darkening Welding Shield with ADF800SG

Product Specification

Optical Class	1 / 1 / 1 / 1
Viewing Area	97 x 62 mm (3.82" x 2.44")
Cartridge Size	133 x 114 x 9 mm (5.25" x 4.50" x 0.35")
Arc Sensor	4
Light State	DIN 3.5
Dark State	Variable Shade 5 ~ 8 / 9 ~ 13
Shade Control	Internal, Variable Shade
Power On/Off	Automatic On / Off
Sensitivity Control	Low ~ High, by infinitely dial knob
UV/IR Protection	Up to Shade DIN16 at all times
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery
Switching Time	1/25,000 s. from Light to Dark
Dark to Light	0.1 ~ 1.0 s by infinitely dial knob
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)
Grinding	Yes
Battery Capacity Test	Yes
Operating Temp.	-10 °C ~ +55 °C (14 °F ~ 131 °F)
Storing Temp.	-20 °C ~ +70 °C (-4 °F ~ 158 °F)
Helmet Material	High Impact Resistance Nylon
Total Weight	490 g
Approved	CE, ANSI, CSA, AS/NZS, EAC

Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-ADWH-W300	OSFM	Black	810148535339



W400

CE

ANSI
Z87.1



MMA

MIG/MAG

TIG

FLUX-CORED

PLASMA

GRIND

Auto Darkening Welding Shield with side lens with ADF900G

Product Specification

Optical Class	1 / 1 / 1
Viewing Area	107 x 75 mm (4.21" x 2.95")
Cartridge Size	156 x 123 x 33 mm (6.14" x 4.84" x 1.30")
Arc Sensor	4
Light State	DIN 4
Grind State	DIN 4
Cutting Shade	Shade No. from 5 to 8
Welding Shade	Shade No. from 9 to 13
Shade Control	Internal, Digital Display Control
Power On / Off	Automatic On / Off
Sensitivity Control	Low ~ High, Digital Display Control
UV / IR Protection	Up to Shade DINI 3 at all times
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery
Switching Time	1 / 25,000 s. from Light to Dark at 55 °c (131 °F)
Grinding	Yes
Delay (Dark to Light)	0.1 ~ 1.0 s, Digital Display Control
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)
Operating Temp.	-5 °C ~ +55 °C (23 °F ~ 131 °F)
Storing Temp.	-20 °C ~ +70 °C (-4 °F ~ 158 °F)
Helmet Material	High Impact Resistance Nylon
Total Weight	778 g
Approved	CE, EN175, EN 379, EN166, ANSI Z87.1, CS A Z94.3, AS/NZS 1338.1

Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-ADWH-SL-W400	OSFM	Black	810148535346



W400 Air



Side Lens



MMA



MIG/MAG



TIG



FLUX-CORED



PLASMA



GRIND

Auto Darkening Welding Shield with side lens with ADF900G - Air Version

Product Specification

Optical Class	1 / 1 / 1 / 1
Viewing Area	107 x 75 mm (4.21" x 2.95")
Cartridge Size	156 x 123 x 33 mm (6.14" x 4.84" x 1.30")
Arc Sensor	4
Light State	DIN 4
Grind State	DIN 4
Cutting Shade	Shade No. from 5 to 8
Welding Shade	Shade No. from 9 to 13
Shade Control	Internal, Digital Display Control
Power On / Off	Automatic On / Off
Sensitivity Control	Low ~ High, Digital Display Control
UV / IR Protection	Up to Shade DIN13 at all times
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery
Switching Time	1/25,000 s. from Light to Dark at 55 °C (131 °F)
Grinding	Yes
Delay (Dark to Light)	0.1 ~ 1.0 s, Digital Display Control
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)
Operating Temp.	-5 °C ~ +55 °C (23 °F ~ 131 °F)
Storing Temp.	-20 °C ~ +70 °C (- 4 °F ~ 158 °F)
Helmet Material	High Impact Resistance Nylon
Total Weight	778 g
Approved	CE, EN175, EN 379, EN166, ANSI Z87. 1, CS A Z94.3, AS/NZS 1338.1

Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-ADWH-ASL-W400	OSFM	Black	810148535353



W500 Air

CE

ANSI
Z87.1



- MMA
- MIG/MAG
- TIG
- FLUX-CORED
- PLASMA
- GRIND

Flip-up Auto Darkening Welding Shield with side lens with ADF900S

Product Specification

Optical Class	1 / 1 / 1
Viewing Area	107 x 75 mm (4.21" x 2.95")
Cartridge Size	156 x 123 x 33 mm (6.14" x 4.84" x 1.30")
Arc Sensor	4
Light State	DIN 4
Grind State	DIN 4
Cutting Shade	Shade No. from 5 to 8
Welding Shade	Shade No. from 9 to 13
Shade Control	Internal, Digital Display Control
Power On / Off	Automatic On / Off
Sensitivity Control	Low ~ High, Digital Display Control
UV / IR Protection	Up to Shade DIN 16 at all times
Power Supply	Solar cell. Battery replaceable, 2 x CR2450 lithium battery
Switching Time	1 / 25,000 s. from Light to Dark
Grinding	Yes
Delay (Dark to Light)	0.1 ~ 1.0 s, Digital Display Control
Low Amperage TIG Rated	≥ 2 amps (DC); ≥ 2 amps (AC)
Operating Temp.	-10 °C ~ +55 °C (23 °F ~ 131 °F)
Storing Temp.	-20 °C ~ +70 °C (-4 °F ~ 158 °F)
Helmet Material	High Impact Resistance Nylon
Approved	CE, UKCA, UKNI, ANSI Z87.1, Z94.3, AS/NZS 1338.1, EAC

Packaging Information

1 Piece / Box

Product SKU	Size	Colour	Inner pack UPC
BLSH-FADWH-ASL-W500	OSFM	Black	810148535360

HAND PROTECTION

Ultimett

Hand Protection

Essential for Workplace Safety

Hand protection is crucial for ensuring safety in the workplace. Hands are among the most vulnerable parts of the body, and injuries can range from minor cuts and abrasions to severe damage that can impact a worker's ability to perform their job. Here's why hand protection is essential and how to ensure you're using the right gear.

Why Hand Protection Matter?

Prevention of Injuries: Proper hand protection can prevent a wide range of injuries, including cuts, burns, punctures, and chemical exposures.

Compliance with Safety Standards: Many industries have regulations that mandate the use of hand protection. Compliance with these standards helps avoid legal penalties and ensures worker safety.

Productivity: Protecting hands from injury reduces downtime and maintains productivity, as workers are less likely to be sidelined by injuries.

Long-Term Health: Chronic conditions like repetitive strain injuries can be mitigated with appropriate hand protection, preserving the long-term health and efficiency of the workforce.

Types of Hand Protection gloves

Cut-Resistant Gloves: Made from materials like Kevlar, these gloves protect against sharp objects.

Chemical-Resistant Gloves: Typically made from rubber, neoprene, or nitrile, these gloves protect against hazardous substances.

Heat-Resistant Gloves: Designed for high-temperature environments, these gloves protect against burns.

Electrical Insulating Gloves: These gloves are used to protect against electrical shocks and are essential for electricians and workers in similar fields.

Disposable Gloves: Often used in healthcare or food industries, these gloves provide a barrier against contamination.

Key Features to Consider

Material: The choice of material depends on the specific hazard, whether it be chemicals, sharp objects, heat, or electricity.

Fit and Comfort: Gloves should fit well to ensure dexterity and comfort, reducing the risk of accidents caused by ill-fitting gear.

Grip: Gloves with textured surfaces can enhance grip, reducing the chance of dropping tools or materials.

Durability: Consider the durability of gloves in relation to the tasks they will be used for. Some tasks may require more robust protection.

Best Practices for Using Hand Protection

Proper Selection: Choose gloves that are appropriate for the specific hazards in your workplace.

Regular Inspection: Inspect gloves regularly for signs of wear and tear. Replace them if they are damaged or no longer provide adequate protection.

Training: Ensure workers are trained in the correct use of hand protection, including how to put on, take off, and dispose of gloves properly.

Maintenance: Clean reusable gloves according to the manufacturer's instructions to maintain their protective properties.

Storage: Store gloves in a cool, dry place away from direct sunlight and chemicals to prolong their lifespan.

EN 388: Key Components & Ratings

The EN 388 standard tests gloves for four main mechanical risks, each represented by a specific rating. These ratings are shown as a sequence of numbers and letters on the glove, which indicates its performance in each category.

● Abrasion Resistance (0-4):

Test: A glove is subjected to repeated abrasion until a hole appears.

Rating: 0 (lowest) to 4 (highest). A higher number indicates better resistance to abrasion

● Cut Resistance (Coup Test) (0-5):

Test: A rotating circular blade is used to cut through the glove material.

Rating: 0 (lowest) to 5 (highest). A higher number indicates greater resistance to cuts.

● Tear Resistance (0-4):

Test: The force required to tear the glove material is measured.

Rating: 0 (lowest) to 4 (highest). A higher number indicates greater resistance to tearing.

● Puncture Resistance (0-4):

Test: The force required to puncture the glove with a standard-sized point is measured.

Rating: 0 (lowest) to 4 (highest). A higher number indicates better resistance to punctures.

Additional Test: ISO 13997 Cut Resistance (A-F)

In addition to the Coup Test, the EN 388 standard includes an additional test for cut resistance using the ISO 13997 method. This test is particularly relevant for high-performance gloves.

Rating: A (lowest) to F (highest), where F represents the highest level of cut resistance.

Understanding the EN 388 Marking

The EN 388 marking on a glove might look something like this: EN 388: 4X43F. Each digit or letter corresponds to a specific test:

EN388:2016
+A1:2018



4X43F

4: Abrasion resistance level.

X: Cut resistance using the Coup Test (X indicates that the Coup Test was not performed).

4: Tear resistance level.

3: Puncture resistance level.

F: Cut resistance using the ISO 13997 method.

EN 374: Key Components & Ratings

EN 374 consists of several parts, each covering different aspects of chemical and microorganism protection.

• EN 374-1: Terminology & Performance Requirements

- Type A Gloves:** Provide the highest level of protection against chemicals, with resistance to at least six chemicals from the list of standard test chemicals (performance level 2 or higher).
- Type B Gloves:** Provide resistance to at least three chemicals (performance level 2 or higher).
- Type C Gloves:** Provide resistance to at least one chemical (performance level 1 or higher).

Each glove type is tested for permeation (how long it takes a chemical to break through the glove material) and degradation (the physical deterioration of the glove material when exposed to a chemical).

• EN 374-2: Resistance to Penetration

- Test:** This part of the standard tests gloves for resistance to penetration by microorganisms, including bacteria, viruses, and fungi. It involves a test for leaks using air and water pressure.
- Result:** Gloves that pass this test are considered impermeable to microorganisms.

• EN 374-4: Resistance to Degradation

- Test:** This test measures the change in a glove's material when exposed to a specific chemical. Degradation is evaluated by assessing changes in puncture resistance after chemical exposure.
- Result:** A percentage value indicates the degradation level; the lower the percentage, the better the glove resists degradation.

• EN 374-5: Protection Against Microorganisms

Virus Protection: Gloves that offer protection against viruses have an additional marking with the word "VIRUS" under the EN 374-5 logo. This indicates that the glove has passed an additional viral penetration test.

EN 374 Markings on Gloves

Gloves that meet the EN 374 standards will have specific markings to indicate their protection level:

Type A (high resistance) 6 chemicals for at least 30 minutes (level 2)	
Type B (medium resistance) 3 chemicals for at least 30 minutes (level 2)	
Type C (lowest resistance) 1 chemical for at least 10 minutes (level 1)	

Micro-Organisms (EN ISO 374-5:2016)

Protection Against Bacteria and Fungi: Gloves must pass the penetration resistance test in accordance with standard EN374- 2:2014.	
Protection Against Virus, Bacteria and Fungi: Gloves must pass the penetration resistance test in accordance with standard EN374- 2:2014 and ISO16604:2004.	



List of Standard Test Chemicals (Part of EN 374) each glove is tested against specific chemicals, identified by letters in the EN 374 markings:

Code Letter	Chemical	Cas #	Class
A	Methanol	67-56-1	Primary Alcohol
B	Acetone	67-54-1	Ketone
C	Acrylonitrile	75-05-8	Nitrile Compound
D	Dichloromethane	75-09-2	Chlorinated Paraffin
E	Carbon Disulphide	75-15-0	Sulphur containing Organic Compound
F	Toluene	108-88-3	Aromatic Hydrocarbon
G	Diethylamine	108-89-7	Amine
H	Tetrahydrofuran	109-99-9	Heterocyclic and Ether Compound
I	Ethyl Acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated Hydrocarbon
K	Sodium Hydroxide 40%	1310-73-2	Inorganic Base
L	Sulfuric Acid 96%	7664-93-9	Inorganic Mineral Acid
M	Nitric Acid 65%	7697-37-2	Inorganic Mineral Acid
N	Acetic Acid 99%	64-19-7	Organic acid
O	Ammonium Hydroxide 25%	1336-21-6	Organic base
P	Hydrogen Peroxide 30%	7722-84-1	Peroxide
S	Hydrofluoric Acid 40%	7664-39-3	Inorganic Mineral Acid
T	Formaldehyde 37%	50-00-0	Aldehyde

EN 407: Key Components & Ratings

EN 407 tests gloves for various types of thermal hazards, each represented by a specific rating. The standard covers six different performance categories, and each category is rated on a scale from 0 (lowest protection) to 4 (highest protection). The ratings are typically displayed on the glove as a sequence of six numbers, each corresponding to a different test.

● Resistance to Flammability (A) (0-4)

Test: The glove material is exposed to a flame for a specific period, and the time it takes for the material to stop burning or glowing after the flame is removed is measured.

Rating: A higher number indicates better resistance to flammability, with level 4 representing the highest resistance.

● Contact Heat Resistance (B) (0-4)

Test: The glove is tested for its ability to withstand direct contact with a hot object at temperatures ranging from 100°C to 500°C without allowing the inside temperature of the glove to increase by more than 10°C within a 15-second exposure.

Rating: Level 1 (100°C) to level 4 (500°C). A higher number indicates better protection against higher temperatures.

● Convective Heat Resistance (C) (0-4)

Test: This measures the glove's ability to delay heat transfer from a flame to the inside of the glove.

Rating: A higher rating indicates better protection, with level 4 representing the highest resistance.

● Radiant Heat Resistance (D) (0-4)

Test: The glove material is exposed to a radiant heat source, and the time it takes for the temperature inside the glove to rise by a specific amount is measured.

Rating: A higher rating indicates better protection against radiant heat, with level 4 being the highest.

● Small Splashes of Molten Metal (E) (0-4)

Test: The glove is tested for its ability to withstand small splashes of molten metal without significant damage.

Rating: The higher the number, the better the glove can protect against small splashes of molten metal.

● Large Splashes of Molten Metal (F) (0-4)

Test: This test measures the amount of molten metal required to cause significant damage, such as pinholes or material adherence.

Rating: A higher rating indicates better protection against larger splashes of molten metal.

EN 407 Marking on Gloves

A glove that meets the EN 407 standard will have a symbol indicating thermal protection, often represented by a flame icon. Next to the icon, you'll see a series of six digits corresponding to the performance ratings in the categories listed above. For example, a marking of EN 407: 413X4X would indicate the following:



Gloves tested to EN407:2020, when not claiming for Limited Flame Spread use this icon.



Gloves tested to EN407:2004, when claiming Limited Flame Spread will use this icon.

4: Resistance to flammability (highest rating).

1: Contact heat resistance (minimal protection).

3: Convective heat resistance.

X: No rating or test not performed for radiant heat resistance.

4: Resistance to small splashes of molten metal.

X: No rating or test not performed for large splashes of molten metal.

EN 60903: Key Components & Classification

EN 60903 covers the design, testing, and use of insulating gloves that provide protection against electrical voltages. The standard includes several key aspects:

● Glove Classes

Gloves are classified into different classes based on the level of electrical protection they offer. Each class corresponds to the maximum voltage that the gloves can safely withstand during use. The classes are:

Class 00: For use up to 500 volts AC / 750 volts DC

Class 0: For use up to 1,000 volts AC / 1,500 volts DC

Class 1: For use up to 7,500 volts AC / 11,250 volts DC

Class 2: For use up to 17,000 volts AC / 25,500 volts DC

Class 3: For use up to 26,500 volts AC / 39,750 volts DC

Class 4: For use up to 36,000 volts AC / 54,000 volts DC

Each class is marked on the glove to indicate its level of protection.

● Physical and Mechanical Properties

The standard also specifies the physical and mechanical properties of the gloves, including tensile strength, elongation, puncture resistance, and aging resistance. These properties ensure that the gloves can withstand the physical demands of the work environment while maintaining their insulating properties.

● Testing Procedures

Dielectric Testing: Gloves are tested for their ability to insulate against electrical currents. This involves applying a specific voltage to the gloves and checking for leakage or failure.

Mechanical Testing: Gloves are also tested for resistance to punctures, cuts, tears, and other mechanical damage that could compromise their insulating properties.

Aging Tests: Gloves are subjected to conditions that simulate long-term use to ensure they maintain their insulating properties over time.

● Markings on Gloves

EN 60903 gloves are marked with specific information to indicate their protective properties, including:

EN 60903



- The class of the glove (e.g., Class 0, Class 2).
- The maximum voltage the glove is rated for.
- The glove size and manufacturer information.
- The date of manufacture or testing.
- Additional markings for resistance to specific hazards, such as ozone, low temperatures, or acid resistance.

Additional Features

● Composite Gloves:

Some gloves are classified as composite gloves, which provide mechanical protection in addition to electrical insulation, eliminating the need for an over-glove.

● Category C, R, Z, H:

C (Cryogenic): Resistance to low temperatures.

R: Resistance to acid, oil, ozone, and very low temperatures.

Z: Resistance to ozone.

H: Resistance to oil.



General Purpose Gloves

UltiFlex® Series

MG1211

PU Coated Gloves



Product Specification

Liner	Polyester
Liner Colour	Black
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	3
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
240 Pairs / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-GPGU-BK8-1	Medium	Black	810090087993	10810090087990
BLSH-GPGU-BK9-1	Large	Black	810090088006	10810090088003
BLSH-GPGU-GY8-1	Medium	Grey	810090088013	10810090088010
BLSH-GPGU-GY9-1	Large	Grey	810090088020	10810090088027

MG2415

PU Coated Gloves



Product Specification

Liner	HPPE
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	5
Tear	4
Puncture	3
Cut (TDM)	

Packaging Information

12 Pairs / Poly Bag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRG5U-GY8-1	Medium	810090088051	10810090088058
BLSH-CRG5U-GY9-1	Large	810090088068	10810090088065

MG1121

Latex Coated Gloves



Product Specification

Liner	Polycotton
Liner Colour	Red
Coating	Latex
Coating Colour	Black
Coating Finish	Crinkle
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	3
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-GPG1-LX8-R	Medium	810090088334	10810090088331
BLSH-GPG1-LX9-R	Large	810090088341	10810090088348

MG1231

Nitrile Coated Gloves



Product Specification

Liner	Polyester
Liner Colour	Red
Coating	Nitrile
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	3
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
240 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-GPGN-BKR8-1	Medium	810090087979	10810090087976
BLSH-GPGN-BKR9-1	Large	810090087986	10810090087983

General Purpose Gloves

UltiFlex® Series

MG1331

Nitrile Coated Gloves



Product Specification

Liner	Polyester
Liner Colour	Blue
Coating	Nitrile
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	2
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-GPRN-BKBL8-1	Medium	810090088099	10810090088096
BLSH-GPRN-BKBL9-1	Large	810090088105	10810090088102

Arm Sleeve

ArmoCut™ Series

AS42D0

HPPE Sleeve With Thumbhole



Product Specification

Liner	HPPE
Liner Colour	Grey Melange
Thumbhole	Yes
Length	18"

Performance Score

EN388

Abrasion	3
Cut (Coupe)	5
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Poly Bag
192 Pairs / Carton

Product SKU	Length	Inner pack UPC	Carton GTIN
BLSH-AST18H-M-12	18"	810188143853	00810188143860



UltiTuff™

Heavy Duty Gloves

CE EN388:2016
4X43CP

IG3431

TPR Patch

Nitrile Double Coated
(Sandy Finish)

HPPE Liner

IMPACT RESISTANT GLOVES

Product Specification

Liner	HPPE
Liner Colour	Melange
Coating	Nitrile
Coating Colour	Red
Coating Finish	Sandy
TPR Patch	Yes
Thumb Crotch	Yes
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	L - XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	3
Cut (TDM)	C
Impact	P

Packaging Information

12 Pairs / Poly Bag
120 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-IGN-WR9	Large	810148537289	00810148537296



Also Available with
Velcro & Vibration patch

Heavy Duty Gloves

UltiTuff™ Series

MG2211

PU Coated Gloves



Product Specification

Liner	Polyester
Liner Colour	Black / White
Coating	PU
Coating Colour	Black / White
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	3
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
240 Pairs / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-GPPU-BK7	Small	Black	810148537166	00810148537173
BLSH-GPPU-BK8	Medium	Black	810148537180	00810148537197
BLSH-GPPU-BK9	Large	Black	810148537203	00810148537210
BLSH-GPPU-W7	Small	White	810148537227	00810148537234
BLSH-GPPU-W8	Medium	White	810148537241	00810148537258
BLSH-GPPU-W9	Large	White	810148537265	00810148537272

MG2231

Nitrile Coated Gloves



Product Specification

Liner	Polyester
Liner Colour	White
Coating	Nitrile
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
240 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-GPGN-WHGY8	Medium	810148535919	00810148535926
BLSH-GPGN-WHGY9	Large	810148535933	00810148535940

CS3111

Nitrile Coated Cut & Swen Gloves



Product Specification

Liner	Cotton Jersey
Liner Colour	White
Coating	Nitrile
Coating Colour	Blue
Coating Finish	Flat
Coating Coverage	Fully Coated
Cuff Style	Safety cuff
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
120 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CSGN-SCBL8	Medium	810148536107	00810148536114
BLSH-CSGN-SCBL9	Large	810148536121	00810148536138

CS3112

Nitrile Coated Cut & Swen Gloves



Product Specification

Liner	Cotton Jersey
Liner Colour	White
Coating	Nitrile
Coating Colour	Blue
Coating Finish	Flat
Coating Coverage	Fully Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	1
Tear	2
Puncture	1
Cut (TDM)	X

Packaging Information

12 Pairs / Poly Bag
120 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CSGN-SCBL8	Medium	810148536107	00810148536114
BLSH-CSGN-SCBL9	Large	810148536121	00810148536138

MG371B PU Coated Gloves



Product Specification

Liner	HPPE/Glass Fiber
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	B

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGB-PU8-GY	Medium	810090088198	10810090088195
BLSH-CRGB-PU9-GY	Large	810090088204	10810090088201

MG381C PU Coated Gloves



Product Specification

Liner	Nylon/Glass fiber/Spandex
Liner Colour	Orange
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	c

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGC-PU8-O	Medium	810090088211	10810090088218
BLSH-CRGC-PU9-O	Large	810090088228	10810090088225

MG371C PU Coated Gloves



Product Specification

Liner	HPPE/Glass Fiber
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	3
Cut (TDM)	c

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGC-PU8-GY	Medium	810090088235	10810090088232
BLSH-CRGC-PU9-GY	Large	810090088242	10810090088249

MG373C Nitrile Coated Gloves



Product Specification

Liner	HPPE/Glass Fiber
Liner Colour	Grey Melange
Coating	Nitrile
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	4
Cut (TDM)	c

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGC-N8-GY	Medium	810090088259	10810090088256
BLSH-CRGC-N9-GY	Large	810090088266	10810090088263

MG393D PU Coated Gloves



Product Specification

Liner	HPPE/Steel/Polyester/Spandex
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGD-PU8-BK	Medium	810090088273	10810090088270
BLSH-CRGD-PU9-BK	Large	810090088280	10810090088287

MG342D Latex Coated Gloves



Product Specification

Liner	HPPE
Liner Colour	Grey Melange
Coating	Latex
Coating Colour	Black
Coating Finish	Crinkle
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	4
Cut (TDM)	D

Packaging Information

12 Pairs / Poly Bag
120 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGC-LX8-GY	Medium	810188144492	00810188144508
BLSH-CRGC-LX9-GY	Large	810188144515	00810188144522

MG393E PU Coated Gloves



Product Specification

Liner	HPPE/Steel/Basalt/Polyester/Spandex
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	3
Cut (TDM)	E

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGE-PU8-GY	Medium	810090088297	10810090088294
BLSH-CRGE-PU9-GY	Large	810090088303	10810090088300

MG393F PU Coated Gloves



Product Specification

Liner	HPPE/Steel/Basalt/Polyester/Spandex
Liner Colour	Black
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	3
Cut (TDM)	F

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRGF-PU8-BK	Medium	810090088310	10810090088317
BLSH-CRGF-PU9-BK	Large	810090088327	10810090088324

UltiMett®

High Performance Engineered Fiber

Premium Cut Resistant Gloves

NO Glass
Steel
Fuzzing
Stabbing

9.16X

Stronger than HPPE

2nd Skin

A lint-free surface provides a silky and cool touch sensation

25%

Thin and soft, it offers the same level of cut protection as other fibers

Patented
Technology



MG427B Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Blue
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	B

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG466B PU Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	B

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG411C Foam Nitrile Coated Gloves



Product Specification

Liner	Nylon/Spandex
Liner Colour	Blue
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	3
Cut (Coupe)	X
Tear	4
Puncture	1
Cut (TDM)	C

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG482C Micro Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	Micro Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	3
Cut (Coupe)	X
Tear	4
Puncture	1
Cut (TDM)	c

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-CRUC-FN8-BL	Medium	810188140111	00810188140128
BLSH-CRUC-FN9-BL	Large	810188140135	00810188140142

MG466C PU Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey Melange
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	c

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG422D Micro Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	Micro Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG486D PU Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	3
Cut (Coupe)	X
Tear	4
Puncture	1
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG482D Micro Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	Micro Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

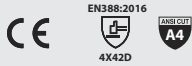
Performance Score

EN388	
Abrasion	3
Cut (Coupe)	X
Tear	4
Puncture	1
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG473D Micro Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	Micro Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Thumb Crotch	Yes
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG423D Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Orange
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Thumb Crotch	Yes
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG425D Double Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Blue
Coating	Nitrile
Coating Colour	Black
Coating Finish	Sandy
Coating Coverage	Fully Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG466D PU Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	PU
Coating Colour	Grey
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	D

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG472E Micro Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Blue
Coating	Micro Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	E

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG476E PU Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Blue
Coating	PU
Coating Colour	Black
Coating Finish	Flat
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	E

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG464F Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE
Liner Colour	Grey
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Sandy
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	F

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG432F Foam Nitrile Coated Gloves



Product Specification

Liner	Filament HPPE/Tungsten
Liner Colour	Green
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Smooth
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	F

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG444F

Foam Nitrile Coated Gloves

EN388:2016

CE

4X42F

A7



Product Specification

Liner	Filament HPPE/Steel
Liner Colour	Mint Blue
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Sandy
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	F

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton

MG454F

Foam Nitrile Coated Gloves

EN388:2016

CE

4X42F

A9



Product Specification

Liner	Filament HPPE/Steel
Liner Colour	Orange
Coating	Foam Nitrile
Coating Colour	Black
Coating Finish	Sandy
Coating Coverage	Palm Coated
Cuff Style	Knit Wrist
Size	S-XL

Performance Score

EN388	
Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	2
Cut (TDM)	F

Packaging Information

12 Pairs / Polybag
144 Pairs / Carton



CG3222A

Nitrile Flocklined Gloves

EN ISO 374-1:2016
+A1:2018/ Type A

EN ISO 374-5:2016

EN388:2016
+A1:2018

4102X

CE 2777



Performance Score

EN ISO 374-1

Code	Chemical
A	Methanol
J	Heptane
K	Sodium Hydroxide 40%
L	Sulfuric Acid 96%
M	Nitric Acid 65%
N	Acetic Acid 99%
O	Ammonium Hydroxide 25%
P	Hydrogen Peroxide 30%
T	Formaldehyde 37%

EN388

Abrasion	4
Cut (Coupe)	1
Tear	0
Puncture	2
Cut (TDM)	X

Product Specification

Material	Nitrile
Colour	Green
Interior Finish	Flocklined
Grip Pattern	Raised Diamond
Cuff Style	Straight
Size	S-XL

Packaging Information

1 Pair / Polybag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-ES-FLNG-S7-GR	Small	810148534776	00810148534783
BLSH-ES-FLNG-M8-GR	Medium	810090088112	10810090088119
BLSH-ES-FLNG-L9-GR	Large	810090088129	10810090088126
BLSH-ES-FLNG-XL10-GR	Extra Large	810148534820	00810148534813

CG3241A

Double Dipped Nitrile Gloves with Nylon Liner

EN ISO 374-1:2016
+A1:2018/ Type A

EN ISO 374-5:2016

EN388:2016
+A1:2018

4142A

EN407:2020

XX2XXX

CE 2777



Performance Score

EN ISO 374-1

Code	Chemical
J	Heptane
K	Sodium Hydroxide 40%
L	Sulfuric Acid 96%
M	Nitric Acid 65%
N	Acetic Acid 99%
O	Ammonium Hydroxide 25%

EN388

Abrasion	4
Cut (Coupe)	1
Tear	4
Puncture	2
Cut (TDM)	A

Product Specification

Material	Nitrile
Colour	Red & Black
Interior Finish	Nylon Liner
Exterior Finish	Nitrile Foam Finish
Cuff Style	Straight
Size	S-XL

Packaging Information

1 Pair / Polybag
72 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-DD-S7-BKR	Small	810148534790	00810148534806
BLSH-MS-DD-M8-BKR	Medium	810090088136	10810090088133
BLSH-MS-DD-L9-BKR	Large	810090088143	10810090088140
BLSH-MS-DD-XL10-BKR	Extra Large	810148534844	00810148534837

CG3451A

Multiple Dipped NBR Coated Gloves with HPPE Liner

EN ISO 374-1:2016
+A1:2018/ Type A

EN ISO 374-5:2016

EN388:2016
+A1:2018

4X41D

EN407:2020

X1XXXX

CE 2777



Performance Score

EN ISO 374-1

Code	Chemical
J	Heptane
K	Sodium Hydroxide 40%
L	Sulfuric Acid 96%
M	Nitric Acid 65%
N	Acetic Acid 99%
O	Ammonium Hydroxide 25%

EN388

Abrasion	4
Cut (Coupe)	X
Tear	4
Puncture	1
Cut (TDM)	D

EN407

Limited flame spread	X
Contact heat	1
Convective heat	X
Radiant heat	X
Small splashes of molten metal	X
Large splashes of molten metal	X

Product Specification

Material	NBR
Colour	Blue & Black
Interior Finish	HPPE Liner
Exterior Finish	Nitrile Foam Finish
Cuff Style	Straight
Size	S-XL

Packaging Information

1 Pair / Polybag
72 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-MD-S7-BLBK	Small	810148534868	00810148534851
BLSH-MS-MD-M8-BLBK	Medium	810090088150	10810090088157
BLSH-MS-MD-L9-BLBK	Large	810090088167	10810090088164
BLSH-MS-MD-XL10-BLBK	Extra Large	810148534882	00810148534875

CG3622A

Blended Neoprene Flocklined Gloves

EN ISO 374-1:2016
+A1:2018/ Type A

EN ISO 374-5:2016

EN388:2016
+A1:2018

2120X

CE 2777



Performance Score

EN ISO 374-1

Code	Chemical
A	Methanol
K	Sodium Hydroxide 40%
L	Sulfuric Acid 96%
M	Nitric Acid 65%
N	Acetic Acid 99%
O	Ammonium Hydroxide 25%

EN388

Abrasion	2
Cut (Coupe)	1
Tear	2
Puncture	0
Cut (TDM)	X

Product Specification

Material	Blended Neoprene
Colour	Blue & Yellow
Interior Finish	Flocklined
Grip Pattern	Raised Diamond
Cuff Style	Straight
Size	S-XL

Packaging Information

3 Pairs / Poly Bag
144 Pairs / Carton

Product SKU	Size	Inner pack UPC	Carton GTIN
BLSH-MS-BN-S7-YBL	Small	810148534905	00810148534899
BLSH-MS-BN-M8-YBL	Medium	810090088174	10810090088171
BLSH-MS-BN-L9-YBL	Large	810090088181	10810090088188
BLSH-MS-BN-XL10-YBL	Extra Large	810148534929	00810148534912

UltiLab[®]

Nitrile Disposable Powder Free Gloves
Fully Textured Grip for Better Performance

3/4/5/6/8MIL



Product Specification

Material	Nitrile
Colour	Blue
Powder Free	Yes
Grip Pattern	Finger Textured
Cuff Style	Rolled
Size	S-XL

Performance Score

EN ISO 374-1

Code	Chemical
K	Sodium Hydroxide 40%
P	Hydrogen Peroxide 30%
T	Formaldehyde 37%

Packaging Information

100 Pieces / Dispenser Box
1000 Pieces / Carton

Model No.	Product Description	Product SKU	Size	Inner pack UPC	Carton GTIN
DG2212	4 Mil Powder Free Nitrile Disposable Gloves	BLSH-S-DNG-1BL	Small	810188144317	00810188144324
DG2212	4 Mil Powder Free Nitrile Disposable Gloves	BLSH-M-DNG-1BL	Medium	810148533793	00810148533809
DG2212	4 Mil Powder Free Nitrile Disposable Gloves	BLSH-L-DNG-1BL	Large	810148533816	00810148533823
DG2212	4 Mil Powder Free Nitrile Disposable Gloves	BLSH-XL-DNG-1BL	Extra Large	810148533830	00810148533847
DG3214	5 Mil Powder Free Nitrile Disposable Gloves	BLSH-S-DNG-5BL	Small	810188144331	00810188144348
DG3214	5 Mil Powder Free Nitrile Disposable Gloves	BLSH-M-DNG-5BL	Medium	810148539818	00810148539825
DG3214	5 Mil Powder Free Nitrile Disposable Gloves	BLSH-L-DNG-5BL	Large	810148539832	00810148539849
DG3214	5 Mil Powder Free Nitrile Disposable Gloves	BLSH-XL-DNG-5BL	Extra Large	810148539856	00810148539863

EN ISO 374-1:2016
/ Type B



EN ISO 374-5:2016



EN ISO 21420:2020



UltiFlash[®]

Electrical Insulating Gloves



Category - RC

R = Acid, Oil, Ozone
C = Very Low Temperature

Product Specification

Model	Class	Test Voltage	Working Voltage
EG3100	00	2500 V	500 V
EG3101	0	5000 V	1000 V
EG3102	1	10000 V	7500 V
EG3103	2	20000 V	17000 V
EG3104	3	30000 V	26500 V

Packaging Information

1 Pairs / Polybag
10 Pairs / Carton

Model	Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
EG3100	BLSH-HDS-EHG8-00	8	Red	810090086910	00810090086927
EG3100	BLSH-HDS-EHG9-00	9	Red	810090087016	00810090087023
EG3100	BLSH-HDS-EHG10-00	10	Red	810090087030	00810090087047
EG3101	BLSH-HDS-EHG8-0	8	Red	810090086934	00810090086941
EG3101	BLSH-HDS-EHG9-0	9	Red	810090087054	00810090087061
EG3101	BLSH-HDS-EHG10-0	10	Red	810090087078	00810090087085
EG3102	BLSH-HDS-EHG9-1	9	Red	810090087115	00810090087122
EG3102	BLSH-HDS-EHG10-1	10	Red	810090087139	00810090087146
EG3103	BLSH-HDS-EHG9-2	9	Red	810090087153	00810090087160
EG3103	BLSH-HDS-EHG10-2	10	Red	810090087177	00810090087184
EG3104	BLSH-HDS-EHG9-3	9	Red	810090087191	00810090087207
EG3104	BLSH-HDS-EHG10-3	10	Red	810090087214	00810090087221

PROTECTIVE CLOTHING



Disposable Chemical Protective Clothing

A Critical Aspect of Workplace Safety

ChemiGuard™ range of disposable chemical protective clothing is designed for single-use protection against hazardous chemicals and substances. It plays a crucial role in maintaining workplace safety by offering a practical and effective barrier to prevent chemical exposure. Here's an overview of why disposable chemical protective clothing is vital for safety and how it contributes to a safer working environment.

Why Disposable Chemical Protective Clothing Matters?

● Effective Barrier Against Chemicals

Single-Use Protection: Disposable clothing provides a protective barrier that prevents direct contact with hazardous chemicals, reducing the risk of chemical burns, irritation, or other injuries.

Material Suitability: Made from specialized materials like Non-woven, multi-layer non-woven, SMS, MSSM, polyethylene, or laminated fabrics that are resistant to a wide range of chemicals, ensuring reliable protection.

● Hygiene and Contamination Control

Prevents Cross-Contamination: Disposable clothing helps prevent the spread of contaminants from one area to another, maintaining a clean and controlled work environment.

Reduced Cleaning Needs: Eliminates the need for laundering, which can be time-consuming and may not always remove chemical residues completely.

● Cost-Effective Solution

Affordability: Generally less expensive than reusable options when considering the cost of laundering and maintenance. Ideal for tasks involving temporary or low-duration exposure to chemicals.

Convenience: Offers a practical solution for tasks where frequent changes of protective clothing are necessary or where cleaning and maintenance would be impractical.

● Compliance with Safety Regulations

Standards Compliance: Designed to meet specific safety standards, such as those outlined in EN 13034 (Europe) or ASTM standards (US), ensuring that they provide adequate protection.

Regulatory Requirements: Helps comply with workplace safety regulations that mandate the use of appropriate personal protective equipment (PPE) when handling hazardous chemicals.

Types of Chemical Protective Clothing: 3, 4, 5, and 6

Chemical protective clothing is classified into different types based on its level of protection against various chemical hazards. These types are defined by European standards and address different scenarios of chemical exposure. Here's an overview of each type:

● Type 3: Liquid-tight Protective Clothing

Description: Provides full-body protection against liquid chemicals under pressure.

Protection Level: Ensures that no liquid chemicals penetrate through the fabric, even when exposed to chemicals under pressure.

Features: Includes full-body suits that are tested for liquid-tightness, often including features like hoods, elastic cuffs, and sealed seams.

Applications: Suitable for use in environments where chemicals are handled under pressure, such as in chemical manufacturing or processing.

Standards:

EN 943-1: Specifies requirements for clothing offering protection against chemical and biological hazards, including Type 3 clothing.

● Type 4: Spray-tight Protective Clothing

Description: Provides protection against chemical sprays and splashes.

Protection Level: Designed to prevent the penetration of chemical sprays and droplets, ensuring that workers are protected from exposure.

Features: Typically includes garments that resist spray penetration and are often used with additional protective equipment.

Applications: Ideal for environments where workers are exposed to chemicals in spray form, such as in agricultural applications or during chemical cleaning operations.

Standards:

EN 14605: Details the requirements for protective clothing against liquid chemicals and chemical sprays, including Type 4 clothing.

● Type 5: Particle-tight Protective Clothing

Description: Provides protection against airborne solid particles, such as dust and particulates.

Protection Level: Designed to prevent the ingress of solid particles, offering protection against dust and other airborne contaminants.

Features: Includes suits that are tested for resistance to particulate penetration, providing a barrier against hazardous dust.

Applications: Suitable for use in environments with high levels of dust or where airborne particles may pose a risk, such as in construction or pharmaceutical manufacturing.

Standards:

EN 13982-1: Specifies requirements for protective clothing against airborne solid particles, including Type 5 clothing.

- **Type 6: Limited Splash Protective Clothing**

Description: Offers protection against small amounts of liquid chemicals and limited splash exposure.

Protection Level: Provides a barrier against occasional chemical splashes and minor spills, though it does not offer the same level of protection as Type 3 or Type 4 clothing.

Features: Designed for limited exposure scenarios, often including garments that prevent the penetration of small amounts of chemicals.

Applications: Suitable for tasks where occasional splashes or spills of chemicals are expected, such as in laboratory work or during minor chemical handling tasks.

Standards:

EN 13034: Specifies requirements for protective clothing against limited amounts of liquid chemicals, including Type 6 clothing.

Summary of Protection Levels

Type 3: Liquid-tight protection against chemicals under pressure.

Type 4: Spray-tight protection against chemical sprays and droplets.

Type 5: Particle-tight protection against solid particles and dust.

Type 6: Limited splash protection against small amounts of liquid chemicals.

Selecting & Using Chemical Protective Clothing

- **Assess the Chemical Hazard**

Identify Exposure: Determine the type of chemical exposure (liquid, spray, particles, or splash) and select the appropriate protective clothing type.

- **Ensure Compliance with Standards**

Verify Certification: Check that the clothing meets the relevant European standards for the specific type of chemical protection.

- **Proper Use and Maintenance**

Follow Guidelines: Use protective clothing according to manufacturer instructions to ensure effective protection.

Disposal: Dispose of disposable clothing according to safety and environmental regulations

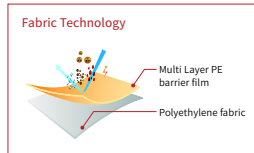




ChemiGuard®

Chemical Protective Clothing

Jet-Pro 6000 Plus



Product Specification

Product Type	Protective Clothing
Material	Polyethylene
Protection Level	Type 3, 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

1 Piece / Polybag
30 Piece / Carton



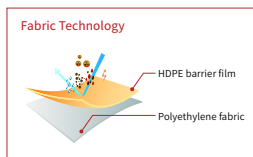
Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-JP6000PL	Large	Grey	810148534028	00810148534462
BLSH-CG-JP6000PXL	X-Large	Grey	810148534035	00810148534479



ChemiGuard[®]

Chemical Protective Clothing

Jet-Pro 5000 Plus



Product Specification

Product Type	Protective Clothing
Material	Polyethylene
Protection Level	Type 3, 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

1 Piece / Polybag
30 Piece / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-JP5000PL	Large	Yellow	810148534004	00810148534448
BLSH-CG-JP5000PXL	X-Large	Yellow	810148534011	00810148534455
BLSH-CG-JP5000PXXL	XX-Large	Yellow	810148534738	00810148534745

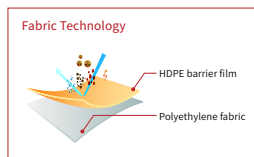




ChemiGuard[®]

Chemical Protective Clothing

Jet-Pro 5000 Airline Suit



Product Specification

Product Type	Protective Clothing
Material	Polyethylene
Protection Level	Type 3, 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

1 Piece / Polybag

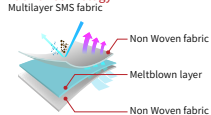
Product SKU	Size	Colour
BLSH-CG-JP5000ALS-L	Large	Yellow



Dry-Pro 1000



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Product Specification

Product Type	Protective Clothing
Material	Polypropylene
Protection Level	Type 5 & 6
Protection Against	Dust Particles & Light Splash

Packaging Information

1 Piece / Polybag
50 Piece / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-DP1000M	Medium	White	810148534165	00810148534608
BLSH-CG-DP1000L	Large	White	810148534172	00810148534615
BLSH-CG-DP1000XL	X-Large	White	810148534189	00810148534622
BLSH-CG-DP1000XXL	XX-Large	White	810148534196	00810148534639

Light-Pro 2000



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Product Specification

Product Type	Protective Clothing
Material	Polypropylene
Protection Level	Type 5 & 6
Protection Against	Dust Particles & Light Splash

Packaging Information

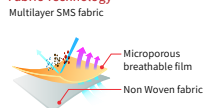
1 Piece / Polybag
50 Piece / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-LP2000M	Medium	White	810148534080	00810148534523
BLSH-CG-LP2000L	Large	White	810148534097	00810148534530
BLSH-CG-LP2000XL	X-Large	White	810148534103	00810148534547
BLSH-CG-LP2000XXL	XX-Large	White	810148534110	00810148534554

Light-Pro 2000 Plus



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Product Specification

Product Type	Protective Clothing
Material	Polypropylene
Protection Level	Type 5 & 6
Protection Against	Dust Particles & Light Splash

Packaging Information

1 Piece / Polybag
50 Piece / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-LP2000PM	Medium	White	810148534127	00810148534561
BLSH-CG-LP2000PL	Large	White	810148534134	00810148534578
BLSH-CG-LP2000PXL	X-Large	White	810148534141	00810148534585
BLSH-CG-LP2000PXXL	XX-Large	White	810148534158	00810148534592

Spray-Pro 3000



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Stitch length: 3-4 stitch per CM
- Elegant and Sturdy
- Hard to crack



Product Specification

Product Type	Protective Clothing
Material	Polypropylene
Protection Level	Type 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

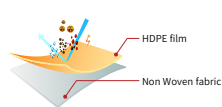
1 Piece / Polybag
50 Piece / Carton

Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-SP3000M	Medium	White	810148534042	00810148534486
BLSH-CG-SP3000L	Large	White	810148534059	00810148534493
BLSH-CG-SP3000XL	X-Large	White	810148534066	00810148534509
BLSH-CG-SP3000XXL	XX-Large	White	810148534073	00810148534516

Jet-Pro 4000



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Hot-melt strips

Product Specification

Product Type	Protective Clothing
Material	Polypropylene with Multi Layer PE film
Protection Level	Type 3, 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

1 Piece / Polybag
30 Piece / Carton

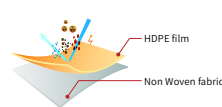


Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-JP4000M	Medium	Yellow	810148533854	00810148534295
BLSH-CG-JP4000L	Large	Yellow	810148533861	00810148534301
BLSH-CG-JP4000XL	X-Large	Yellow	810148533878	00810148534318
BLSH-CG-JP4000XXL	XX-Large	Yellow	810148533885	00810148534325

Jet-Pro 4000 Plus



Fabric Technology



Seam Structure

- Reinforced four-line stitching
- Hot-melt strips

Product Specification

Product Type	Protective Clothing
Material	Polypropylene with Multi Layer PE film
Protection Level	Type 3, 4, 5 & 6
Protection Against	Liquid Spray

Packaging Information

1 Piece / Polybag
30 Piece / Carton



Product SKU	Size	Colour	Inner pack UPC	Carton GTIN
BLSH-CG-JP4000PL	Large	Yellow	810148533892	00810148534332
BLSH-CG-JP4000PXL	X-Large	Yellow	810148533908	00810148534349
BLSH-CG-JP4000PXXL	XX-Large	Yellow	810148533915	00810148534356



Jet-Pro 4007
(Back Open Sleeve Apron)



Jet-Pro 4003
(Bib Apron)



Jet-Pro 4005
(Hooded Jacket)



Jet-Pro 4004
(Hand Sleeve)



Jet-Pro 4006
(Elasticated Pant)



Jet-Pro 4001
(Boot Cover)



Light-Pro 2001
(Boot Cover)

Model	Product Description	Product SKU	Size	Colour	Inner pack UPC	Carton GTIN	Packaging information
Light-Pro 2001	Boot Cover	BLSH-CG-LP2001M	OSFM	White	810148534202	00810148534646	1 Pair / Polybag, 150 Pairs/ Carton
Jet-Pro 4001	Boot Cover	BLSH-CG-JP4001	OSFM	Yellow	810148534219	00810148534684	1 Pair / Polybag, 150 Pairs/ Carton
Jet-Pro 4003	Bib Apron	BLSH-CG-JP4003	OSFM	Yellow	810148534226	00810148534653	1 Piece / Polybag, 150 Pieces / Carton
Jet-Pro 4004	Hand Sleeve	BLSH-CG-JP4004	OSFM	Yellow	810148534240	00810148534677	1 Pair / Polybag, 150 Pairs/ Carton
Jet-Pro 4005	Hooded Jacket	BLSH-CG-JP4005M	Medium	Yellow	810148533922	00810148534363	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4005	Hooded Jacket	BLSH-CG-JP4005L	Large	Yellow	810148533939	00810148534370	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4005	Hooded Jacket	BLSH-CG-JP4005XL	X-Large	Yellow	810148533946	00810148534387	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4005	Hooded Jacket	BLSH-CG-JP4005XXL	XX-Large	Yellow	810148533953	00810148534394	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4006	Elasticated Pant	BLSH-CG-JP4006M	Medium	Yellow	810148533960	00810148534400	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4006	Elasticated Pant	BLSH-CG-JP4006L	Large	Yellow	810148533977	00810148534417	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4006	Elasticated Pant	BLSH-CG-JP4006XL	X-Large	Yellow	810148533984	00810148534424	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4006	Elasticated Pant	BLSH-CG-JP4006XXL	XX-Large	Yellow	810148533991	00810148534431	1 Piece / Polybag, 60 Pieces / Carton
Jet-Pro 4007	Back Open Sleeve Apron	BLSH-CG-JP4007	OSFM	Yellow	810148534233	00810148534660	1 Piece / Polybag, 80 Pieces / Carton



Basic Range

100% Cotton or Cotton blend fabric workwear.



Hi-Viz

100% Cotton or Cotton blend fabric workwear with high quality reflective tape for high visibility application.



IFR

Meta Aramid + Para Aramid + Antistatic Blend fabric workwear for fire retardant application.

Suit & Coverall options available.

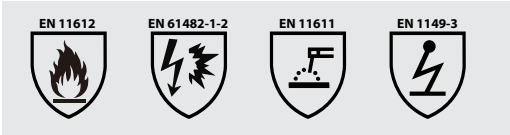
FR

Modacrylic + Cotton + Anti-static Blend fabric workwear for fire retardant application.

Suit & Coverall options available.

*All Of The Above Products Come With Full Customization Options.

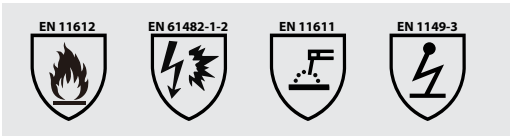
8 / 12 Cal Arc Flash Coverall



Product SKU	Colour	Packaging information
BLSH-SA-AFC-8C	Navy Blue	1 Set / Kit
BLSH-SA-AFC-12C	Navy Blue	1 Set / Kit

*Available FR & IFR Material

8 / 12 Cal Arc Flash Suit



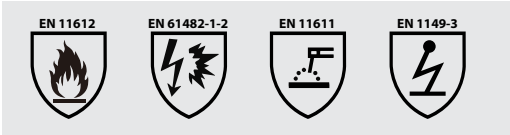
Product SKU	Colour	Packaging information
BLSH-SA-AFS-8C	Navy Blue	1 Set / Kit
BLSH-SA-AFS-12C	Navy Blue	1 Set / Kit

*Available FR & IFR Material

25 / 33 / 40 Cal Arc Flash Coverall



*Available FR & IFR Material

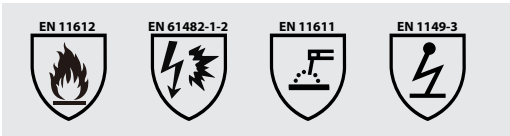


Product SKU	Colour	Packaging information
BLSH-SA-AFC-25C	Navy Blue	1 Set / Kit
BLSH-SA-AFC-33C	Navy Blue	1 Set / Kit
BLSH-SA-AFC-40C	Navy Blue	1 Set / Kit

25 / 33 / 40 Cal Arc Flash Suit



*Available FR & IFR Material



Product SKU	Colour	Packaging information
BLSH-SA-AFS-25C	Navy Blue	1 Set / Kit
BLSH-SA-AFS-33C	Navy Blue	1 Set / Kit
BLSH-SA-AFS-40C	Navy Blue	1 Set / Kit



SPILL CONTROL SOLUTIONS



SpillProtec[®]

Spill Protection in Workplace Safety

Spills of hazardous substances in the workplace can pose significant risks to health, safety, and the environment. Proper spill protection measures are essential to prevent accidents, reduce health hazards, and ensure compliance with safety regulations. SpillProtec® range of offers complete spill protection and helps to implement effective spill management in the workplace.

Importance of Spill Protection

● Health and Safety

Preventing Injuries: Spills, especially of slippery or hazardous substances, can lead to slips, trips, and falls, resulting in injuries.

Reducing Exposure: Hazardous chemical spills can cause respiratory problems, skin irritation, and other health issues. Proper spill protection helps minimize exposure and health risks.

● Environmental Protection

Avoiding Contamination: Chemical spills can contaminate soil, water sources, and ecosystems. Effective spill protection helps prevent environmental contamination.

Regulatory Compliance: Organizations must adhere to environmental regulations regarding the handling and disposal of hazardous substances. Proper spill management ensures compliance with these regulations.

● Financial Impact

Minimizing Costs: Spills can lead to costly cleanups, fines, and lawsuits. Preventing spills and managing them effectively can reduce these financial burdens.

Protecting Assets: Spills can damage equipment, property, and products. Spill protection measures help protect valuable assets from damage.

Strategies for Effective Spill Protection

● Spill Prevention

Proper Storage: Store hazardous substances in appropriate, labelled containers with secure lids. Use secondary containment systems to prevent leaks.

Training & Awareness: Train employees on proper handling and storage of hazardous materials. Raise awareness about the risks and prevention strategies.

● Spill Control Measures

Spill Containment: Use spill containment equipment such as trays, berms, and absorbent pads to confine spills and prevent them from spreading.

Spill Kits: Equip work areas with spill kits containing absorbent materials, neutralizers, and protective gear. Ensure kits are easily accessible and regularly inspected.

● Spill Response Plan

Emergency Procedures: Develop and implement a spill response plan outlining steps to take in the event of a spill. Ensure employees are familiar with the plan.

Personal Protective Equipment (PPE): Provide appropriate PPE, such as gloves, goggles, and respirators, for employees involved in spill cleanup.

● Proper Cleanup and Disposal

Cleanup Protocols: Establish protocols for cleaning up different types of spills. Use appropriate absorbents, neutralizers, and cleaning agents.

Waste Disposal: Dispose of contaminated materials and waste according to regulatory guidelines. Use designated containers for hazardous waste.



Types of Spill Protection Equipment

● Absorbents

Description: Materials that soak up liquids, preventing them from spreading.

Examples: Absorbent pads, socks, and granules for oil, chemicals, and other liquids.

● Spill Containment Pallets & Workstations

Description: Devices that contain spills and prevent them from spreading.

Examples: Spill pallets & workstations, IBC pallet

● Spill Kits

Description: Pre-packaged kits containing various spill response tools.

Examples: Universal spill kits, oil-only spill kits, and chemical spill kits.

Benefits of Spill Protection

● Enhanced Safety

Risk Reduction: Minimizes the risk of accidents, injuries, and health issues related to hazardous spills.

Preparedness: Ensures that employees are prepared to respond quickly and effectively to spills.

● Environmental Stewardship

Pollution Prevention: Prevents contamination of soil, water, and air, protecting the environment.

Sustainable Practices: Supports sustainability initiatives by reducing the environmental impact of spills.

● Regulatory Compliance

Legal Adherence: Ensures compliance with health, safety, and environmental regulations.

Avoiding Penalties: Helps avoid fines, sanctions, and legal action due to non-compliance.

● Cost Savings

Reduced Cleanup Costs: Effective spill management reduces the costs associated with spill cleanup and remediation.

Asset Protection: Protects equipment, property, and products from damage, preserving their value.

ASTM F726

ASTM F726 is a standard developed by ASTM International (formerly known as the American Society for Testing and Materials) that specifies the test methods for determining the sorbent performance of absorbent materials used to clean up oil spills.

Here's a brief overview:

● Purpose:

The standard is used to evaluate the efficiency and effectiveness of sorbent materials in absorbing oil and other petroleum-based liquids. It provides guidelines on how to measure the absorption capacity and retention of the sorbents.

● Test Methods:

ASTM F726 outlines procedures for testing sorbent materials, including:

Sorbent Capacity Test: Measures the amount of liquid a sorbent can absorb per unit mass or volume.

Retention Test: Assesses the amount of liquid retained by the sorbent after a specific period under certain conditions.

Rate of Absorption: Evaluates how quickly the sorbent absorbs the liquid.

Regulations and Compliance:

● 40 CFR 264.175:

Hazardous waste containment systems must be free of structural cracks or gaps, be designed to keep spilled liquids from remaining in contact with the container, prevent run-on and "have sufficient capacity to contain 10% of the volume of the containers, or the volume of the largest container, whichever is greater.

● 40 CFR 122.26:

When applying for a National Pollutant Discharge Elimination System (NPDES) permit, facilities must have a plan in place that describes actions, procedures, control techniques, management practices and equipment available to prevent illegal discharge of pollutants into waterways.

● 40 CFR 112.7:

SPCC planning requirements state that facilities subject to these regulations must have written plans in place discussing the products, countermeasures and procedures that are in place, or will be taken by the facility to prevent discharge of oil into waters of the United States.



CASK15



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

Chemical Absorbent pads 40 x 50cm, 2mm	15 Pcs
Chemical Absorbent Socks ϕ 7.6cm x 1.2M	1 Pc
Disposable Bag & Tie	1 Set
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
6 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-15L-Y	810090089225	00810090089225

CASK20



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

Chemical Absorbent pads 40 x 50cm, 2mm	20 Pcs
Chemical Absorbent Socks ϕ 7.6cm x 1.2M	2 Pcs
Disposable Bag & Tie	1 Set
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggles	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
4 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-20L-Y	810090089232	00810090089232

CASK30



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 30Liters).

Product Information

Chemical Absorbent Pads 40 x 50cm, 2mm	20 Pcs
Chemical Absorbent Socks ϕ 7.6cm x 1.2M	2 Pcs
Chemical Absorbent Pillow 20 x 25cm	2 Pcs
Disposable Bags & Ties	2 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggles	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	1 Pair
Yellow Caution Tape Roll	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
3 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-30L-Y	810090089249	00810090089249

CASK50



SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

Chemical Absorbent Pads 40 x 50cm, 2mm	45 Pcs
Chemical Absorbent Socks ϕ 7.6cm x 1.2M	3 Pcs
Chemical Absorbent Pillow 20 x 25cm	5 Pcs
Disposable Bags & Ties	3 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggle	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Reusable Half Face Respirator with OV/AG Cartridge	1 Set
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	1 Pair
Yellow Caution Tape Roll	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
2 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-50L-Y	810090089256	00810090089256

Chemical Spill Kit

CASK100

SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

Chemical Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Chemical Absorbent Socks ø7.6cm x 1.2M	8 Pcs
Disposable Bags & Ties	3 Sets
15Mil Nitrile Flocklined Gloves	2 Pairs
Safety Goggle	1 Pc
Respirator (H300+GF201)	1Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
100L Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton



Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-100L-Y	810090089263	00810090089263

CASK240

SpillProtec Chemical absorbent Kit are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

Chemical Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Chemical Absorbent Socks ø7.6cm x 1.2M	16 Pcs
Chemical Absorbent Pillow 40 x 50cm	8 Pcs
Disposable Bags & Ties	15 sets
15Mil Nitrile Flocklined Gloves	4 Pairs
Safety Goggle	4 Pcs
Respirator (H300+GF201)	1Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
240L Plastic Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton



Product SKU	Inner pack UPC	Carton GTIN
BLSH-CHAK-240L-Y	810090089270	00810090089270

OASK15



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

Oil Absorbent pads 40 x 50cm, 2mm	15 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	1 Pc
Disposable Bag & Tie	1 Set
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
6 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-15L-W	810090089164	00810090089164

OASK20



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

Oil Absorbent pads 40 x 50cm, 2mm	20 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	2 Pcs
Disposable Bag & Tie	1 Set
15 Mil Nitrile Flocklined Gloves	1 Pair
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
4 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-20L-W	810090089171	00810090089171

OASK30



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 30 Liters).

Product Information

Oil Absorbent Pads 40 x 50cm, 2mm	20 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	2 Pcs
Oil Absorbent Pillow 20 x 25cm	2 Pcs
Disposable Bags & Ties	2 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggles	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	1 Pair
Yellow Caution Tape Roll	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
3 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-30L-W	810090089188	00810090089188

OASK50



SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

Oil Absorbent Pads 40 x 50cm, 2mm	45 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	3 Pcs
Oil Absorbent Pillow 20 x 25cm	5 Pcs
Disposable Bags & Ties	3 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggle	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Reusable Half Face Respirator with OV/AG Cartridge	1 Pc
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	
Yellow Caution Tape Roll	
Pen with Checklist	
Instruction Guide	
Chemical Compatibility Guide	
Spill Kit Bag	

Packaging Information

1 Kit / Bag
2 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-50L-W	810090089195	00810090089195

OASK100

SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

Oil Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	8 Pcs
Disposable Bags & Ties	3 Sets
15Mil Nitrile Flocklined Gloves	2 Pairs
Safety Goggle	1 Pc
Respirator (H300+GF201)	1 Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
100L Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton



Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-100L-W	810090089201	00810090089201

UASK240

SpillProtec Oil absorbent Kit are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

Oil Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Oil Absorbent Socks ø7.6cm x 1.2M	16 Pcs
Oil Absorbent Pillow 40 x 50cm, 2mm	8 Pcs
Disposable Bags & Ties	15 sets
15Mil Nitrile Flocklined Gloves	4 Pairs
Safety Goggle	4 Pcs
Respirator (H300+GF201)	1Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
240L Plastic Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton



Product SKU	Inner pack UPC	Carton GTIN
BLSH-OAK-100L-W	810090089201	00810090089201

UASK15



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 15 Liters).

Product Information

Universal Absorbent pads 40 x 50cm, 2mm	15 Pcs
Universal Absorbent Socks ϕ 7.6cm x 1.2M	1 Pc
Disposable Bag & Tie	1 Set
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
6 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-15L-GY	810090089287	00810090089287

UASK20



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 20 Liters).

Product Information

Universal Absorbent pads 40 x 50cm, 2mm	20 Pcs
Universal Absorbent Socks ϕ 7.6cm x 1.2M	2 Pcs
Disposable Bag & Tie	1 Set
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggles	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Universal Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
4 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-20L-GY	810090089294	00810090089294

UASK30



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 30 Liters).

Product Information

Universal Absorbent Pads 40 x 50cm, 2mm	20 Pcs
Universal Absorbent Socks ϕ 7.6cm x 1.2M	2 Pcs
Universal Absorbent Pillow 20 x 25cm	2 Pcs
Disposable Bags & Ties	2 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggles	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Disposable Respirator OV/AG	1 Pc
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	1 Pair
Yellow Caution Tape Roll	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Universal Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
3 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-30L-GY	810090089300	00810090089300

UASK50



SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 50 Liters).

Product Information

Universal Absorbent Pads 40 x 50cm, 2mm	45 Pcs
Universal Absorbent Socks ϕ 7.6cm x 1.2M	3 Pcs
Universal Absorbent Pillow 20 x 25cm	5 Pcs
Disposable Bags & Ties	3 Sets
15 Mil Nitrile Flocklined Gloves	1 Pair
Safety Goggle	1 Pc
Dust Pan and Wiper Set	1 Pc
Emergency Eyewash Bottle	1 Pc
Reusable Half Face Respirator with OV/AG Cartridge	1 Set
Coverall Jet-Pro 4000 (Type 3,4,5 & 6)	1 Pc
Chemical Resistant Shoe Cover	1 Pair
Yellow Caution Tape Roll	1 Pc
Pen with Checklist	1 Pc
Instruction Guide	1 Pc
Universal Compatibility Guide	1 Pc
Spill Kit Bag	1 Pc

Packaging Information

1 Kit / Bag
2 Kits / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-50L-GY	810090089317	00810090089317

UASK100

SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 100 Liters).

Product Information

Universal Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Universal Absorbent Socks ø7.6cm x 1.2M	8 Pcs
Disposable Bags & Ties	3 Sets
15Mil Nitrile Flocklined Gloves	2 Pairs
Safety Goggle	1 Pc
Respirator (H300+GF201)	1Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
100L Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-100L-GY	810090089324	00810090089324



UASK240

SpillProtec Universal absorbent Kit are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled (Absorb capacity - 240 Liters).

Product Information

Universal Absorbent Pads 40 x 50cm, 2mm	100 Pcs
Universal Absorbent Socks ø7.6cm x 1.2M	16 Pcs
Universal Absorbent Pillow 40 x 50cm, 2mm	8 Pcs
Disposable Bags & Ties	15 Sets
15Mil Nitrile Flocklined Gloves	4 Pairs
Safety Goggle	4 Pcs
Respirator (H300+GF201)	1Set
Chemical Coverall (Jet-Pro 4000)	1 Pc
Chemical Shoe Cover	1 Pair
Pen	1 Pc
Instruction Guide	1 Pc
Chemical Compatibility Guide	1 Pc
240L Plastic Wheelie Bin	1 Pc
Dust Pan with Wiper	1 Pc
Caution Floor Sign Board	1 Pc
Yellow Caution Tape	1 Pc
Eye Wash Bottle	1 Pc

Packaging Information

1 Kit / Bin
1 Kit / Carton

Product SKU	Inner pack UPC	Carton GTIN
BLSH-UAK-240L-GY	810090089331	00810090089331



Chemical Absorbent Pad

SpillProtec Chemical absorbent pads are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.



Product Information

Model	CAPD2120	CAPD4105	CAPD5120
Material	Polypropylene	Polypropylene	Polypropylene
Color	Yellow	Yellow	Yellow
Dimension	40 x 50 (CM)	40 x 50 (CM)	40 x 50 (CM)
Thickness	2 MM	4 MM	5 MM
Absorption capacity	120 L	105 L	120 L
Pieces / Carton	200	100	100
Product SKU	BLSH-CAPD2120	BLSH-CAPD4105	BLSH-CAPD5120
Carton GTIN	00810148530662	00810148530679	00810148530686

Chemical Absorbent Roll

SpillProtec Chemical absorbent rolls are designed to absorb acids, bases, and unknown liquids that are dripped, leaked & spilled.

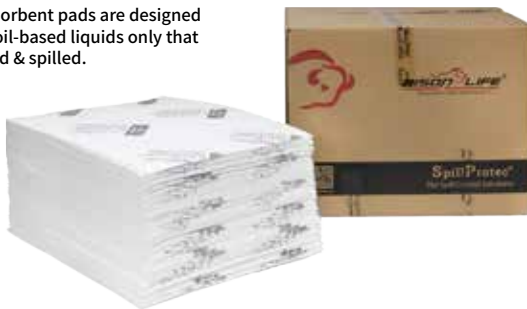


Product Information

Model	CARL260	CARL375	CARL3150	CARL490
Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color	Yellow	Yellow	Yellow	Yellow
Dimension	40 x 50 (CM)	40 x 50 (CM)	80 x 50 (CM)	40 x 50 (CM)
Thickness	2 MM	3 MM	3 MM	4 MM
Absorption capacity	60 L	75 L	150 L	90 L
Pieces / Carton	1	1	1	1
Product SKU	BLSH-CARL260	BLSH-CARL375	BLSH-CARL3150	BLSH-CARL490
Carton GTIN	00810148530761	00810148530778	00810148530785	00810148530792

Oil Absorbent Pad

SpillProtec Oil absorbent pads are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.



Product Information

Model	OAPD2144	OAPD4108	OAPD5144
Material	Polypropylene	Polypropylene	Polypropylene
Color	White	White	White
Dimension	40 x 50 (CM)	40 x 50 (CM)	40 x 50 (CM)
Thickness	2 MM	4 MM	5 MM
Absorption capacity	144 L	108 L	144 L
Pieces / Carton	200	100	100
Product SKU	BLSH-OAPD2144	BLSH-OAPD4108	BLSH-OAPD5144
Carton GTIN	00810148530631	00810148530648	00810148530655

Oil Absorbent Roll

SpillProtec Oil absorbent rolls are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.



Product Information

Model	OARL272	OARL2144	OARL3180	OARL4108
Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color	White	White	White	White
Dimension	40CM x 50M	80CM x 50M	80CM x 50M	40CM x 50M
Thickness	2 MM	2 MM	3 MM	4 MM
Absorption capacity	72 L	144 L	180 L	108 L
Pieces / Carton	1	1	1	1
Product SKU	BLSH-OARL272	BLSH-OARL2144	BLSH-OARL3180	BLSH-OARL4108
Carton GTIN	00810148530723	00810148530730	00810148530747	00810148530754

Universal Absorbent Pad

SpillProtec Universal absorbent pads are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.



Product Information

Model	UAPD2120	UAPD4105	UAPD5120
Material	Polypropylene	Polypropylene	Polypropylene
Color	Grey	Grey	Grey
Dimension	40 x 50 (CM)	40 x 50 (CM)	40 x 50 (CM)
Thickness	2 MM	4 MM	5 MM
Absorption capacity	120 L	105 L	120 L
Pieces / Carton	200	100	100
Product SKU	BLSH-UAPD2120	BLSH-UAPD4105	BLSH-UAPD5120
Carton GTIN	00810148530693	00810148530709	00810148530716

Universal Absorbent Roll

SpillProtec Universal absorbent rolls are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.



Product Information

Model	UARL260	UARL375	UARL3150	UARL490
Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color	Grey	Grey	Grey	Grey
Dimension	40CM x 50M	40CM x 50M	80CM x 50M	40CM x 50M
Thickness	2 MM	3 MM	3 MM	4 MM
Absorption capacity	60 L	75 L	150 L	90 L
Pieces / Carton	1	1	1	1
Product SKU	BLSH-UARL260	BLSH-UARL375	BLSH-UARL3150	BLSH-UARL490
Carton GTIN	00810148530808	00810148530815	00810148530822	00810148530839

Chemical Absorbent Pillow



SpillProtec Chemical absorbent pillow are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.

Product Information

Model	CAPW4575	CAPW3495
Material	Polypropylene	Polypropylene
Color	Yellow	Yellow
Dimension	40 x 50 (CM)	30 x 40 (CM)
Absorption capacity	75 L	95 L
Pieces / Carton	10	24
Product SKU	BLSH-CAPW4575	BLSH-CAPW3495
Carton GTIN	00810148530914	00810148530938

Chemical Absorbent Sock



SpillProtec Chemical absorbent socks are designed to absorb acids, bases, and unknown liquids that are dripped, leaked & spilled.

Product Information

Model	CASC3063	CASC12170
Material	Polypropylene	Polypropylene
Color	Yellow	Yellow
Dimension	φ7.6 CM x 3.0 M	φ7.62 C M x 1.2 M
Absorption capacity	63 L	170 L
Pieces / Carton	5	24
Product SKU	BLSH-CASC31063	BLSH-CASC12170
Carton GTIN	00810148530877	00810148530969

Oil Absorbent Pillow



SpillProtec Oil absorbent pillow are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

Model	OAPW4590	OAPW3495
Material	Polypropylene	Polypropylene
Color	White	White
Dimension	40 x 50 (CM)	30 x 40 (CM)
Absorption capacity	90 L	95 L
Pieces / Carton	10	24
Product SKU	BLSH-OAPW4590	BLSH-OAPW3495
Carton GTIN	00810148530891	00810148530921

Oil Absorbent Socks/Boom



SpillProtec Oil absorbent Sock & Boom are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

Model	O ASC3075	OABM3130	OABM6130	OASC12170
Material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color	White	White	White	White
Dimension	φ7.6CM x 3.0M	φ12.7CM x 3.0M	φ12.7CM x 6.0M	φ7.62cm x 1.2m
Absorption capacity	75 L	130 L	130 L	170 L
Pieces / Carton	5	4	2	24
Product SKU	BLSH-OASC3075	BLSH-OABM3130	BLSH-OABM6130	BLSH-OASC12170
Carton GTIN	00810148530846	00810148530853	00810148530860	00810148530952

Universal Absorbent Pillow



SpillProtec Universal absorbent pillow are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

Model	UAPW4575	UAPW3495
Material	Polypropylene	Polypropylene
Color	Grey	Grey
Dimension	40 x 50 (CM)	30 x 40 (CM)
Absorption capacity	75 L	95 L
Pieces / Carton	10	24
Product SKU	BLSH-UAPW4575	BLSH-UAPW3495
Carton GTIN	00810148530907	00810148530945

Universal Absorbent Socks



SpillProtec Universal absorbent socks are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

Model	UASC3063	UASC12170
Material	Polypropylene	Polypropylene
Color	Grey	Grey
Dimension	φ7.6 CM x 3.0 M	φ7.62 C M x 1.2 M
Absorption capacity	63 L	170 L
Pieces / Carton	5	24
Product SKU	BLSH-UASC31063	BLSH-UASC12170
Carton GTIN	00810148530884	00810148530976

Chemical Absorbent Drum Top Pad

SpillProtec Chemical absorbent Drum Top Pad are designed to absorb acids, bases, unknown liquids that are dripped, leaked & spilled.

Product Information

Model	CABP385
Material	Polypropylene
Color	Yellow
Dimension	φ 550mm
Thickness	3 MM
Absorption capacity	85 L
Pieces / Carton	50
Product SKU	BLSH-CABP385
Carton GTIN	00810148530990



Oil Absorbent Drum Top Pad

SpillProtec Oil absorbent Drum Top Pad are designed to absorb oil and oil-based liquids only that are dripped, leaked & spilled.

Product Information

Model	OABP3100
Material	Polypropylene
Color	White
Dimension	φ 550mm
Thickness	3 MM
Absorption capacity	100 L
Pieces / Carton	50
Product SKU	BLSH-OABP3100
Carton GTIN	00810148530983



Universal Absorbent Drum Top Pad

SpillProtec Universal absorbent Drum Top Pad are designed to absorb oils, coolants, solvents & water that are dripped, leaked & spilled.

Product Information

Model	UABP385
Material	Polypropylene
Color	Grey
Dimension	φ 550mm
Thickness	3 MM
Absorption capacity	85 L
Pieces / Carton	50
Product SKU	BLSH-UABP385
Carton GTIN	00810148531003



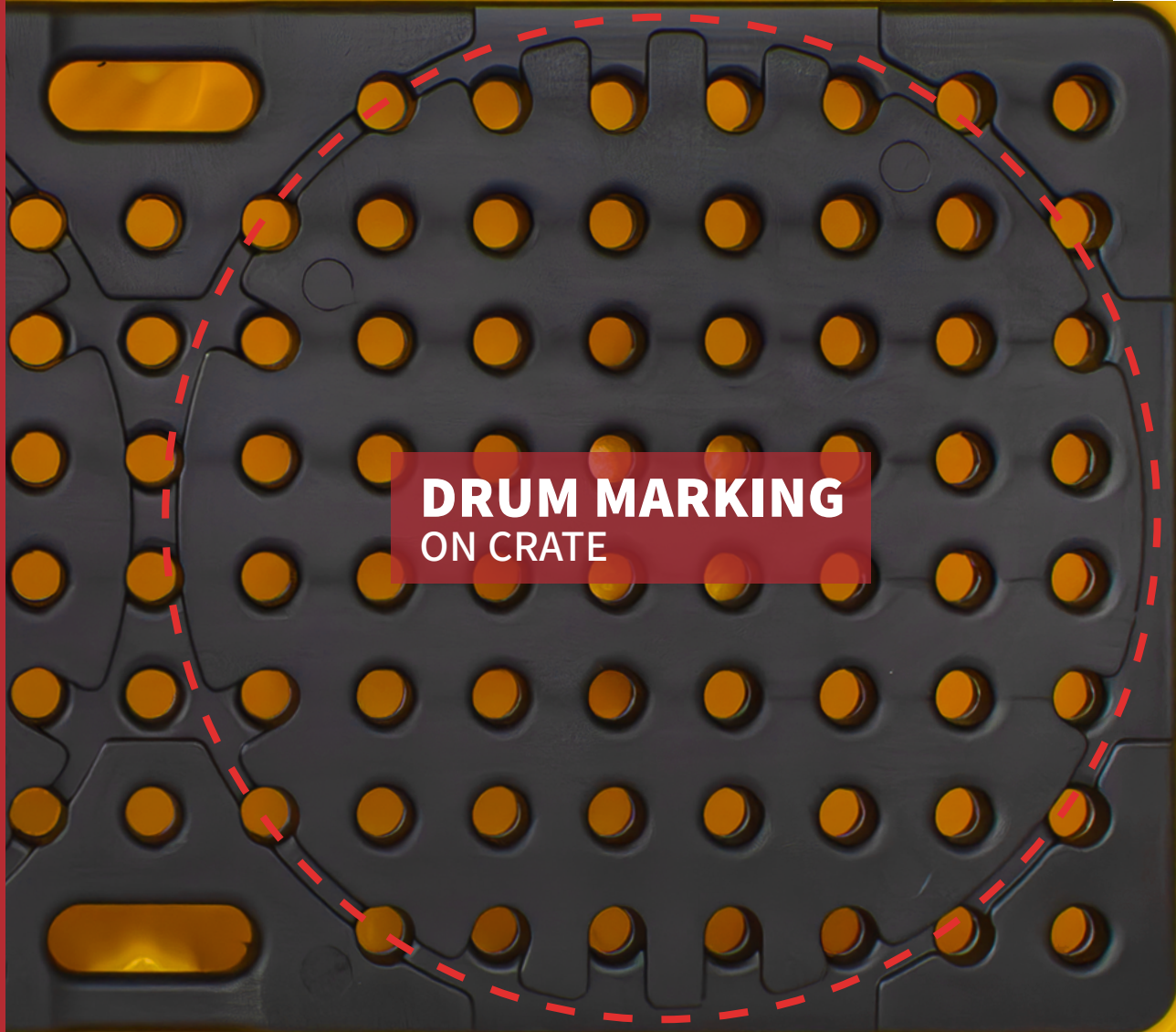
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Spill Control Solutions

Prepare for
spill emergencies
with **SpillProtec®**
spill Pallets



KEY FEATURES



**DRUM MARKING
ON CRATE**



**DRAIN PLUG
INNER VIEW**



**DRAIN PLUG
OUTER VIEW**

SCP2D70

2 Drum Spill Containment Pallet

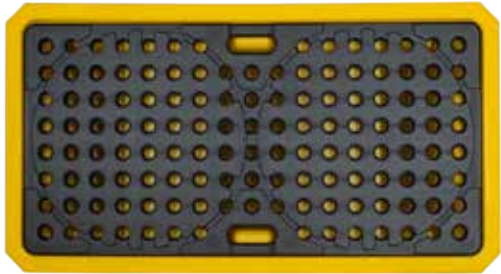
Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x69x15cm
No of Drum / Tank	2 Drum
Sump Capacity	70 L
Loading Capacity	1500 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP2-070	00810090089065



SCP2D120

2 Drum Spill Containment Pallet

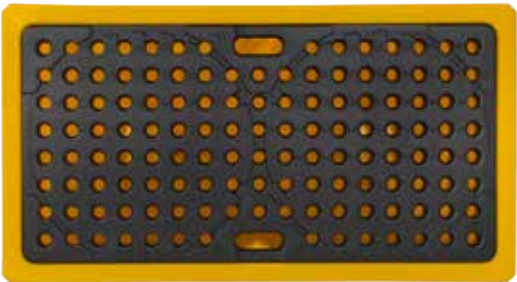
Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x69x30cm
No of Drum / Tank	2 Drum
Sump Capacity	120 L
Loading Capacity	1500 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP2-120	00810090089041



SCP2D150

2 Drum Spill Containment Pallet

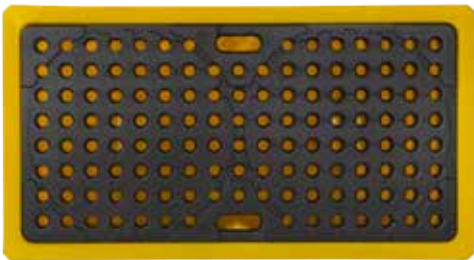
Product Specification

Material	1Polyethylene
Colour	Yellow / Black
Dimension	130x69x30cm
No of Drum / Tank	2 Drum
Sump Capacity	150 L
Loading Capacity	1200 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP2-150	00810090089027



SCP4D120

4 Drum Spill Containment Pallet

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x130x15cm
No of Drum / Tank	4 Drum
Sump Capacity	120 L
Loading Capacity	2000 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP4-120	00810090089072



SCP4D245

4 Drum Spill Containment Pallet

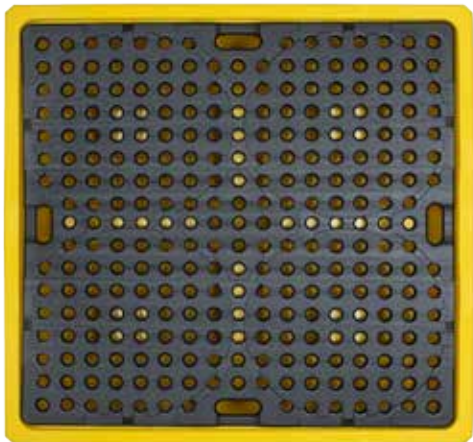
Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x130x30cm
No of Drum / Tank	4 Drum
Sump Capacity	245 L
Loading Capacity	3000 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP4-245	00810188145444



SCP4D280

4 Drum Spill Containment Pallet

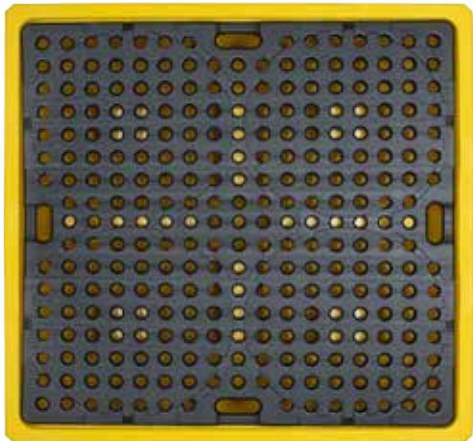
Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x130x30cm
No of Drum / Tank	4 Drum
Sump Capacity	280 L
Loading Capacity	2600 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCP4-280	00810090089034



Spill Containment Pallet

SpillProtec® Series

SCIBC1300

IBC Drum Spill Containment Pallet

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	138x138x90cm
No of Drum / Tank	1 Tank
Sump Capacity	1300 L
Loading Capacity	3000 Kg
Forklift Operation	Yes
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCIP-1300	00810090089058



Spill Containment Workstation

SpillProtec® Series

SCW1D43

Single Drum Spill Containment Workstation

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	68x68x15cm
No of Drum	1 Drum
Sump Capacity	43 L
Loading Capacity	500 Kg
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCW1-043	00810090089133



SCW2D45

2 Drum Spill Containment Workstation

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x68x10cm
No of Drum	2 Drum
Sump Capacity	45 L
Loading Capacity	1200 Kg
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCW2-045	00810090089157



SCW4D80

4 Drum Spill Containment Workstation

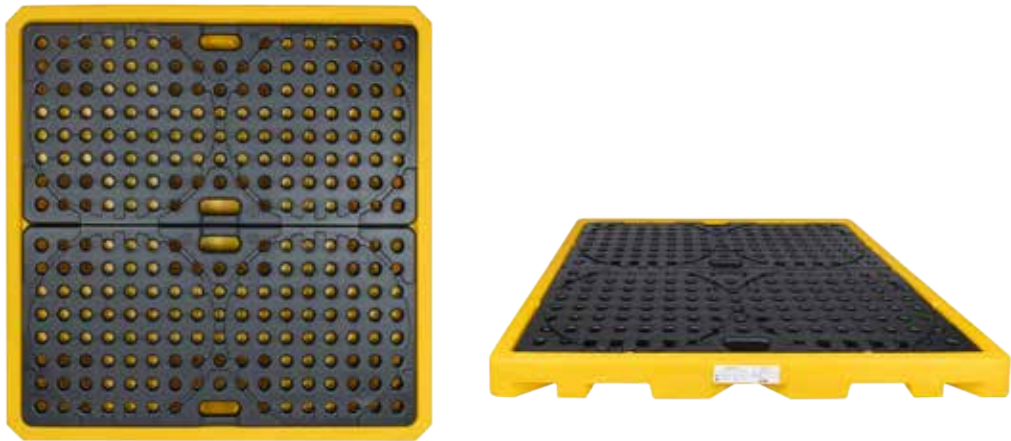
Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	130x130x10cm
No of Drum	4 Drum
Sump Capacity	80 L
Loading Capacity	3000 Kg
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCW4-080	00810090089140



SCWD20

Small Drum Spill Containment Workstation

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	68x38x12cm
Sump Capacity	20 L
Loading Capacity	80 Kg
Drain Plug	Yes

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCW-020	00810090089119



SCWLD11

Laboratory Desktop Spill Containment Workstation

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	53x41x12cm
Sump Capacity	11 L
Loading Capacity	30 Kg

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SLD-011	00810090089126



RSCP

Ramp for Spill Containment Pallet

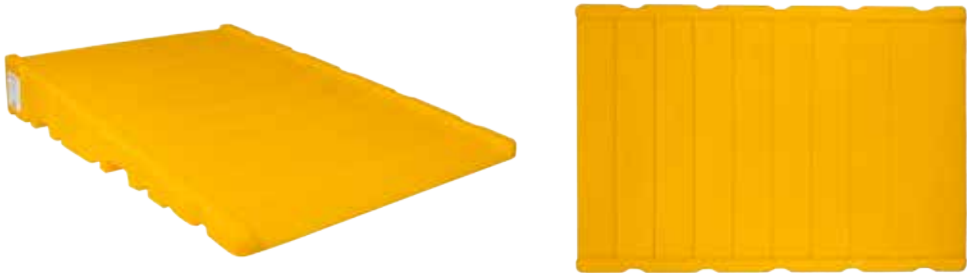
Product Specification

Material	Polyethylene
Colour	Yellow
Static Load	200 Kg
Dimension	122X82X32
Compatible with	SCP4D280, SCP2D120, SCP2D150

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-RSCP-100	00810090089089



RSCW

Ramp for Spill Containment Workstation

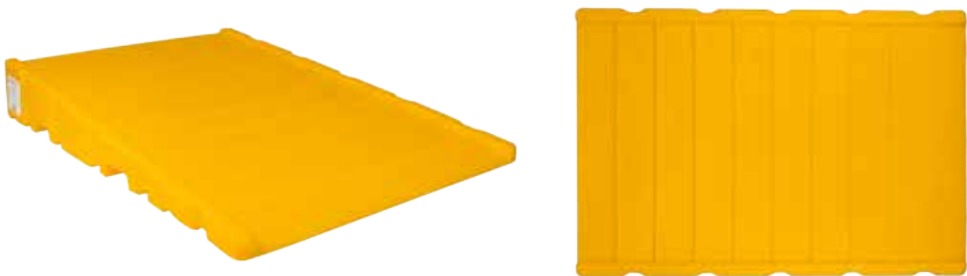
Product Specification

Material	Polyethylene
Colour	Yellow
Static Load	200 Kg
Dimension	22X82X17
Compatible with	SCP2D70, SCP4D120, SCW1D43

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-RSCW-200	00810090089096



SCTR20

Oil Drum Spill Trailer Tray

Product Specification

Material	Polyethylene
Colour	Yellow / Black
Dimension	77x77x15cm
No of Drum	1
Sump Capacity	20 L
Loading Capacity	240 Kg

Packaging Information

1 Piece / Carton

Product SKU	Carton GTIN
BLSH-SCTR-020	00810090089102



Name of Chemicals	Oil Absorbent 	Universal Absorbent 	Chemical Absorbent 
Acetic Acid	-	-	Recommended
Acetone	-	Alternate Selection	Recommended
Acetonitrile	-	Alternate Selection	Recommended
Acrylonitrile	-	-	Recommended
Agricultural chemicals (Pesticides)	-	Alternate Selection	Recommended
Alcohols (Ethanol, Spirits)	-	-	Recommended
Ammonium Hydroxide	-	-	Recommended
Ammonium Hydroxide	-	-	Recommended
Benzene	-	Alternate Selection	Recommended
Butanol	-	-	Recommended
Butyl Alcohol	-	Alternate Selection	Recommended
Carbon Tetrachloride	-	-	Recommended
Chloroform	-	Alternate Selection	Recommended
Cooking Oil, Vegetable Oil	Recommended	-	-
Coolant / Heat Exchange Fluids	-	Recommended	Alternate Selection
Crude Oil	Recommended	Alternate Selection	-
Cyclohexane	-	Recommended	Alternate Selection
Dilute Acids	-	-	Recommended
Dilute Alkalis	-	Alternate Selection	Recommended
Ethyl Acetate	-	-	Recommended
Ethyl Alcohol	-	Alternate Selection	Recommended
Ethyl Ether	-	Recommended	Alternate Selection
Ethylbenzene	-	Recommended	Alternate Selection
Engine Oil / Motor Oil	Recommended	-	-
Ethylene Dichloride	-	-	Recommended
Formaldehyde	-	-	Recommended
Fluorine	-	Recommended	Alternate Selection
Fluorosulfonic Acid	-	-	Recommended
Formic Acid	-	-	Recommended
Gasoline	Recommended	Alternate Selection	Alternate Selection
General Oils	Recommended	-	-
Hexane	-	Recommended	Alternate Selection
Hydraulic Acid	-	-	Recommended
Hydrochloric Acid	-	-	Recommended
Hydrofluoric Acid	-	-	Recommended
Isopropyl Alcohol	-	Recommended	Recommended
Methanol	-	Alternate Selection	Recommended
Methyl Alcohol	-	Alternate Selection	Recommended
Methyl Ethyl Ketone	-	Recommended	Recommended
Methylene Chloride	-	Alternate Selection	Recommended
Nitric Acid	-	-	Recommended
Octane	-	Recommended	Alternate Selection
Paints	-	Recommended	Alternate Selection
Petrol, Dissel, Kerosene	Recommended	Alternate Selection	-
Phosphoric Acid	-	-	Recommended
Potash Solution (Potassium Carbonate)	-	-	Recommended
Potassium Hydroxide	-	-	Recommended
Sodium Acetate	-	Recommended	Alternate Selection
Sodium Hydroxide	-	-	Recommended
Sulfuric Acid	-	-	Recommended
Sulphurous Acid	-	-	Recommended
Toluene	-	Alternate Selection	Recommended
Transformer Oils, Other Oil-based Liquids	Recommended	-	-
Trichloroethylene	-	Alternate Selection	Recommended
Water	-	Recommended	Recommended
Xylene	-	Alternate Selection	Recommended
"Water-Miscible Oils (Hydraulic / Cutting Fluids)"	-	Recommended	Alternate Selection

ERGONOMICS SOLUTIONS



Ergonomics

Essential for Workplace Safety

Ergonomics, or the study of designing work environments and tasks to fit the capabilities and limitations of workers, plays a crucial role in ensuring workplace safety and enhancing overall productivity. By applying ergonomic principles, organizations can minimize the risk of injuries, reduce discomfort, and improve efficiency. Here's a comprehensive overview of how ergonomics contributes to workplace safety:

Key Ergonomic Principles

● Design for Comfort & Efficiency

Objective:

To create workspaces and tasks that enhance comfort and efficiency while reducing physical strain.

Implementation:

Adjustable Workstations: Design workstations with adjustable features to accommodate various body sizes and work styles. For example, height-adjustable desks allow employees to switch between sitting and standing.

Proper Tool Selection: Provide tools and equipment that are ergonomically designed to minimize strain. For example, ergonomic handles and grips reduce hand and wrist strain.

● Promote Proper Posture

Objective:

To encourage correct posture and reduce the risk of musculoskeletal disorders (MSDs).

Implementation:

Chair Design: Use chairs with adjustable lumbar support, seat height, and backrest tilt to support proper sitting posture.

Monitor Placement: Position computer monitors at eye level to reduce neck strain and encourage proper head alignment.

● Reduce Repetitive Strain & Overuse

Objective:

To minimize the risk of repetitive strain injuries overuse syndromes.

Implementation:

Task Rotation: Implement job rotation to vary tasks and reduce repetitive motions.

Breaks & Stretching: Encourage regular breaks and stretching exercises to alleviate muscle tension and prevent fatigue.

Ergonomic Solutions and Tools

● Anti-Fatigue Mats

Description:

Cushioned mats placed in work areas where employees stand for long periods.

Benefits:

- Reduce leg and lower back discomfort.
- Improve circulation and reduce fatigue.

● Lift Belts

Description:

Supportive belts worn around the lower back during lifting tasks.

Benefits:

- Provide additional back support.
- Encourage proper lifting techniques.

● Knee Pads

Description:

Protective gear worn to cushion the knees during kneeling tasks.

Benefits:

- Reduce pressure and discomfort on the knees.
- Enhance mobility and comfort.



Benefits of Ergonomic Workplace Design

● Reduced Injury Rates

Prevention: Ergonomic design helps prevent common workplace injuries such as back strains, carpal tunnel syndrome, and repetitive strain injuries.

Recovery: Reduces the severity of injuries and supports quicker recovery through comfortable and supportive work environments.

● Increased Productivity

Comfort: Comfortable employees are more focused and less distracted by pain or discomfort.

Efficiency: Ergonomic tools and setups enable workers to perform tasks more efficiently and with less effort.

● Improved Job Satisfaction

Well-being: A well-designed ergonomic environment contributes to overall job satisfaction and well-being.

Retention: Employees are more likely to stay with an organization that values their health and comfort.

● Enhanced Safety Compliance

Regulations: Adhering to ergonomic principles helps organizations meet occupational health and safety regulations.

Risk Management: Reduces the risk of workplace accidents and legal liabilities related to employee health.

Implementing Ergonomic Solutions

● Conduct Ergonomic Assessments

Evaluate Workstations: Assess current workstations, tasks, and tools to identify ergonomic risks and areas for improvement.

Seek Employee Input: Involve employees in the assessment process to gather feedback on their needs and experiences.

● Invest in Ergonomic Equipment

Upgrade Tools & Furniture: Invest in ergonomic tools, chairs, and desks that support proper posture and reduce strain.

Provide Training: Educate employees on proper ergonomic practices and the use of ergonomic equipment.

● Promote Ergonomic Practices

Encourage Regular Breaks: Implement policies that encourage frequent breaks and stretching exercises.

Monitor & Adjust: Continuously monitor the effectiveness of ergonomic solutions and make adjustments as needed.



AFM6191

ESD Anti Fatigue Mat made of PVC & EPDM Foam



Product Information

Material	PVC & EPDM Foam
Size	610x910mm / 610x450 / Customized size available
Thickness	18mm
Texture	Industrial Diamond Plate
Color	Black & Yellow
ESD Type	Surface 10e6-10e9 ohms
	Bottom 10e4-10e6 ohms

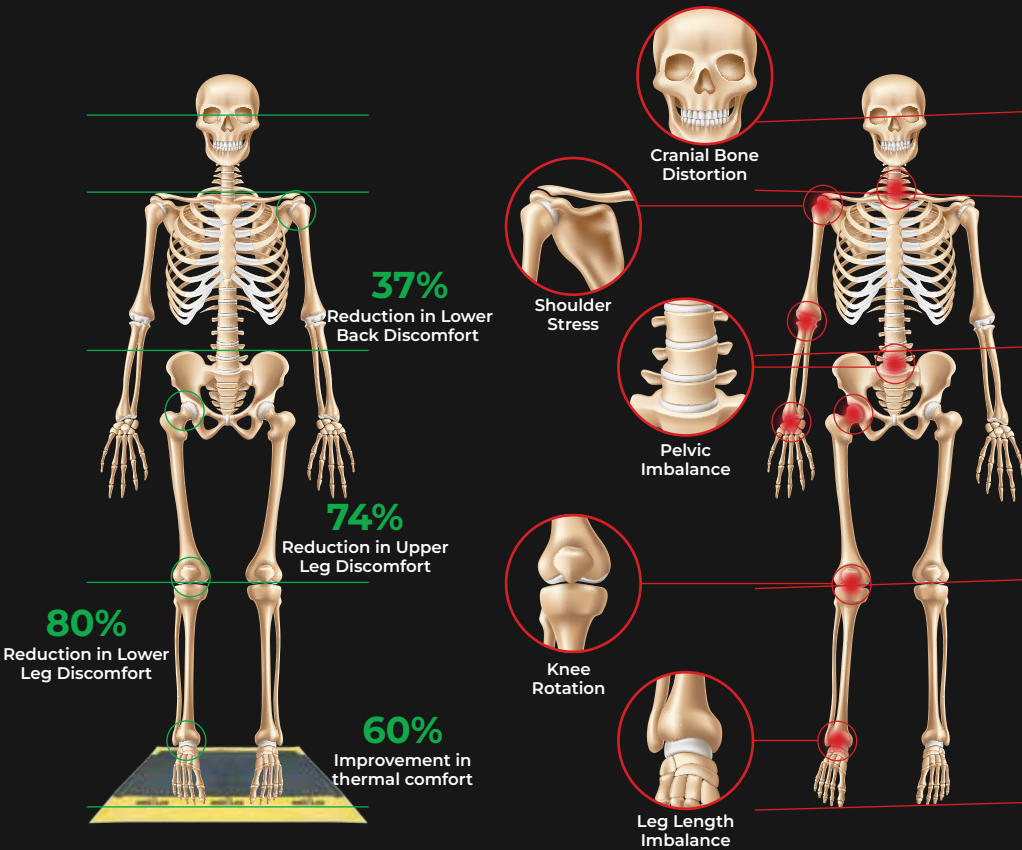
Packaging Information

10 Pieces / Non-woven Bag
100 Pieces / Wooden Pallet

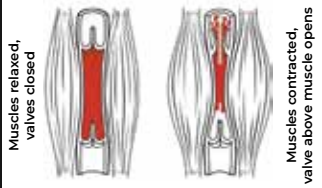
Product SKU	Inner pack UPC	Carton GTIN
BLSH-AFM-YBK-1	810148535575	00810148535582



THE BENEFITS OF ANTI-FATIGUE MATS



- BALANCED**
- Improves structural alignment and joint function
 - Improves muscular balance and prevents nerve impingement
 - Reduces uneven wear and tear on joints
 - Body weight evenly distributed
 - Efficient natural movement
 - Reduced pressure on organs
- IMBALANCED**
- Neck pain and headaches
 - Shoulder restrictions and pain
 - Arm and hand pain nerve entrapment
 - Bulging discs/back pain
 - Uneven pressure/knee pain
 - Uneven weight distribution
 - Foot and ankle pain



This blood pooling in the legs and the increased pressure on joints causes pain and discomfort, which can eventually result in a work-related musculoskeletal disorder if not diagnosed and treated where necessary.

Due to gravity's effect on our bodies because of our upright position, we are designed to be moving rather than standing still as when we are stationary, our muscles are required to tense to stop us from losing our balance. This causes greater fatigue too.

A study by Loughborough University found that just 90 minutes of continuous standing can cause an individual to feel uncomfortable, which may seem like a short amount of time to someone who spends their whole working day on their feet.

LB001

Back Lift Support Belt with Dual Adjustable Straps



Product Information

Product Type	Lift Support Belt
Material	Polyester
Color	Black

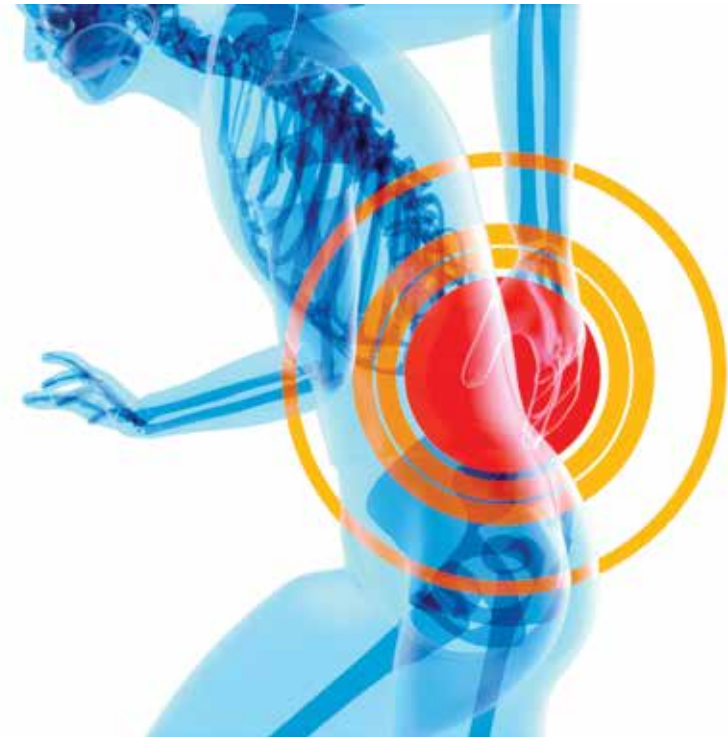
Packaging Information

1 Piece / Bag
25 Pieces / Carton

Product SKU	Size
BLSH-M-LB-BK-12	Medium
BLSH-L-LB-BK-12	Large
BLSH-XL-LB-BK-12	Extra Large



THE BENEFITS OF BACK LIFT SUPPORT BELT



1. Reduces Lower Back Strain
- Supports the lumbar spine and abdominal muscles.
 - Helps prevent overextension and muscle fatigue during lifting or bending.
2. Promotes Proper Posture
- Encourages correct spinal alignment.
 - Minimizes the risk of slouching or poor posture while working.
3. Prevents Workplace Injuries
- Ideal for jobs involving repetitive lifting or heavy labor.
 - Reduces the chance of strains, sprains, and disc injuries.
4. Provides Pain Relief
- Offers compression and warmth to ease lower back pain.
 - Helpful for individuals with existing back conditions like herniated discs or sciatica.
5. Enhances Lifting Confidence
- Boosts stability during heavy lifting.
 - Encourages safer, more controlled movements.
6. Adjustable & Comfortable
- Typically made from breathable, stretchable material.
 - Customizable fit with straps or Velcro for all-day comfort.

KPE01

Hard Shell Knee Pad with Adjustable Strap



Product Information

Product Type	Knee Pad
Material	PE cap, 600D polyester, EPE Foam, Hook&loop
Color	Black

Packaging Information

1 Pair / Polybag
25 Pairs / Carton

Product SKU
BLSH-PEKP-R

KPP01

Heavy Duty Knee Pad with EVA Foam, Gel & Adjustable Strap



Product Information

Product Type	Knee Pad
Material	PVC cap, 600D polyester, EVA Foam+GEL, RIVET
Color	Black

Packaging Information

1 Pair / Polybag
25 Pairs / Carton

Product SKU
BLSH-ELKP-BK



FallSafe™



For **Fall Protection** product information visit our
Website : www.bisonlife.in

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**For all your product availability
& distribution related queries**

info@bisonlife.com

Technical Queries
Ask the Expert



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