



Because Life is a Gift

CATALOGUE

6th Edition



Head Protection



Respiratory Protection



Protective Apparels



Spill Control Management



Industrial Safety



Eye Protection



Hearing Protection



Fall Protection



Emergency Equipment



Eye & Face Protection



Hand Protection



Protective Footwear



Safety Containment





Mr. Simon Quek Hong Kiat
Managing Director

*"Our One-Stop
Solution Service
will effectively
benefit our clients
and business
partners"*

VISION

To be Asia's most reputed comprehensive safety solution provider for the workplace and household

MISSION

To be an advocator and educator for a safe environment for every workplace and home, bringing fulfillment and enjoyment in life to everyone by safeguarding people's safety

CORE VALUE

A Heart for People's Lives
- Honest
- Earnest
- Achieving
- Responsible
- Team Player

Established in 1960, QSS Safety Products (S) Pte Ltd is a renowned safety products specialist and solution provider with its base in Singapore, manufacturing Personal Protective Equipment under the brand QUEBEE, Safeware and WalkMaster. QSS is also the key distributor for major brands of safety equipment such as 3M, Ansell, Dupont, Honeywell, Wayne Plastic, Scott GMI and many others.

QSS is an ISO 9001 GDPMDS and OHSAS 18000 certified companies and the proud winner of the Professional Enterprise Award (Prestige) and the Prestige brand award under the Heritage brand category.

QSS advocates "Work safely for a Happy Family and Fulfilling Life". With the enthusiasm and passion for life, QSS aspired to be a Green Cross Ambassador to contribute to hundreds and thousands of happy families and fulfilling life through cultivating personal safety, and a safe environment to work and live on.

QSS is committed to constantly invest in human resources to improve our staff professionalism and service quality, and innovate in product variety. Create more value for business partners for mutual prosperity.

Other Services:

Apart from PPE products and training, we also provide services, such as:

- Site survey
- Product training
- Product installation & equipment calibration
- Respiratory fit testing (SS548 requirements)
- Hazardous spill response training for ISO 14000 requirements

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PERSONAL PROTECTION

Head Protection



Eye Protection



Eye & Face Protection



Respiratory Protection



Hearing Protection



Hand Protection



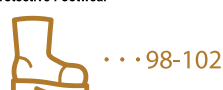
Protective Apparels



Fall Protection



Protective Footwear



ENVIRONMENTAL PROTECTION

Spill Control Management



Emergency Equipment



Safety Containment



Industrial Safety



OUR BRANDS

Quebee



3M



Ansell



TEMPEX

ENWARE
AUSTRALIA PTY. LIMITED



Honeywell

ALPHA
SOLWAY

ZETEX



Quebee
Tecasafe plus

OLDHAM
An industrial scientific company



SYSBEL



Selection of Safety Helmets / Bump Caps



Factors to be consider :

The helmet chosen should offer the desired protection and comfort and not create any additional safety problems

- Potential hazards anticipated
- The style of the helmet / cap
- The material of the helmet / cap
- The colour of the helmet / cap
- Comfort and fitness
- Adaptability of accessories
- Meet international / National standards



QB Safety Helmet QB-HM-AQM1

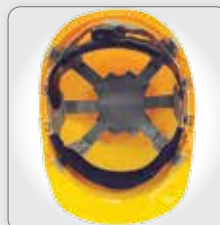


- A super lightweight, durable and impact resistance short peak safety helmet
- Made from high density polyethylene or ABS material
- Six point double nape stripe slip ratchet webbing suspension that gives excellent comfort and perfect impact protection
- Universal slot that is adaptable to most accessories
- Approved to CE EN 397



P9

Plastic suspension with double slip ratchet headband adjustment for AQM1



P12

QB-LR-P12-AQM1-RAT

Webbing suspension with wheel ratchet headband adjustment for AQM1



QB Safety Helmet QB-HM-AQM2

- A robust, durable and impact resistant short peak safety helmet
- Made from high density polyethylene material
- Excellent comfort and perfect impact protection with six point suspension
- Universal slot that is adaptable to most accessories
- Approved to CE EN397, SS98



P1

QB-LR-P1-AQM2-RAT

Webbing suspension with wheel ratchet headband adjustment for AQM2



P2

QB-LR-P2-AQM2-SLIP

Plastic suspension with slip ratchet headband adjustment for AQM2



P3

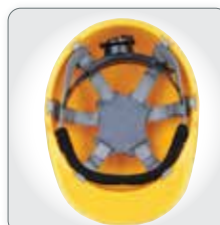
QB-LR-P3-AQM2-RAT

Plastic suspension with wheel ratchet headband adjustment for AQM2



QB Safety Helmet QB-HM-AQM3

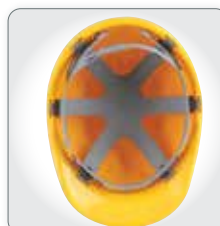
- An all time favourable design that are widely accepted at all level
- Lightweight, durable and impact resistant
- Made from high density polyethylene material
- Excellent comfort and perfect impact protection with six point suspension
- Approved to CE EN397, SS98



P7

QB-LR-P7-AQM3-RAT

Webbing suspension with wheel ratchet headband adjustment for AQM3



P8

QB-LR-P8-AQM3-SLIP

Plastic suspension with slip ratchet headband adjustment for AQM3

HEAD PROTECTION

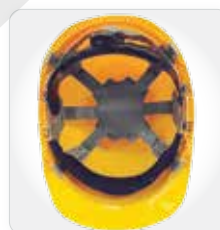


QB Safety Helmet
QB-HM-AQM6

- Short peak for easy surveying job
- Universal slot that is adaptable to most accessories
- Under peak grip patterns facilitates convenient and firm grips
- With ventilation
- Six point suspension
- Wheel ratchet or slip ratchet
- Approved to CE EN397



P9
Plastic suspension with double slip ratchet headband adjustment for AQM6

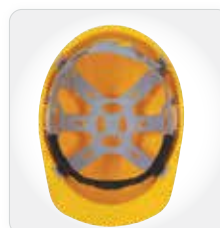


P12
QB-LR-P12-AQM8-RAT
Webbing suspension with wheel ratchet headband adjustment for AQM6

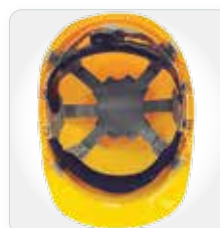


QB Safety Helmet
QB-HM-AQM8

- Product code: QB-HM-AQM8-WHITE
- Revolution design with comfort, performance and style
- Reduced peak for better vision while working at height
- Universal slot that is adaptable to most accessories
- Six point double nape stripe and wheel ratchet
- Made from high density polyethylene
- Approved to SS98, CE EN397



P9
Plastic suspension with double slip ratchet headband adjustment for AQM8



P12
QB-LR-P12-AQM8-RAT
Webbing suspension with wheel ratchet headband adjustment for AQM8

Helmet Accessories



P4
QB-AS-P4
Sweatband



P5
QB-AS-P5
Elastic chin strap with chin cup



Safeware
SW-NLCS-BSA
Nylon chin strap



Safeware
SW-PVCCS
PVC chin strap



Quebee Baseball Cap is a revolutionary step forward in head protection. The removable ergonomic protective shell composed of ABS polyvac provides maximum safety and comfort using stabilizers, anti shock foam cushioning, ventilation points and an anti sweatband. The light weight machine washable nylon shell with large side ventilation panels provides optimum comfort, with an adjustable Velcro strap for easy adjustment.

- Provide a variety of colors for different workplace
- Lightweight at approximately 170 grams
- External fabric securely fitted to shell by velcro
- Come with reflective tape for better visibility
- Available in black, blue, grey and yellow fluorescent
- Approved to CE EN812/A1



QB-BC-SC01SS-BK
Black



QB-BC-SC02SS-NB
Navy Blue



QB-BC-SC03SS-GE
Grey



QB-BC-SC05SS-YF
Yellow Fluorescent



QB-BC-SC02SV-NB
Navy Blue - short peak

Safeware Baseball Cap SW-SM-913

* Logo embroidery available as requested

- Sports working cap
- Insert with high quality plastic shell
- Provide good protection with additional soft pad for shock absorbing
- Approved to CE EN812:1997
- Available color: Blue



Safeware HDPE Bump Cap SW-SM-903

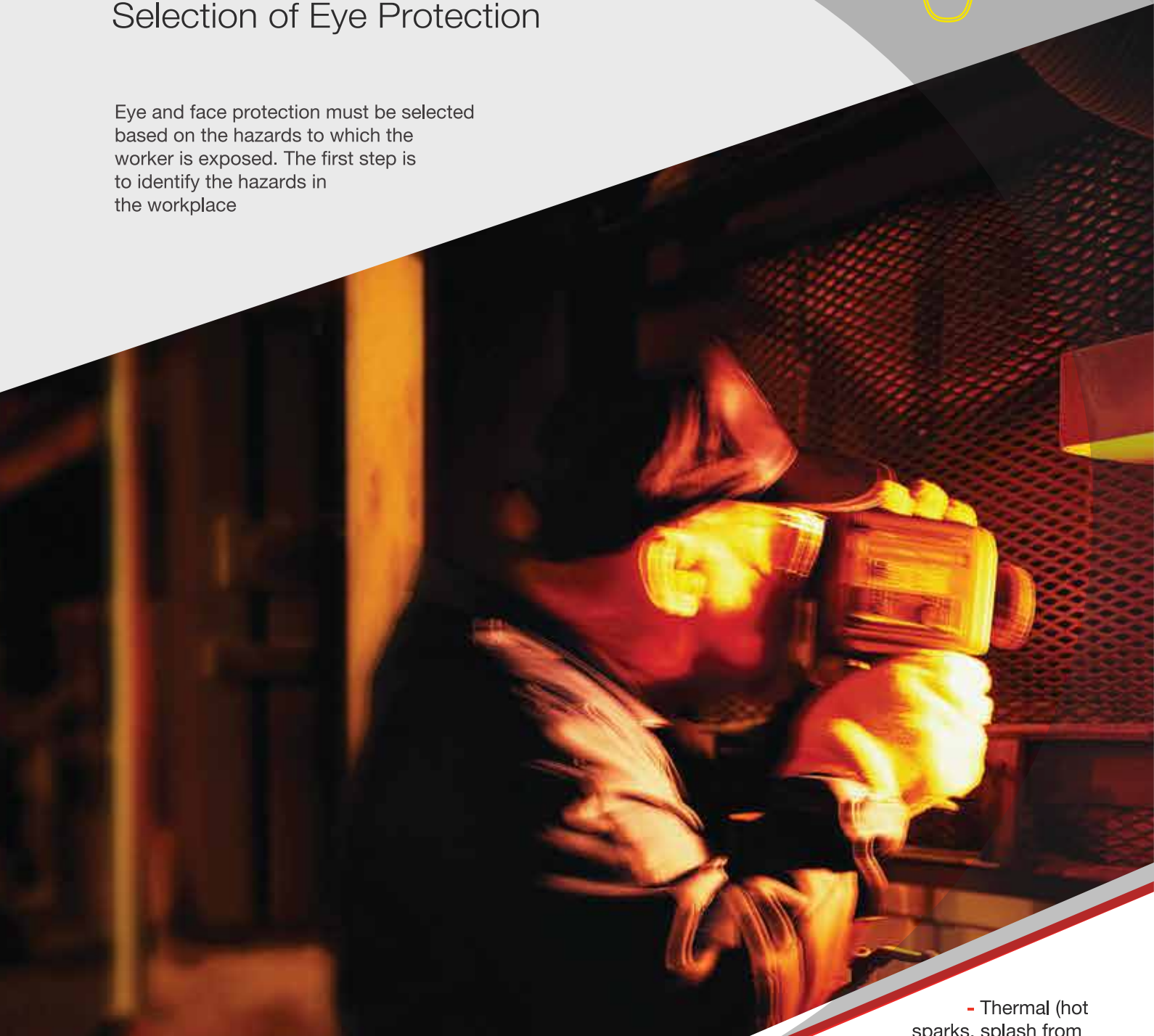
- Light weight working cap for general workplace
- HDPE cap material
- Approved to CE EN812:1997
- Available Colors: Blue, Yellow, White





Selection of Eye Protection

Eye and face protection must be selected based on the hazards to which the worker is exposed. The first step is to identify the hazards in the workplace



- Thermal (hot sparks, splash from molten metal, high temperature exposure)
- Electrical (short-circuit, electric arc)

Protective eyewear selected based on the above hazards can have the following lens features:

- Polycarbonate material for impact resistance
- Radiation absorptive such as UV, IR, visible lights, blue lights etc
- Anti-fog coated
- Hard coated for scratch resistant
- Optical class 1

Approved to one or more of the following standards:

- ANSI Z87.1 1989 (USA)
- EN166 (EUROPEAN)
- SS473 (SINGAPORE)
- JIS (JAPAN)
- AS/NZ 1337 (AUSTRALIA / NEW ZEALAND)
- CSA Z94.3 1988 (CANADA)



QB Safety Goggle QB-GH5100-CLR-AF

- Soft rubber frame provides comfort for long time wearing
- Flexible housing fits most prescription eyewear (over-spec)
- Universal fit nose bridge conforms to facial contours to ensure a comfortable fit
- Fully adjustable headband fits most users
- Indirect venting system offers ventilation and dust prevention simultaneously
- Anti-fog polycarbonate lens filters out more than 99.9% of harmful UV radiation
- Meet ANSI Z87.1, CE EN166 standards



QB Chemical Goggle QB-SG5903-CLR

- Excellent field of view for improved safety and wearer confidence
- Impact resistance against high speed particles at extremes temperature
- Indirect ventilation design helps provide protection against liquids, dust, gases & vapors
- General designs and flexible nose bridge for improved comfort
- Broad, fully adjustable headbands for optimum fit and reliable protection
- Protection against UV radiation
- Anti-fog coating help prevent fogging and enhance safety
- Can be worn over most prescription spectacles
- Optical class 1 Quality
- Meet ANSI Z87.1, CE EN166 standards



QB AirGuard QB-HY-YZ-6

- Lightweight goggle with direct ventilation
- Soft, flexible vinyl frame
- Polycarbonate lens
- Ideal protection against dust and impact
- Meet ANSI Z87.1, CE EN166 standards



QB ChemGuard Pro QB-HY-YZ-2-AF

- Lightweight goggle with indirect ventilation
- Soft, flexible vinyl frame
- Anti-fog, polycarbonate lens
- Ideal protection against dust, impact and chemical splash
- Meet ANSI Z87.1, CE EN166 standards



3M™ Fahrenheit Goggles 40654 Polycarbonate lens / 40659 Acetate lens

- Optical class 1 lens suitable for prolonged use
- Design provides excellent coverage and good field of vision
- Offers excellent protection against UV radiation
- Provides excellent protection against large dust particles and liquid droplets
- Lens coating provide excellent scratch resistance. An anti-fogging coating is applied to the majority of the range
- Designed to be worn with prescription eyewear
- Clear, replaceable lens films provide additional protection against abrasion
- Meet ANSI Z87.1, CE EN166 standards



EYE PROTECTION



QB Intruder 1570A

- Wraparound lens provides full front & side eye protection
- Injected or painted frame with cutting-edge sporty design
- Soft nosepiece and earpiece for comfortable fit
- Wire core temples and metal nose bridge for customized fitting
- Polycarbonate lens absorbs 99.9% harmful UV radiation and resists high impact
- Optical Class 1 quality lens
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-1570A-HC-DB-MIR



QB-1570A-HC-CLR-AF



QB-1570A-HC-IO

QB Phantom 5900

- Incredibly light, resilient & durable protective eyewear for all day wear
- Economical pricing
- Snug-fitting wrap around lens provides perfect impact protection around the eyes
- Close-fitting unitary front with dual 9.75 base curvatures offers wide and unobstructed vision
- Fashionable design resembles sunglasses, suitable for both men and women
- Standard lens- high impact resistant; scratch resistant and blocks 99.9% of harmful UV radiation
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-5900-HC-SMK



QB-5900-HC-CLR



QB-5900-HC-IO

QB Hornet FL280

- Unique rim-less design with incredible light weight
- Wraparound lens with integral side-shield Lightweight, optical class one; polycarbonate lens resists the high impact
- Angle adjustable temple moulded with soft pad
- Soft nosepiece for comfortable fit
- Suitable for different work environments for all day wear
- Scratch-resistant, polycarbonate lens provide 99.9% of UV protection
- Meets ANSI Z87.1-2003 CE EN166 standards



QB-FL280-HC-SMK



QB-FL280-HC-CLR



QB-FL280-HC-IO

QB Viggen 1910-K

- One-piece lens, with dual 9.75 base curvature, snugly fits all kinds of faces and provides full eye-protection against high impact at the same time
- Optical class 1 lens offers users the clearest and the most panoramic view without obstruction
- Anti-fog lens (Clear lens only)
- Modern co-material temple design with soft temple tips



QB-1910-K-HC-CLR-AF



QB-1910-K-HC-IO

- Suitable for various working environments
- Polycarbonate lens filters out 99.9% of harmful UV light

- Meet ANSI Z87.1, AS/NZS 1337.1 and CE EN166 standards



QB Hunter SG514

- Fashionable design resembles sunglasses, suitable for both men and women
- Close-fitting, unitary front with dual 9.5 base curved lens offers wide and unobstructed vision
- Durable polycarbonate and rubber insert temples
- Asian cushioned nosepiece fits a wide range of bridge sizes and protects against slippage
- Scratch-resistant, hard-coated 100% polycarbonate lenses filter out more than 99.9% of harmful UV radiation
- Optical Class 1 quality lens
- Meets ANSI Z87.1-2003



QB-SG514-SMK



QB-SG514-CLR



QB-SG514-DB-MIR



QB-SG514-IO

QB Zoom 7724

- Fashionable design, suitable for both men and women
- Close-fitting, unitary front with dual 9.5 base curved lens offers wide and unobstructed vision
- Universal bridge fits almost all face contours
- 100% polycarbonate lenses filter out more than 99.9% of harmful UV radiation
- Meet ANZI Z87.1-2003



QB-SS-7724-SMK



QB-SS-7724-CLR



QB-SS-7724-HC-IO

QB Vulcan 9210

- Full wraparound design for maximum field vision and peripheral protection
- Universal fit nose bridge
- Incredibly light, resilient and durable protective eyewear for all day wear
- Single lens spectacle available with various tint/mirror finish
- Soft nose pad provides superior comfort
- Scratch-resistant, hard coated polycarbonate lens filters out more than 99.9% of harmful UV light
- Anti-fog lens (Clear lens only)
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-9210-HC-AMB



QB-9210-HC-CLR-AF



QB-9210-HC-SMK

EYE PROTECTION



QB Falcon S200A

- Fashionable design resembles sunglasses, suitable for both men and women
- Close-fitting, unitary front with dual 9.5 base curved lens offers wide and unobstructed vision



QB-S200-A-GRN-IR8-AF



QB-S200-A-GRN-IR5



QB-S200-A-L/ORG



QB-S200-A-IO



QB-S200-A-CLR



QB-S200-A-L/BRN



QB-S200-A-L/GRY



QB-S200-A-DB-MIR

- Durable dual injected polycarbonate and rubber temples
- Asian cushioned soft nosepiece fits a wide range of bridge sizes and protects against slippage
- Scratch-resistant, hard-coated 100% polycarbonate lenses filter out more than 99.9% of Harmful UV radiation
- Optical Class 1 quality lens
- Meets ANSI Z87.1-2003, CE EN 166 standards

QB Python S21

- Fashionable design resembles sunglasses, suitable for both men and women
- Close-fitting, offers wide and unobstructed vision
- Durable dual injected polycarbonate temples
- Asian cushioned soft nosepiece fits a wide range of bridge sizes and protects against slippage
- Scratch-resistant, hard-coated 100% polycarbonate lenses filter out more than 99.9% of harmful UV radiation
- Anti-Fog Lens (For clear lens only)
- Meets ANSI Z87.1:2003, CE EN166 standards



QB-S21-HC-DB-MIR



QB-S21-HC-CLR-AF



QB-S21-HC-SMK



QB-S21-HC-IO

QB Skyraider 2048

- Big sized lens; fit over most prescription frames
- Full front, side and top protection.
- Available with uncoated, hard coated and anti fog coated lenses
- Polycarbonate lens absorbs 99.9% harmful UV radiation and resists high impact
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-2048-CLR



QB-2048-SMK



QB Phoenix 2101

- 8 base curved lenses provide excellent coverage and maximum field of vision, without the distraction of seams or traditional type side shield
- Semi-frame with direct ventilation system help reducing possible fogging
- Slim temple design with 4 position temple length adjustment provides great fitting for users
- Sleeve in soft nose pieces provides snug fitting
- High impact resistant anti-scratch lens
- Lenses provide 99.9% of UV radiation
- Anti-fog lens (Clear lens only)
- Meet ANSI Z87.1-2003, CE EN166 standards



QB-2101-HC-SMK



QB-2101-HC-CLR-AF



QB-2101-HC-IO

QB Tornado 1350

- Full wraparound design for maximum field vision and peripheral protection
- Soft finger type nosepiece
- Ratchet angle-adjustable temples provide users personalized fit
- Single lens spectacle available with various tint/ mirror finish
- Polycarbonate lens absorbs 99.9% harmful UV radiation and resists high impact
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-1350-HC-CLR-AF



QB-1350-HC-IO

QB Raven Visitor 5064

- Stylish and compact overspec accommodates most prescription frames
- 5-curved design can be assembled with prescription lenses according to users' need
- Full front, side and top protection with high impact resistance
- Soft earpiece provides a secure and comfortable fit
- Scratch-resistant, hard coated poly-carbonate lens filters out more than 99.9% of harmful UV light
- Meets ANSI Z87.1 - 2003, CE EN166 standards



QB-5064-HC-SMK-AF



QB-5064-HC-CLR-AF

QB Harrier 5400

- Ratchet angle adjustable temple
- Length adjustable temple
- Extra large flat (base 2) lens fits over prescription frames
- Optical Class 1 Quality Lens
- Filters out 99.9% of all harmful UV light
- Full side and brow protection
- Meets ANSI Z87.1-2003, CE EN166 standards



QB-5400-TA10-HC-CLR



QB Raider SG511

- Length adjustable temple
- Polycarbonate Lens Absorbs 99.9% harmful UV radiation and resists high velocity impact
- Meets ANSI Z87.1-2003, CE EN166-F standards



QB-SG511-1-DB-SMK



QB-SG511-1-DB-CLR



QB-SG511-2-YBY-SMK



QB-SG511-2-YBY-CLR



QB-SG511-3-RWB-CLR

Spectacle Accessories



Spectacles String QB-A7



Spectacles Pouch QB-SSC-061



Spectacles Bag QB-D401



83735-00000

3M™ Super-clear™
Disposable Protective
Eyewear Lens Cleaning
Station (1520DM)

Features:

- Contains 16 oz. pump and bottle of cleaning fluid
- Contains 1500 sheets of lens cleaning paper
- Ready to hang



83738-00000

3M™ Super-clear™
Protective Eyewear Lens
Cleaning Tissue Refill
(851TM)

Features:

- Heavy duty, soft, non-abrasive tissue
- Cleans lenses safely without scratching
- Use to refill super-clear lens cleaning station

Selection of Eye & Face Protection



A face shield is a device used to protect wearer's entire face (or part of it), in addition to the eyes, from impact hazard such as flying objects, road debris, chemical splashes (in industry), or potentially infectious fluid (in medical). On many construction sites you will find workers using face shields to protect their eyes and face from flying debris or sparks. Many tools that involve cutting and working with metal

recommend the use of a face shield. Examples would be workers that are using welding equipment or metal cutting saws.

- Face shields are required where facial skin protection is needed. They can only be used in conjunction with eye protection. The face shield is not a substitute for the safety glasses or goggles. Face shields shall be used only in conjunction with spectacles and/or goggles
- Shaded eye/face protection is required for radiant energy sources from arc and gas welding, soldering and brazing, laser, ultraviolet, and infrared. Facial injuries can be life-changing, and that's why face protection is vital in many industries. Sparks, flying debris, splashing chemicals and even dust from grinding and woodworking applications all pose a risk. From simple eye protection to face shields that cover the entire face, your workers need to stay safe on the job.



3M H8A - Headgear with Ratchet 3M-82501-00000

- Ratchet headgear for use with 3M Faceshields (sold separately)
- High strength thermoplastic crown provides impact resistance
- Adjustable ratchet suspension with five position crown strap offers a customized fit
- Developed for use in metalworking, woodworking, utilities and many other industries
- Meets the high impact requirements of ANSI Z87.1-2003



3M H10 Headgear with Crown Extender / Protection 3M-82516-00000

- Adjustable ratchet suspension
- Crown extender for added coverage
- Five position crown strap
- Headgear gives users a wide choice of faceshield materials, sizes, shapes and tints for task specific requirements
- Meets the requirements of ANSI Z87.1-2003



3M HCP8 Ratchet Headgear with 3M™ Clear Chin Protector 3M-82521-10000

- Uses WP98 window (82543-0000), sold separately
- Five position crown strap
- Requires protective eyewear, sold separately
- Helps provide head protection to workers in metal working, utilities, wood working, and many other industries
- Meets the requirements of ANSI Z87.1-2003



3M WP96 Clear Polycarbonate Faceshield 3M-82701-00000

- Molded polycarbonate faceshield provides impact protection
- Mounts quickly to 3M headgear (sold separately)
- Installation to headgear requires no tools, snaps or cams
- Developed for use in metalworking, utilities and many other industries
- Meets the high impact requirements of ANSI Z87.1-2003

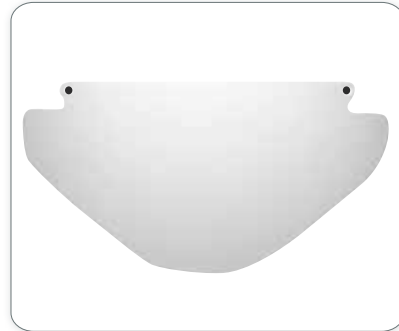




H8A - Headgear with Ratchet 3M-82501-00000

3M WP96X Wide Clear Polycarbonate Faceshield 3M-82582-00000

- Flat stock
- Larger faceshield size helps provide additional coverage area
- 3M™ Easy-Change™ Faceshields mount quickly to 3M headgear
- Meets the high impact requirements of ANSI Z87.1-2003



Visagom 3500 AL-V3733500

- Lift-front helmet attachment for face screens
- Without metal parts
- Special version for electricians
- Available with face shields in size: 345 x 200mm (fog-free)
- Meets CE EN166F
- Face shield & Helmet sold separately



Visorama 3800 AL-V3733800

- Headgear with lift-front part
- Headband adjustable by wheel
- Available with face shields in size: 345 x 200mm (fog-free)
- Meets CE EN166F
- Face shield sold separately



FC48 Clear Visor SW-FC48-C

- Clear Polycarbonate with Aluminum Bound
- Size: 8" X 15 1/2" X 1.0mm
- For A3 & A4 Visor Holder
- For SW176 Headgear
- Headgear sold separately

**Picture for illustration only*

SW-A4 Visor Holder SW-A4

- All aluminum visor bracket, assemble with safety helmet and visor



3M™ Speedglas™ Welding Helmets and Welding Filters

- Best***
- Better***
- Good***
- Not Recommended***



Technical specification	3M™ Speedglas™ Welding Helmets 9100, 9100 Air and 9100-QR				3M™ Speedglas™ Welding Helmet 9100 MP	
3M™ Speedglas™ Welding Filter	9100XXi	9100XX	9100X	9100V	9100XXi	9100XX
MMAW (Electrode)						
MIG/MAG						
TIG (>20A)						
TIG (1A-20A)						
Plasma (welding and cutting)						
Risk for hidden arc						
Tack welding						
Grinding (welding filter)						
Grinding (clear visor)	N/A					
Viewing area (welding filter)	73x107 mm		54x107 mm	45x93 mm	73x107 mm	
Battery lifetime	1 800 hours	2 000 hours	2 500 hours	2 800 hours	1 800 hours	2 000 hours
Solar cell	No		Yes		No	
Safety Helmet options	Yes (non air version)				Yes	
Classification	1 / 1 / 1 / 2				1 / 1 / 1 / 2	
Dark state	Shade 5, 8, 9–13				Shade 5, 8, 9–13	
Light state	Shade 3				Shade 3	
UV/IR Protection	Shade 13 (permanent)				Shade 13 (permanent)	
Auto ON	Yes	No			Yes	No
Switching time, light -dark	0,1 ms (+23° C)				0,1 ms (+23° C)	
Memory mode	Yes	No			No	
Delay (switching time, dark-light)	40–800 ms	40–1 300 ms			40–800 ms	40–1 300 ms
SideWindows option	Yes				Yes	
Exhaust vents	Yes (non air version)				N/A	
Number of sensors (arc detection)	3				3	
Approvals Eye and Face protection Welding helmet Welding filter Protection plates Visor plate	EN175:B EN 379 EN166:BT* N/A				EN175:B, EN 166 B EN 379 EN166:BT* EN166:BT*	
Approval Head protection Safety helmet	440 Vac (3M Safety Helmet H-701)				EN 397 440 Vac, LD	
Approval Respiratory Protection / NPF** Adflo Powered Air Respirator Versaflo V-500 Supplied Air Regulator	with Speedglas welding helmet 9100 Air EN 12941 (TH2) / NPF 50 EN 14594 (3B)/ NPF 200				EN12941 (TH3) / NPF 500 EN14594 (3B)/ NPF 200 N/A	

* According to the European Standards the mechanical strength (for this product) is classified as B; resistance to high speed particles at medium energy impact (120 m/s). The letter T indicates resistance to high speed particle was conducted at extremes of temperatures (-5° to +55°C).

** The nominal protection factor based on laboratory-measured performance data according to European Standards. The protection factor is assigned by local authorities in each European country therefore be different for each country.

*** The ratings (good - better - best) above refer to the products listed in this chart and should be seen as general recommendations based on differences in product comfort features and configuration when using these selected Speedglas welding helmet series.



that the test
ntry and can
figuration options



3M™ Speedglas™ Welding Helmets – sorted by features

	3M™ Speedglas™ Welding Helmet 9100							
	3M™ Speedglas™ Welding Helmet 9100-Air							
	3M™ Speedglas™ Welding Helmet 9100-QR							
	3M™ Speedglas™ Welding Helmet 9100-FX							
	3M™ Speedglas™ Welding Helmet 9100 FX-Air							
	3M™ Speedglas™ Welding Helmet 9100 FX (with hard hat)							
	3M™ Speedglas™ Welding Helmet 9100 MP							
	3M™ Speedglas™ Welding Helmet SL							
	3M™ Speedglas™ Welding Helmet 100							
	3M™ Speedglas™ Welding Helmet 100-QR							



Eye & face
protection



Side windows



Hearing
protection**



Exhaust vents



Respiratory
system



Graphics option



Head protection



Auto-on



Flip-up



Selection of Respiratory Protection



- The physical configuration of the jobsite
- Worker medical condition
- Worker comfort
- Chemical and its physical properties
- Toxicity and concentration of the hazardous material
- Oxygen Deficiency
- Extreme Temperature
- Other selection factors such as nature and extent of the hazard, working rate, mobility, work requirements and conditions, as well as the limitations and characteristics of the available respirators

Types of Respirators:

- Particulate respirators (Disposable)
- Gas and vapor respirators (Half and Full face piece)
- Powered air-purifying respirator (PAPR)
- Air supplied respirator (Airline System)
- Self-contained breathing apparatus (SCBA)



QB N95 Particulate Respirator

QB-MR-910I-N95 / QB-MR-910IS-N95

- Comfortable to wear and easy to use
- Lightweight and therefore promotes greater workers' comfort and longer wearing time
- Provides an economical way of protection
- Two sizes available to ensure facial fit
- Adjustable nose clip to provide a custom fit and secure seal
- Reduces the potential for eyewear fogging
- Provides a 95% filter efficiency when subjected to a 0.3µm particle challenge
- Collapse resistant shell construction to withstands hot and humid conditions
- State-of-the-art filter media provides low resistant filtration
- Approved to NIOSH 42 CFR Part 84 Standards



QB N95 Particulate Respirator

QB-910F-N95

- No metallic components
- Filters have low breathing resistance for more comfortable wear
- Designed with ultimate soft inner layer that provides the most intimate touch to the face
- Adjustable nose clip to provide a custom fit and secure seal
- Adjustable looping head straps provides a convenient way for donning and doffing. The head strap loop design allows the mask to be hung around the neck when not in use
- Reduces the potential for eyewear fogging
- Provides 95% filter efficiency when subjected to a 3µm particle challenge
- Soft pre-shaped nose cushions ensures excellent fit for various facial sizes
- Approved to NIOSH 42 CFR Part 84 Standards



QB 3-Dimensional Flat Fold Face Mask

QB-NV-SQ-3K (Kids) / QB-NV-SQ-3N (Adults)

- Three-dimensional design
- Design customised to allow better fitting and create space for easy breathing
- 3-layer filter system increases ease of breathing
- Comfortable and long lasting flexible ear loop
- Ear loop material does not cause skin irritation and itchiness
- Air sealed packing enhances hygiene and performance



QB Transparent Mask

QB-DB-TS02-W

The Innovative Sanitary Mask for safety and hygiene

- Visible smiling face expression
- Hygienic
- Pleasant fashionable appearance
- Increase organization image
- Eliminate unpleasant bad breath
- Reduce food contamination
- Washable & reusable
- No breathing resistant





8812, P1



- Comfort Respirator - Respiratory protection against fine Dusts
- 3M Cool Flow valve reduces heat build up to offer comfortable protection, particularly in hot and humid conditions
- Reliable, effective protection against fine particulates
- Durable collapse resistant inner shell
- Excellent fit over a wide range of face sizes provided by convex shape, nose clip and twin-strap design
- Comfortable, light weight off-the-face design
- Standard: EN149:2001 FFP1
- Approval: CE Marked
- Maximum use level: Assigned Protection
- Factor: 4 x OEL (Nominal Protection Factor 4 x OEL)

8822, P2



- P2 rated filter to AS/NZS1716
- Lightweight construction promotes greater comfort and contributes to increased wear time
- The cupped shape, twin strap design and adjustable aluminium nose clip provides a custom fit with fewer pressure points and a secure face seal over a range of face sizes
- Patented one-way valve offers easy exhalation and cooler, drier comfort
- For use against mechanically generated particulates and thermally generated fumes and smokes
- All filter design provides economical protection with no cleaning required or spare parts to maintain

9300 Series Respirators

The advanced 3 panel design of the 3M 9300 series respirators means they are easier to breathe through and not prone to collapse. Being foldable they offer you more convenience than traditional cup shaped respirators. Its features include a headband material which keeps a near constant tension, reducing strap pressure and ensuring a secure fit to the face for a range of head sizes. The 3M™Cool Flow™



9310, FFP1

- EN149, FFP1, FFP2 and FFP3 protection
- Soft outer fabric, adjustable nose clip
- Soft, sweat absorbent foam above the nose
- Even-tensioned head straps which eliminate strap pressure
- Unique and highly efficient Cool Flow valves to reduce heat build up
- Low profile design to guarantee good field of vision
- Easier to talk through

9312, FFP1



9320, FFP2



9322, FFP2



9332, FFP3

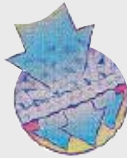




Unique Technologies



Cool Flow™ Exhalation Valve
Patented one-way valve for easy exhalation and cool, dry comfort



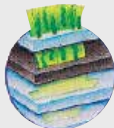
Advance Electret Media
Patented filter media with electrostatically charged micro fibers help make breathing easier and cooler



Welding web
Unique filter media incorporating protective layers designed to be flame resistant as demonstrated per ASTM D2859-96 (Not a substitute for a faceshield)



M-noseclip
Patented noseclip adjusts easily for fewer pressure points and greater comfort



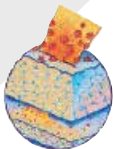
Carbon filter material
Carbon filter media provides relief against odors, vapors and other gaseous contaminants for greater wearer comfort. For nuisance level relief only



Adjustable buckle straps
A single tug helps provide a comfortable, secure fit



Faceseal
Soft and secure, conforms closely to face additional comfort



Cake-resistant filter media
Patented filter media with specifically designed filter layers for welding applications provide longer respirator life and easier breathing



P-series filter
Patented Advanced Electret Media, appropriate for prolonged use in both oil and non-oil containing environments

¹3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower

Comfort Unvalved Respirators



3M-9210

9210 (N95)

A breakthrough in comfort and convenience. This three-panel respirator with innovative design helps provide comfortable, reliable worker protection against non-oil based particles



3M-8210

8210 (N95)

Features Advanced Electret Media (AEM), welded strap attachment, soft nose foam and adjustable noseclip to help provide a custom fit and secure seal



3M-9105 / regular
3M-9105S / small

9105 / 9105S (N95)

Innovative flat fold respirator designed for comfort and convenience of storage. Economical design is suited for the light duty users



3M-8110S

8110s (N95)

Designed for people with smaller faces. It helps provide worker protection against certain non-oil based particles. It is comfortable and easy to use which helps promote greater worker acceptance and increased wear time



Comfort Unvalved Respirators ◀◀◀◀



3M-8511

8511 (N95)

Is uniquely designed to help provide protection against certain non-oil based particles. It is ideally suited for work settings that involve heat, humidity, or long periods of wear



3M-8211

8211 (N95)

Offers all the great features of the 3M™ Particulate Respirator 8211, plus a comfortable foam face seal. It is uniquely designed to help provide protection against certain non-oil based particles.



3M-9211

9211 (N95)

This three-panel respirator with innovative design is ideally suited for work settings that involve heat, humidity, or long periods of wear



Comfort Plus - 100 Class Respirators ◀◀◀◀



3M-8233

8233 (N100)

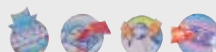
Is well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator. It provides a minimum filter efficiency of 99.97% against non-oil based particles



3M-8293

8293 (P100)

Is well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator. It provides a minimum filter efficiency of 99.97% against oil base particles



Welding & Metal Pouring ◀◀◀◀



3M-8214

8214 (N95)

Is designed for applications such as welding, soldering and other operations where metal fumes may be present including those with ozone* and nuisance level organic vapors**



3M-8514

8514 (N95)

Is designed for applications such as welding, soldering and other operations where metal fumes are present including those with ozone* and nuisance level organic vapors**



3M-8515

8515 (N95)

An economical option for welders featuring the 3M™ Cool Flow™ Exhalation Valve, adjustable M-noseclip, and braided headband to help provide a custom fit and secure seal



3M-8212

8212 (N95)

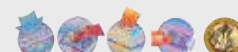
Features the 3M™ Cool Flow™ Exhalation Valve, cake-resistant filter media, a comfortable foam face seal and fully adjustable straps



3M-8512

8512 (N95)

Features the 3M™ Cool Flow™ Exhalation Valve, cake-resistant filter media, nose foam and fully adjustable nose clip and straps



*3M recommended for ozone protection up to 10X OSHA PEL. Not NIOSH approved ozone

**3M recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower

RESPIRATORY PROTECTION



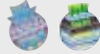
Unvalved Specialty Respirators ◀◀◀◀



3M-8247

8247 (R95)

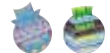
Is designed to help provide comfortable protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors*, such as solvents, degreasers and resins



3M-8246

8246 (R95)

Helps provide protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases* such as sulphur dioxide, hydrogen fluoride, and/or chlorine



Valved Specialty Respirators ◀◀◀◀



3M-8577

8577 (P95)

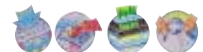
Is designed to help provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of organic vapors*, such as solvents, degreasers and resins



3M-8516

8516 (N95)

Is designed for the aluminium industry. It helps provide protection against certain non-oil based particles including those present with nuisance levels of acid gases* such as sulphur dioxide, hydrogen fluoride, and/or chlorine



3M-8271

8271 (P95)

Combines P-series versatility with exceptional comfort and fit. It is an excellent choice for those who have work environments that may contain oil aerosols



3M-8576

8576 (P95)

Is designed to provide comfortable, reliable worker protection against certain oil and non-oil based particles including those present with nuisance levels of acid gases*, such as sulphur dioxide, hydrogen fluoride, and/or chlorine



Fluid resistant respirators ◀◀◀◀



3M-1860 / regular
3M-1860S / small

1860 (N95) / 1860S (N95)

Is an all-in-one fluid-resistant N95 respirator and surgical mask, designed to provide health care workers the reliable protection they need. It features an adjustable nose clip to help provide a custom fit and secure seal. Available in two sizes



3M-1870

1870 (N95)

A breakthrough in comfort and convenience. This three-panel respirator with innovative design has fluid-resistant properties and is an all-in-one N95 respirator and Surgical Mask



*3M™ recommended for relief against nuisance level acid gas or organic vapors. Nuisance levels are less than OSHA PEL or applicable government occupational exposure limits, whichever is lower.

RESPIRATORY PROTECTION



7500 Series Half Facepiece Reusable Respirator

Easy breathing, comfort and durability

Adjustable Head Cradle

- Allows wearer to adjust for optimum fit and comfort

Cool Flow™ Valve

- Valve design helps make breathing easier
- Helps reduce heat and moisture buildup for cool, dry comfort

Unique Exhalation Valve Cover

- Directs exhaled breath and moisture downward
- Smooth surface allows for quick and easy cleaning
- Helps reduce debris from depositing in valve area

Soft Seal Design

- Advanced silicone material provides a softer feel on the face
- Unique adjustment design helps reduce tension and pressure points on the face for unsurpassed comfort

Dual-Mode Head Harness

- Adjusts easily so user has the option to wear the respirator in either traditional or drop-down mode



Part No.	Description	Product Code
7501	Dual cartridge half facepiece, small	3M-7501
7502	Dual cartridge half facepiece, medium	3M-7502
7503	Dual cartridge half facepiece, large	3M-7503

6000 Series Half Facepiece Reusable Respirator

Compatible and convenient respiratory protection

- Facepiece is made from soft, lightweight material
- Available with a standard or drop-down head harness option. Drop-down model allows wearers to lower the respirator without removing hard hat or faceshield
- Head harness assembly and spare parts are available



Part No.	Description	Product Code
6100	Dual cartridge half facepiece, small	3M-6100
6200	Dual cartridge half facepiece, medium	3M-6200
6300	Dual cartridge half facepiece, large	3M-6300

7700 Series Single Half Facepiece - Reusable Respirator

Compact and durability

- Lightweight silicon facepiece
- Allows for wider field of view the respirator
- Quarter-turn cartridges can be attached and detached without removing



Part No.	Description	Product Code
7701k	Single cartridge half facepiece, small	3M-7701
7702k	Single cartridge half facepiece, medium	3M-7702
7703k	Single cartridge half facepiece, large	3M-7703

RESPIRATORY PROTECTION



FF-400 Series Ultimate FX Full Facepiece Reusable Respirator *Comfortable, durable protection for demanding, X-treme conditions*

Large lens featuring Scotchgard™ protector

- Paint and stain-resistant lens-3M™ exclusive Scotchgard™ coating causes some paints and stains to bead up on the surface so they can be wiped off easily
- Helps lens stay clearer during some spray applications
- Provide a wide field of view



Passive speaking diaphragm

- Optimally positioned for clearer and easier communications

Bonded silicone gaskets

- Eliminates loose gaskets that can be lost

Easy to use

- Respirator attachments twist on and off easily for quick assembly and disassembly

Durable, long-lasting head harness

- Features a six-strap configuration for a secure fit
- Harness straps pulled over one million times in development durability testing

Comfort cradle

- Positions the respirator more comfortably on the head

Soft, silicon nose cup and face seal

- Engineered for maximum durability, comfort and resilience
- Three sizes help the respirator fit a broad range of face shapes and sizes

Cool Flow™ Valve

- Allows for easier breathing
- Reduces heat and moisture buildup for cool, dry comfort



Part No.	Description	Product Code
FF-401	Dual cartridge full facepiece, small	3M-FF-401
FF-402	Dual cartridge full facepiece, medium	3M-FF-402
FF-403	Dual cartridge full facepiece, large	3M-FF-403

6000 Series Full Facepiece Reusable Respirator

Reliable, convenient and compatible protection

- Unique center adapter directs exhaled breath and moisture downward, and helps reduce debris from depositing in the valve. Smooth surface allows for quick and easy cleaning
- Large lens provides wide field of view and excellent visibility
- 3M™ Cool Flow™ valve helps provide cool, dry comfort
- Meets requirements of ANSI Z87.1-2003 for high impact (Z87+)
- Lightweight, well balanced design with silicone face seal for enhanced comfort and durability
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes



Part No.	Description	Product Code
6700	Dual cartridge full facepiece, small	3M-6700
6800	Dual cartridge full facepiece, medium	3M-6800
6900	Dual cartridge full facepiece, large	3M-6900

7800S Series Full Facepiece Reusable Respirator

Designed for durability and protection

- Silicone facepiece enhances fit and improves durability
- Double-flange face seal and six adjustable straps help provide a secure fit
- Can be used with a passive or electronic clip-on welding lens
- Available in air purifying respirator (APR), supplied air and powered air purifying respirator (PAPR) modes



Part No.	Description	Product Code
7800S	Dual cartridge full facepiece, small	3M-7800S-S
7800S	Dual cartridge full facepiece, medium	3M-7800S-M
7800S	Dual cartridge full facepiece, large	3M-7800S-L



2000 Series Filters



- Hydrogen fluoride and nuisance level acid gas relief* ∞
- Nuisance level organic vapor and acid gas relief* \dagger
- Nuisance level acid gas relief*
- Nuisance level organic vapor relief* \dagger

*Nuisance level: below OSHA/DOSH PEL

∞ For HF, use fullface respirator with 2076HF filters for protection up to 10x OEL

\dagger For ozone, use 6000 series respirator with 2078 or 2097 filters recommended by 3M up to 10x OEL

6000 Series Cartridges



- Certain organic vapors
- Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide
- Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide and hydrogen sulfide
- Formaldehyde and certain vapors
- Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide ammonia/ methylamine, formaldehyde or hydrogen fluoride

7700 Series Cartridges, filters and Retainer



- Certain organic vapors
- Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only)

Filters Adapters Retainers





3M™ Supplied Air* Respirators

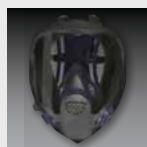
Facepieces



7800S-S**
7800S-M**
7800S-L**
Full Facepiece



6700 (S) 07138
6800 (M) 07139
6900 (L) 07140
Full Facepiece



FF-401 (S) 89418
FF-402 (M) 89421
FF-403 (L) 89424
Full Facepiece



6700DIN (S)
6800DIN (M)
6900DIN (L)
Full Facepiece



6501 (S)
6502 (M)
6503 (L)
Half Facepiece



6100 (S) 07024
6200 (M) 07025
6300 (L) 07026
Half Facepiece



7501 (S)
7502 (M)
7503 (L)
Half-Facepiece

Standard Kits

Combination Kits

Adapter Kits



Back-Mounted
Adapter Kits
SA-2000 (High Pressure)
SA-2000LP (Low Pressure)



Front-Mounted
Adapter Kits
SA-1000 (High Pressure)
SA-1000LP (Low Pressure)



Combination Back-
Mounted Adapter Kits
SA-2100 (High Pressure)
SA-2100LP (Low Pressure)

Supplied Air Hose



W-9435
3/8" High
Pressure Hose
(25, 50, or 100 ft.)



W-2929
3/8" High
Pressure Hose
(25, 50, or 100 ft.)



W-3020
1/2" Low
Pressure Hose
(25, 50, or 100 ft.)

Air Purification Panels



256-02-00***
(50 cfm) with CO
Filtration and Monitor



256-02-01***
(100 cfm) with
CO Monitor



W-2806
(50 cfm) without
CO Monitor
07006



Note: W-2808***
CO Monitor Retrofit
Kit Available
37027

Note: Headgear, breathing tube, air control valve, and compressed air supply hose are required parts in a NIOSH-approved system. Any NIOSH certification appearing on 3M components is strictly limited to use in an approved air system and only in full accordance with the specifications and limitations under said approval. NIOSH certifies complete assemblies only, not sub-assemblies.

It is the employer's responsibility to ensure that the compressed air used with any supplied air system meets the requirements for at least Grade-D breathing air per the Compressed Gas Association Commodity Specification G-7.1 in the U.S. as specified in the Occupational Safety and Health (OSHA) Respiratory Protection standard 1910.134(i)(1)(ii). In Canada, refer to CSA Standard Z180.1 table for the quality of compressed breathing air.

**Clip-on 3M™ Welding Shield also available.

***The use of a calibration kit is also required, see part numbers 529-04-48 (Large) or part number 529-04-49 (Small)

RESPIRATORY PROTECTION



Integrated Suspension Head Covers

Premium Maintainable Hoods



3M-S-133L-UK

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433L-UK

- The 3M™ Versaflo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533L-UK

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655-UK

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

Breathing Tubes



3M-BT-20S-UK
Small / Medium

Design for use with S-series headtops



3M-BT-20L-UK Medium
Large

Design for use with S-series headtops

Air Control Devices



3M-V-100 Vortex™
Vortex Cooling Assembly

- Designed to cool all incoming air up to 10 celsius and allows for airflow to be adjustable
- Requires up to 20 cfm at 60-90 psi depending on hose length



3M-V-200 Vortemp™
Vortemp Heating Assembly

- Designed to warm all incoming air up to 10 celsius and allows for airflow to be adjustable
- Requires up to 20 cfm at 60-90 psi depending on hose length



3M-V-300
Air Regulating Valve Assembly

- Designed to regulate airflow and allows airflow to be adjustable
- Requires up to 15 cfm at 25-55 psi depending on hose length



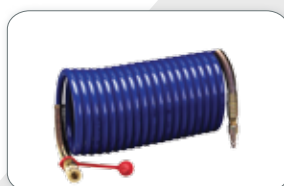
3M-V-400
Low Pressure Connector Assembly

- Designed for use with low pressure pumps and W-3020
- Requires up to 15 cfm at 4-15 psi depending on hose length

Pressure Hose



3M-W-9435-100
3/8" High Pressure Hose
(25, 50, OR 100ft)



3M-W-2929
3/8" High Pressure Hose
(25, 50, OR 100ft)



3M-W-3020
1/2" Low Pressure Hose
(25, 50, OR 100ft)

Air Purification Panels



3M-256-02-00
Portable Air Purification Panel

- Comes with CO filtration and monitor
- 50 cfm panel with 4 outlets
- Intrinsically safe (In battery mode)



3M-256-02-04 /
3M-256-02-05
Portable Air Purification Panel

- Comes with CO monitor
- 50 cfm panel with 2 outlets
- Intrinsically safe (In battery mode)
- Can be wall-mounted (256-02-04)



3M-256-02-01
Portable Air Purification Panel

- Comes with CO monitor
- 100 cfm panel with 8 outlets
- Intrinsically safe (In battery mode)



3M-W-2806
Portable Air Purification Panel

- Designed to filter and regulate plant air

RESPIRATORY PROTECTION



Versaflo™ Powered Air Turbo

The all-new, lightweight 3M™ Versaflo™ TR-300 Powered Air Respirator is the key to an easy-to-use, versatile, respirator system for environments with hazardous particles.

- Protection from particles and some nuisance level*** gases and vapours
- Slim, lightweight, balance design
- Controlled flow, at nominal 190 l/min
- Easy to adjust and maintain
- Audible and visual low airflow and low battery alarms
- Battery charge indicator
- A window on the turbo allows instant identification of the installed filter
- Outer surfaces are easy to clean
- IP53 rating. Suitable for use in a decontamination shower



Technical Specifications

Approvals Respiratory protection*	EN12941 TH2/TH3
Filters	Particle Particle + Nuisance level organic vapour*** Particle + Nuisance level acid gas filter (and Hydrogen fluoride, 10 x threshold limit value)***
Airflow Manufacturer's minimum design flow (MMDF) Nominal Airflow	170 l/min 190 l/min
Weight (including high capacity battery, standard belt and particle filter)	1 095 g
Battery Operating hours**	Li ion 5-6 hrs (economy battery) 10-12 hrs (high capacity battery) Less than 3hrs (economy battery) Less than 3.5hrs (high capacity battery)
Recharging time	
Belts selection	1) Standard webbing 2) Coated, easy-clean 3) Heavy-duty leather
Temperature range Operation Storage	-10°C to + 55°C -30°C to + 50°C

Versaflo™ TR-302E/TR-302UK Turbo Unit

The TR-302E turbo unit comes with a filter cover and airflow indicator only.

Versaflo™ TR-315E/TR-315UK Starter Kit

This 3M™ Versaflo™ TR-315E starter kit includes TR-300 turbo unit, particulate filter, pre-filter, standard belt, high capacity battery pack, battery charger kit, self-adjusting breathing tube and airflow indicator

Integrated Suspension Head Covers

Premium Maintainable Hoods



3M-S-133

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433

- The 3M™ Versaflo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

BT-Series breathing tubes

All BT-Series breathing tubes feature the QRS (Quick Release Swivel) connection for maximum comfort and ease of use



3M-BT-20S-UK/
3M-BT-20L-UK
Standard duty breathing tube



3M-BT-30-UK
Length adjusting breathing tube



3M-BT-40-UK
Heavy duty breathing tube

RESPIRATORY PROTECTION



Jupiter™ Powered Air Turbo

The Jupiter Powered Air Purifying Respirator is designed to deal with dust, particles, fumes, gases and vapours produced in the workplace, which can be injurious to the lungs. The Jupiter Turbo contains the motor and battery and is mounted on a sturdy decontamination belt.

- Low profile modular 3M™ Jupiter™ Powered Air Purifying
- Respirator for use with Quick Release Swivel (QRS) headtops
- Choice of 8 hour or 4 hour I.S NiMH battery
- Intelligent Charger
- Complete with decontamination belt
- Adjustable electronic flow control up to 230 litres/minute with visual and audible low airflow and low battery warnings
- Filter cover prevents damage to or sparks entering the filter body and allows light shower decontamination
- Smooth shape allows easy cleaning
- The Jupiter system can be ordered with your choice of 3M Headtops
- Certified I.S. to EN50020 EEX iB IIB T3 IP63 using I.S. pouch & battery



Filter & Cartridges

- P3 Filters (Particulates)
- A2P3 Cartridge (OV / Particulates)
- K1P3 Cartridge (AM / Particulates)
- A1B1E1P3 Cartridge (OV / Inorganic / AG / Particulates)
- A2B1E1K1P3 Cartridge (OV / Inorganic / AG/AM / Particulates)



3M™ Jupiter Battery

8 hour 007-00-64P



Technical Specifications

Approvals	
Respiratory protection*	EN12941 TH2/TH3
Filters	
Particle filter	P
Combined gas/ particle filter	A2P, ABE1P, K1P, A2BEK1P
Airflow	
Maximum Airflow	
Manufacturer's Minimum Design Flow (MMDF)	230 l/min 150 l/min
Weight (including 8hr battery, belt and particle filter)	1 471 g
Battery	
Operating hours**	NiMH 4 hrs (economy battery) 4 hrs (IS battery)** 8 hrs (High capacity battery)
Recharging time	Approx. 6 hrs
Belt	Decontaminable
Temperature range	
Operation	-5°C to + 40°C
Storage	-10°C to + 50°C

* For further information, please refer to the headtop information or contact 3M

** Can be used in potentially explosive atmospheres when used with specific intrinsically safe accessories

Integrated Suspension Head Covers

Premium Maintainable Hoods



3M-S-133

- Designed to provide head and face coverage for general purpose
- Available in blue



3M-S-433

- The 3M™ Versafo™ S-433L Hood is approved for use with certain 3M™ Powered Air Purifying and Supplied Air Respirator Systems.



3M-S-533

- Designed to provide head and face coverage for general purpose
- More durable with soft, quiet, low-linting fabric that drapes comfortably over the wearer



3M-S-655

- Designed for greater comfort with adjustable airflow
- Provides wider field of vision
- Replaceable hoods for better cost efficiency

BT-Series breathing tubes

All BT-Series breathing tubes feature the QRS (Quick Release Swivel) connection for maximum comfort and ease of use



3M-BT-20S/3M-BT-20L
Standard duty breathing tube



3M-BT-30
Length adjusting breathing tube



3M-BT-40
Heavy duty breathing tube



3M

Versaflo™

Powered Air Purifying Respirator

TR-600



Versaflo™ Components

Headtops



Filters



Breathing Tubes



Batteries



Belts



Accessories



3M™ Versaflo™ S-Series Hoods and Headcovers 3M™ Versaflo™ M-Series Faceshields, Hard Hats and Helmets

S-Series Integrated Suspension Headcovers M-100 Series Faceshields

S-Series Integrated Suspension Hoods M-300 Series Hard Hats

S-Series Premium Suspension Hoods M-400 Series Helmets

Filters/Cartridges	Description
TR-6320N	3M™ Versaflo™ Acid Gas/HE Cartridge
TR-6350N	3M™ Versaflo™ Formaldehyde/HE Cartridge
TR-6360N	3M™ Versaflo™ Ammonia/Methylamine/HE Cartridge
TR-6510N	3M™ Versaflo™ Organic Vapor/HE Cartridge
TR-6530N	3M™ Versaflo™ Organic Vapor/Acid Gas/HE Cartridge
TR-6590N	3M™ Versaflo™ Multi-Gas/HE Cartridge
TR-6710N	3M™ Versaflo™ High Efficiency Filter
TR-6820N	3M™ Versaflo™ HE and Nuisance OV/AG Filter

Breathing Tubes	Description
BT-20L-US	Breathing Tube
BT-30-US	Length Adjusting Breathing Tube
BT-40-UK	Heavy Duty Breathing Tube

Batteries	Chargers
TR-630 Standard Battery	TR-641N Single Station Battery Charger Kit
TR-632 High Capacity Batteries	TR-644N 4-Station Battery Charger Kit

Belts	Belt Extenders
TR-626 High Durability Belt	TR-626X High Durability Belt Extender
TR-627 Easy Clean Belt	TR-627X Easy Clean Belt Extender

Accessories	
TR-6600 Prefilter	BPK-01 Backpack
TR-662 Spark Arrestor	TR-655 Backpack Adaptor
TR-653 Cleaning and Storage Plugs	TR-329 Suspenders



T8000 SCBA HW-SCBA-EN1868527

- *** The complete SCBA rigorously passed continuous breathing tests 1.2 million times and provides high reliability
- ** The operating practice and working circumstances of users in Asia are taken into complete consideration in the rigorous development and research by simple design and well-planned layout of the product
- * The whole SCBA only weight 10.4 kg (Including 4.0 kg gas cylinder). Its light weight design meets easy mobility and long working time requirements

- Certified EN137-2006
- Passed 1.2 million continuous breathing tests, provides high reliability and stability
- Light weighted, total weight only 10.4kg (Including 3.8kg cylinder), suitable for long time wearing
- High technology reducer design, simple and stable, easy to maintain
- High efficiency rescue outlet provides high air flow for rescue purpose
- Built in High Pressure hose with exposure hole outside, ensures user safety
- Chest whistle provides over 90dB alarm
- Flexible Banjo connector provides more flexibility when wearing the demand valve
- Optional Survivair 20/20 plus mask for high visibility and wide vision

PANO Fullface Respirator

- Made from EPDM Rubber (Ethylene propylene diene Monomer)
- Specially designed for Asian people
- Panoramic field of vision
- Speech diagram
- Good anti-fog performance



SIGMA 2 TYPE 2 SELF CONTAINED BREATHING APPARATUS



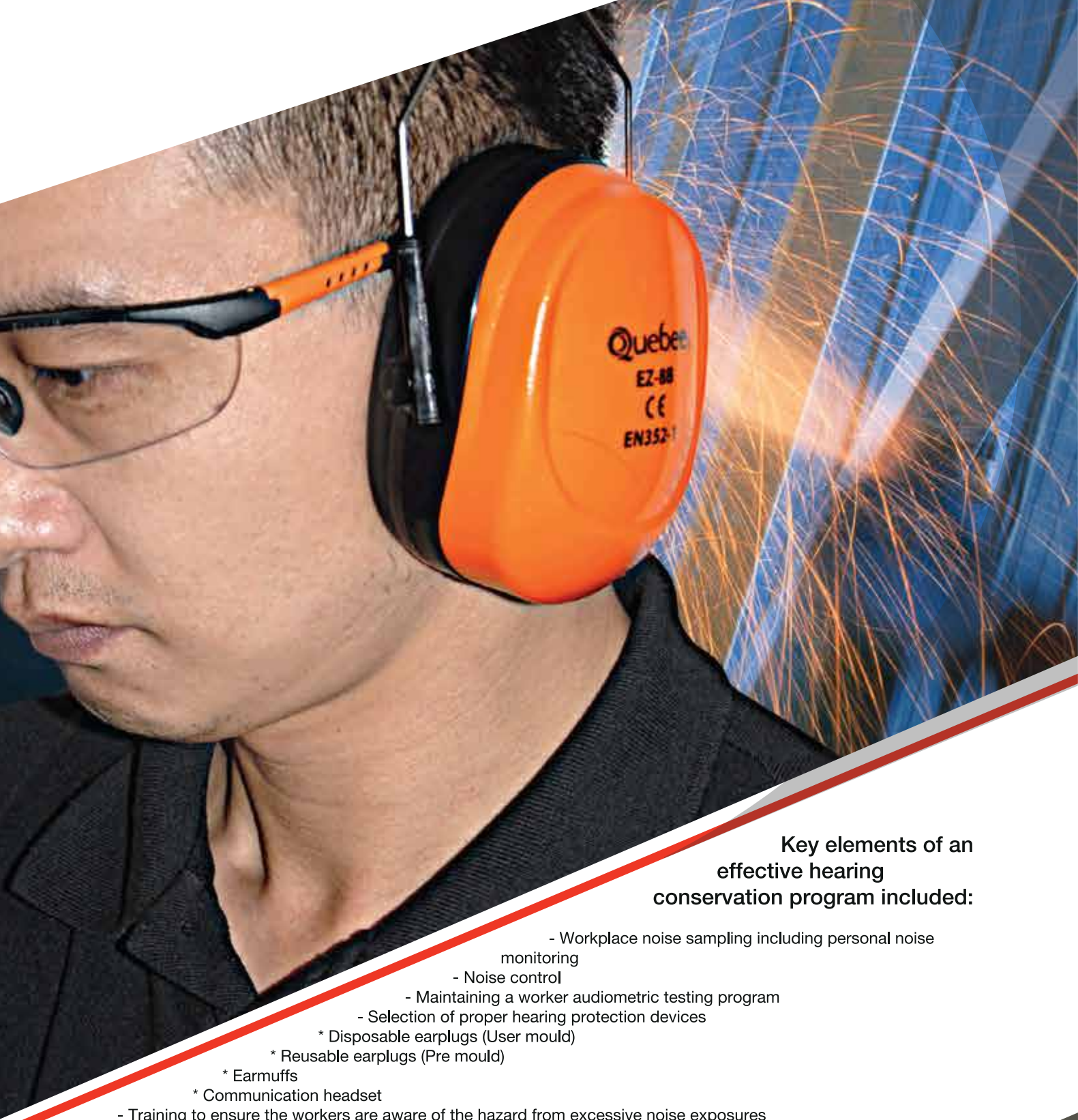
- Proven high performance pneumatic system Compact first breath activated demand valve with bypass
- Ergonomically designed lightweight backplate and type 2 harness
- Kevlar blend flame retardant webbing with Kevlar cylinder band
- Wide choice of facemasks from the Vision 3, Promask PP and Panaseal ranges
- Corrosion resistant Nickel plated components
- Simple operation for users All components are user serviceable, low cost and easy to maintain
- Will accept wide range of 200 and 300 bar cylinders
- Approved to the MED as a Type 2 set



Indication of too noisy at your workplace



It is recommended that all worker exposures to noise should be controlled below a level equivalent to 85 dB for eight hours to minimize occupational noise induced hearing loss. NIOSH recommends a 3 dB exchange rate so that every increase by 3 dB doubles the amount of the noise and halves the recommended amount exposure time.



Key elements of an effective hearing conservation program included:

- Workplace noise sampling including personal noise monitoring
- Noise control
- Maintaining a worker audiometric testing program
- Selection of proper hearing protection devices
 - * Disposable earplugs (User mould)
 - * Reusable earplugs (Pre mould)
 - * Earmuffs
 - * Communication headset
- Training to ensure the workers are aware of the hazard from excessive noise exposures
- Data records regarding monitoring and noise sampling



3M™ Reusable Earplugs 3M-1290 - Braided cord / 3M-1291 - Braided cord with storage case/
3M-1292 - Plastic cord / 3M-1293 - Plastic cord with storage case/

- 3-flange design fits securely in the ear
- Finger grip stem for easy insertion and to help keep ear plugs clean
- Elastic material does not contain silicone, so earplugs may be used in sensitive work environments, such as automotive painting
- One size fits most ear canals
- NRR 25dB



3M™ Reusable Earplugs 3M-1270 - Corded with polybag / 3M-1271 - Corded with carry case /
3M-1271P - Corded with carry case

- New softer formulation provides added comfort
- New finger grip design makes insertion easier
- Multi-flanged plugs fit securely into ear canal
- Soft, elastic material conforms to a wide range of ear sizes comfortably
- No need to roll plugs down before inserting
Ideal for dusty, dirty situations
- Can be washed and reused many times
- Soft, cloth cord lays flat (1270 & 1271 only)
- Includes storage case which keeps plugs clean and protected (1271 only)
- NRR 24dB



3M™ E-A-R™ TaperFit™ 2 Disposable Earplugs
3M-312-1223 - Corded

- Soft, roll-down foam earplugs expand to fit the ear canal and provide a low pressure, comfortable seal
- Non-irritating, dermatologically safe polyurethane foam
- NRR 32dB



3M™ E-A-R™ UltraFit™ Corded Reusable Earplugs 3M-340-4002- In carrying case /
3M-340-4004- In poly bag earplug

- Patented, premolded, triple-flange design inserts easily
- No rolling or sizing needed to get a comfortable, protective fit
- Hypoallergenic polymer is washable and reusable
- Carrying case keeps plugs clean and accessible for re-use
- NRR 25dB



HEARING PROTECTION



3M™ E-A-Rsoft™ Disposable Yellow Neon

3M-310-1250 - Uncorded pillow pack

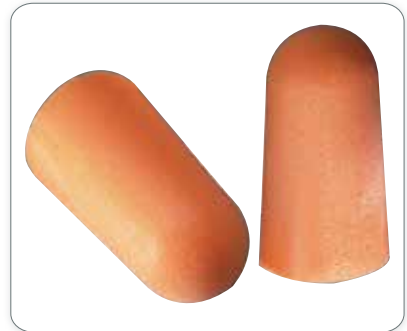
- Shaped, self-adjusting foam provides a comfortable, low pressure seal
- Non-irritating, dermatologically safe foam
- Soft foam plugs for increased wearer comfort
- NRR 33dB



3M™ Disposable Foam Earplugs

3M-1110 - Corded / 3M-1100 - Uncorded

- Tapered shape to fit the ear canal comfortably
- Soft foam seals the ear comfortably
- Smooth, dirt resistant surface for hygiene
- Comfortable for a wide range of ear sizes
- Hypo-allergenic material
- Bright orange color for visibility
- Can be combined with ear muffs for additional protection
- Can be used with other personal protection equipment
- NRR 29dB
- Soft cloth cord for additional convenience and to help prevent loss of earplugs (1110 only)



3M™ Classic™ Disposable Earplugs

3M-310-1001 - Uncorded

- Slow recovery foam allows user to wear the earplug easily
- Bright yellow color allows a quick visual compliance check
- Dermatologically safe foam in non-irritating, nonflammable, and moisture-resistant
- NRR 29dB



3M™ E-A-Rsoft™ SuperFit™ Disposable Earplugs

3M-312-1256 - Uncorded

- Patented "fitting ring" provides a guideline for proper insertion and quick visual compliance check
- Smooth, tapered shape provides a comfortable fit
- Non-irritating, dermatologically safe foam
- NRR 33dB



3M™ E-A-Rsoft™ Disposable Yellow Neon Blasts

3M-311-1252 - Corded / 3M-312-1252 - Uncorded

- Shaped, self-adjusting foam provides a comfortable, low-pressure seal
- Non-irritating, dermatologically safe foam
- Soft foam plugs for increased wearer comfort
- NRR 33dB





3M™ One Touch™ Pro Earplug Dispenser 3M-391-0000

- Accurately dispenses one earplug at a time
- Dispenses earplug directly into hand
- Durable ABS plastic for tough environments
- Free-standing or wall-mounted
- Shields earplugs from wind and rain
- Mounting holes designed to fit a variety of competitive dispensers
- Earplugs sold separately



3M™ E-A-R™ Classic™ SuperFit™ 30 One Touch™ Refill Hearing Conservation

3M-391-1002

- Patented “Fitting ring” provides a guideline for proper insertion and a quick visual compliance check. Packaged in convenient refill bottles to fit your one touch dispenser (#391-1000)
- Conforms to the shape of the ear canal to help create a comfortable, snug noise barrier
- Slow-recovery earplug foam is flame-resistant and moisture resistant
- NRR 30dB



3M™ E-A-Rsoft™ Yellow Neons™ One Touch™ Refill Uncorded Earplugs, Hearing Conservation

3M-391-1004

- Refill container for One Touch™ dispenser. One gentle turn delivers uncorded foam earplugs
- No packaging waste with each pair
- NRR 33dB



3M™ E-A-Rsoft™ SuperFit™ One Touch™ Refill Hearing Conservation

3M-391-1254

- The soft, pliable foam on this uncorded foam earplug features an orange fitting ring that provides a guideline for proper fitting
- Earplugs are easy to roll down and insert, then expand within the ear canal for a comfortable, secure fit
- Refill container for One Touch™ dispenser. One gentle turn delivers uncorded foam earplugs
- Regular size fits most ear canals
- NRR 33 dB



**The NRR may overestimate the hearing protection provided during typical use. 3M recommends reducing the NRR by 50% for estimating the amount of noise reduction provided.



audioff

Earmuff

Quebee Audioff earmuff is made from sound-attenuating material and soft ear cushion that provide a soft and firm fitting. The ABS hard outer cups are filled with foam and soft cushions around the rims that seal to the wearers head around the ear. The cups are connected and held together by a stainless steel spring band. Design comes with standard headband, foldable headband and helmet attachment.

QB Audioff Foldable Earmuff QB-HY-EZ-8A

- Foldable earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-1
- SNR 25dB
- H=30dB, M=22dB, L=15dB



QB Audioff Headband Earmuff QB-HY-EZ-8B

- Headband earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-1
- SNR 28dB
- H=31dB, M=26dB, L=18dB



QB Audioff Helmet Attachable Earmuff QB-HY-EZ-8C

- Helmet attachable earmuff with soft foam-filled cushions
- Lightweight ear cups
- Provides a good seal for protection against harmful noises
- Comply to CE EN352-3
- SNR 31dB
- H=36dB, M=28dB, L=21dB





3M™ Peltor™ Optime™ 95 Over-the-Head Earmuffs

3M-H6A/V

- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Lightweight with liquid/foam filled earmuff cushions
- NRR 21dB



3M™ Peltor™ Optime™ 95 Behind-the-Head Earmuffs

3M-H6B/V

- Multi- position designs, available in headband, neckband, helmet-attachable and folding models
- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid/foam filled earmuff cushions
- NRR 21dB



3M™ Peltor™ Optime™ 95 Over-the-Head Folding Earmuffs

3M-H6F/V

- Folding-cups fold up into the headband for compact storage
- Stainless steel construction resists bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 21dB



3M™ Peltor™ Optime™ 95 Cap-Mount Earmuffs

33M-H6P3E/V

- Universal mounting attachment fits most hard hats
- Stainless steel construction resist bending and warping
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 21dB





3M™ Peltor™ Optime™ 101 Over-the-Head Earmuffs

3M-H7A

- For TWA noise exposure up to 101 dBA
- Stainless steel headband distributes weight for low-pressure fit
- Ear cup pivot points that tilt for optimum comfort and efficiency
- Liquid / foam filled earmuff cushions
- NRR 27dB



3M™ Peltor™ Optime™ 101 Behind-the-Head Earmuffs

3M-H7B

- Neckband style
- Excellent Attenuation at low and high frequencies
- Enables safe working environment for longer periods of time, up to 101dBA
- Two low mounting points provide great comfort
- #1 Selling earmuff in the world
- NRR 26dB



3M™ Peltor™ Optime™ 101 Over-the-Head Folding Earmuffs

3M-H7F

- Foldable
- Excellent attenuation at low and high frequencies
- Two low mounting points provide great comfort
- NRR 26dB



3M™ Peltor™ Optime™ 101 Cap-Mount Earmuffs

3M-H7P3E

- Helmet attachment
- Cap-mounted design allows for easy use with most hard hats
- Liquid / foam filled ear cushions
- NRR 24dB



HEARING PROTECTION



3M™ Peltor™ PTL™ Earmuffs Headband Headset

3M-H7A-PTL

- Offers attenuation with the push of the button
- Allows for long term use under exacting conditions
- Ear cup button for listening mode
- Listen-through capability with the pass-through sound limited to 87dB
- Auto-switches to full protection after 30 seconds or when button is pressed again
- Ear cups with liquid and foam-filled comfort cushions for long wear and optimum seal
- NRR 26dB



3M™ Peltor™ PTL™ Earmuff, Hard Hat Mount Headset

3M-H7P3E-PTL

- Ear cup button for listening mode
- Listen-through capability with the pass-through sound limited to 87dB
- Auto-switches to full protection after 30 seconds or when button is pressed again
- Ear cups with liquid and foam filled comfort cushions for long wear and optimum seal
- Possible industries include: heavy equipment operators, airports, manufacturing, construction, agricultural, racing, oil rigs, petroleum refineries
- NRR 25dB



3M™ Peltor™ Optime™ 98 Over the Head Earmuffs

3M-H9A

- For TWA noise exposure up to 98 dBA
- Stainless steel headband distributes weight for low pressure fit
- Ear cup pivot points tilt for comfort that adjust to individual wearers
- Ultra light with liquid / foam earmuff cushions
- NRR 26dB



3M™ Peltor™ Optime™ 98 Cap-Mount Earmuffs

3M-H9P3E

- For TWA noise exposure up to 98 dBA
- Universal mounting attachment fits most hard hats
- Ear cup pivot points tilt for optimum comfort and efficiency
- Ultra light with liquid / foam filled earmuff cushions
- NRR 23dB

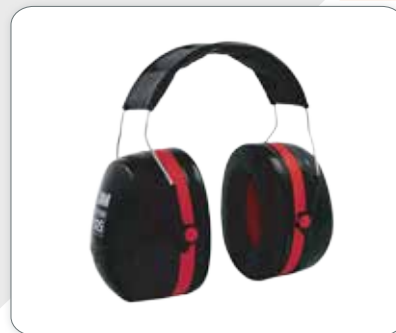


HEARING PROTECTION



3M™ Peltor™ Optime™ 105 Over-the-Head Earmuff 3M-H10A

- Effective hearing protection for noise exposures up to 105 dBA
- Double-shell technology boosts its noise blocking ability
- Durable stainless steel headband resists bending and warping
- Liquid / foam filled earmuff cushions
- NRR 30dB



3M™ Peltor™ Optime™ 105 Behind-the-Head Earmuffs 3M-H10B

- Patented Twin-Cup™ design has soft, foam-filled earmuff cushions
- Behind the head design allows for easy use with hard hats
- Liquid / foam filled earmuff cushions
- NRR 29dB



3M™ Peltor™ Optime™ 105 Cap-Mount Earmuffs 3M-H10P3E

- For noise levels up to 105 dBA
- Proprietary Twin-Cup™ design has soft, foam-filled earmuff
- Ear cup pivot points that tilt for optimum comfort and efficiency
- Easy cap-mount design
- Liquid / foam filled earmuffs cushions
- NRR 27dB



Accessories

3M™ Peltor™ Earmuff Replacement Hygiene

3M-HY3, 3M-HY7, 3M-HY10

- Extend the life of earmuffs with 1 pair of replacement cushions and 1 pair of dampers
- Hygiene kit for H6, H7, H9 & H10 series



3M™ PELTOR's highest

levels of Comfort, Durability and Protection

DESIGN

- » Protected wire head band - building on the success design of the current 3M™ Peltor™ Optime range
- » Light-weight dual mould cups with maximum space inside to help minimise heat and moisture build-up
- » Integrated design for more robustness
- » Colour coded for ease of selection
- » Electrical insulated headband
- » Easy to clean

COMFORT

- » Easy to adjust the headband
- » Wire headband with constant pressure over prolonged wearing periods
- » Twin headband design helps reduce heat build-up, provides good fit and balance



PROTECTION

- » Streamlined cups without compromising attenuation
- » Compatible with a range of 3M eyewear and respirators (validated by internal testing)
- » New smart sealing ring



HEARING PROTECTION



Standard attenuation, slim design

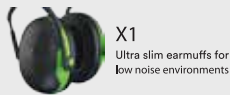
3M™ Peltor™ X1 earmuffs

NRR 22 dB

- » Electrically insulated (dielectric) wire headband on model X1A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance

- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight, low-profile earmuffs for improved compatibility with other personal protective equipment (PPE)

Earcup Options

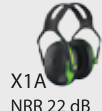


X1
Ultra slim earmuffs for low noise environments

Electrically Insulated

A Models

PSE Models



X1A
NRR 22 dB



X1P5E
NRR 21 dB



X1P3E
NRR 21 dB

Hard Hat-Attached

P3E Models



Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models

Band Position: Over-the-Head

Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X1A	Mean Attenuation (dB)	16.0	18.3	27.7	37.6	35.1	42.2	41.4	39.4	39.3	22 dB	A
	Standard Deviation (dB)	5.2	3.1	3.0	3.5	2.8	2.8	2.6	2.6	3.8		

3M™ Peltor™ X2 earmuffs

Medium attenuation, slim design

NRR 24dB

- » Electrically insulated (dielectric) wire headband on model X2A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance

- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight, low-profile earmuffs are ideal for a variety of noisy applications

Earcup Options

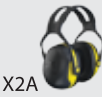


X2
Lightweight earmuffs for low - moderate noise environments

Electrically Insulated

A Models

PSE Models



X2A
NRR 24 dB



X2P5E
NRR 24 dB

Hard Hat-Attached

P3E Models



X2P3E
NRR 24 dB



Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models

Band Position: Over-the-Head

Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X2A	Mean Attenuation (dB)	14.9	21.6	31.8	41.0	36.7	39.1	38.5	39.0	39.0	24 dB	A
	Standard Deviation (dB)	4.2	3.3	2.3	2.5	3.0	2.4	2.0	2.8	3.4		



3M™ Peltor™ X3 earmuffs

High attenuation, low weight

NRR 28 dB

- » Electrically insulated (dielectric) wire headband on model X3A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight earmuffs designed for moderate to high noise exposure applications
- » Newly-designed spacer improves attenuation without a double cup design excess bulk or weight

Earcup Options



Electrically Insulated

A Models

P5E Models



Hard Hat-Attached

P3E Models



Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models

Band Position: Over-the-Head

Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X3A	Mean Attenuation (dB)	23.4	27.7	29.4	42.5	38.8	39.3	42.3	39.5	39.5	28 dB	AL
	Standard Deviation (dB)	3.0	2.1	3.1	2.6	2.7	4.0	3.3	2.6	2.8		

Extremely slim, high performance

3M™ Peltor™ X4 earmuffs

NRR 27 dB

- » Electrically insulated (dielectric) wire headband on model X4A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Lightweight earmuff recommended for moderate to high-noise exposure applications
- » Low-profile cup design for improved compatibility with other personal protective equipment (PPE)
- » Newly-designed spacer improves attenuation without excess bulk or weight

Earcup Options



Electrically Insulated

A Models

P5E Models



Hard Hat-Attached

P3E Models



Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models

Band Position: Over-the-Head

Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
X4A	Mean Attenuation (dB)	20.5	24.1	32.8	40.7	37.6	44.5	45.4	42.4	42.3	27 dB	AL
	Standard Deviation (dB)	4.6	3.4	1.9	2.8	2.9	3.1	2.5	3.1	3.0		



Unparalleled attenuation without the need
for double protection involving ear muffs and ear plugs.

3M™ Peltor™
X5 earmuffs


NRR 31 dB

- » Electrically insulated (dielectric) wire headband on model X5A
- » Earcups tilt for optimum comfort and efficiency
- » Twin headband design helps reduce heat buildup with good fit and balance
- » Wire headband offers comfortable pressure during prolonged usage
- » Very high attenuation earmuffs recommended for high-noise exposure applications
- » Despite larger earcups, product is lightweight with excellent balance and comfort
- » Newly-designed spacer improves attenuation without excess bulk or weight
- » NRR 31 dB — highest of any earmuff on the market


Earcup Options

Electrically Insulated
A Models P5E Models


Hard Hat-Attached
P3E Models




X5
High protection earmuffs
for high noise environments




X5A
NRR 31 dB



X5P5E
NRR 31 dB



X5P3E
NRR 31 dB



Performance (Octave Band Attenuation Data - ANSI S3.19-1974)

Headband Models		Band Position: Over-the-Head										NRR	CSA Class
Model	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000			
X5A	Mean Attenuation (dB)	23.9	30.5	41.1	43.0	38.0	43.1	44.0	41.1	40.3		31 dB	AL
	Standard Deviation (dB)	4.1	2.2	2.8	2.9	2.7	2.9	2.4	2.6	2.2			

3M™ PELTOR's highest
levels of Comfort, Durability
and Protection

3M™ Peltor™ X Series – A new Standard DESIGN, COMFORT and ATTENUATION TECHNIQUES.
3M developed the new 3M™ Peltor™ X Series ear muffs based on these three pillars. In the addition to simplicity of use and ease of identification the new range ear muffs are now the new reference point in terms of over-the-ear protection.



3M™ Peltor™ Optime: A market reference
3M™ PELTOR's highest levels of Comfort, Durability and Protection

3M Hearing Protection Solutions made innovately easy

Protective hand glove selection process



Select the right glove for the right application:

- **Chemical Resistant Gloves** - Use for the handling of chemical such as acids, alkaline, solvent, detergent etc
- **Cut Resistant Gloves** - Handling sharp object that may cause cuts, glove available ranging from cut level 1 to level 5
- **Electrical Insulation Gloves** - Handling high voltage ranging from 2500 KV to 40,000 KV



- Heat Resistant Gloves

- Handling tools or material ranging from 200 degree celsius to 1000 degree celsius

- **Cryogenic Gloves** - Applicable for workers working on liquid nitrogen and liquid oxygen

- **General Working Gloves** - Ideal for worker for general handle to protect against abrasion

- **Disposable Gloves** - Commonly use by researchers, nurses, doctors, law enforcer and general public to protect against chemical, bacteria, virus and biological toxics etc. It is also use in food processing

Factors affecting the types of gloves selected:

- **Gloves Materials** - Nitrile, Natural Latex, Polyvinyl, Chloride (PVC), Neoprene (Polychloroprene), Poly-urethane (PU), Polyethylene (PE), Butyl, Viton, Cotton, Polyester, Kevlar, HPPE, Leather, Zetex, etc.
- **Gloves Sizes** - US sizing range from extra small to 3XL; european size range from size 6 to 12
- **Gloves Lengths** - Available from 9 inches to as long as 31 inches
- **Gloves Thickness** - Depend on whether it is lined or unlined, glove can range from as thin as 3 MIL to as thick as 30 MIL depend on different manufacturers



Quebee powdered examination glove is made from finger hugging latex that provides maximum dexterity, sensitivity and comfort. Special processing has been made to reduce the protein and toxins which can cause irritation and skin sensitivity to certain people.

QB Examination Latex Glove QB-PPS-55-EXAM

- Material: 100% natural latex with starch powdering to ease donning and absorb perspiration
- Thickness: 0.14 mm
- Length: 24cm
- Cuff: Beaded cuff
- Ambidextrous: Fits on either hand
- Acceptable quality level: AQL1.5
- Approval: Test in compliance with



- a) FDA's 21 CFR 800.20(b)
- b) EN455 (Part 1)
- c) ASTM D 5151
- d) SMG – 98



Quebee powder free on-line chlorinated nitrile examination gloves with finger texture surface is made from 100% synthetic nitrile rubber which offers better puncture and abrasion resistance than latex or vinyl. Soft and elastic material feels cooler and is more comfortable and flexible to wear.

QB Examination Nitrile Powder free Glove QB-OCPFNFK-EXAM

- Material: 100% nitrile
- Thickness: 0.13 mm
- Length: 24cm
- Beaded cuff
- Ambidextrous: Fits on either hand
- Acceptable quality level: AQL1.5
- Approval: Test in compliance with

- a) FDA's 21 CFR 800.20(b)
- b) EN455 (Part 1)
- c) ASTM D 5151
- d) SMG – 98

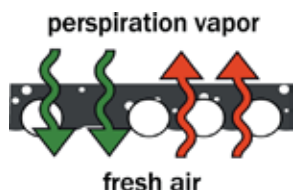


HAND PROTECTION



The combination of top-quality nitrile & water based PU foam & seamless nylon liner gives excellent dexterity, comfort & breathability for your hands.

NBR FOAM COATED GLOVES



- 1** Exceptional comfort & breathability
- 2** Excellent grip & dexterity
- 3** Dmf & solvent zero



XXXX

- Perforation resistance
- Tear resistance
- Cutting resistance
- Resistance to abrasion

Verge 700 QB-VERGE-700-L1

General Purpose NBR Foam Glove - Cut level 1

- Made of nylon yarn with black NBR foam palm
- Excellent grip in wet / slightly oily surface
- Durable
- Breathable
- Abrasion resistant
- Compliance: EN388:2003



4122



Verge 2300 QB-VERGE-2300-L3

NBR Foam Coated Cut Resistant Glove - Cut level 3

- Made of HPPE yarn, polyester yarn, spandex with black NBR foam palm
- Excellent grip in wet / slightly oily surface
- Durable
- Breathable
- Abrasion resistant
- Compliance: EN388:2003



4344



Verge 2500 QB-VERGE-2500-L5

NBR Foam Coated Cut Resistant Glove - Cut level 5

- Made of HPPE, nylon/polyester yarn and glassfiber yarn with spandex and black NBR foam palm
- Excellent grip in wet / slightly oily surface
- Durable
- Breathable
- Abrasion resistant
- Compliance: EN388:2003



4543



Verge 1000 QB-VERGE-1000-L1

Heavy Duty NBR Foam Coated Glove

- Excellent Grip & Dexterity
- Strong resistance to oil & chemicals
- Exceptional comfort & breathability
- Compliance: EN388:2003



4121



HAND PROTECTION



Hand protection is extremely important in jobs that can be dangerous not only on the palm but also on the back of your hands. Verge Mechanical Gloves provide abrasions protection on the palm with patches and back of fingers with plastic protection injected.

Verge PLUS QB-VERGEPLUS-YF

Mechanical Impact Glove - Cut level 3

- Excellent grip and anti-slip properties
- Anti-slip, waterproof and oil proof patches on palm and finger
- Bright luminous green and orange plastic identification at dim light
- 4mm foam lining at knuckle with plastic protection injected
- Compliance : EN388 CE Directive 89/686/EEC



XXXX

- Perforation resistance
- Tear resistance
- Cutting resistance
- Resistance to abrasion



Verge PRO QB-VERGEPRO-BK

Mechanical Impact Glove - Cut level 3

- Excellent grip and dexterity
- Anti-slip, waterproof and oil proof patches on palm and finger
- Kevlar protection at junction of palm & Index finger for increase grip and fire resistant
- 4mm foam lining at knuckle with plastic protection injected
- Compliance : EN388 CE Directive 89/686/EEC



Verge TACTICAL QB-VERGETACTICAL

Mechanical Glove

- Durable synthetic leather double palm
- Reinforced thumb panel for added durability
- Breathing holes between fingers
- Two-way stretch spandex material provides maximum comfort
- Compliance: EN420 CE Directive 89/686/EEC



Verge MAX QB-VERGEMAX-BK

Mechanical Impact Glove - Cut level 5

- Excellent grip and dexterity
- Anti slip, water and oil proof silicon dots on palm & finger
- Fire resistant kevlar cuff
- TPR big panels stitched on knuckle
- Lower part of gloves for increased durability
- Compliance : EN388 CE Directive 89/686/EEC



Verge TOUCH QB-VERGETOUCH-BK

Mechanical Glove - Cut level 2

- Touchscreen compatible fingertip
- Durable synthetic leather double palm
- Reinforced thumb panel for added durability
- Breathing holes between fingers
- 2 Way stretch spandex material provides maximum comfort
- 4mm foam lining at knuckle with plastic protection injected
- Compliance: EN388 CE Directive 89/686/EEC



HAND PROTECTION



Quebee Kevlar / Leather Heat Resistance Glove

QB-KP138-81714 / QB-KP138-81718

- With leather and kevlar reinforced palms
- Provide excellent abrasion and cut protection
- Heat protection range from 600°F to 800°F
- Length: 14" & 18"



Black Stallion Kevlar® High Temperature Gloves

BS-DK114

- Standard high temperature gloves
- 22 oz. Kevlar®
- 14" length
- Fully sock lined with wool
- Size(s): One size



Zetex Plus Gloves

LC-NT-ZPG160000-14

- With Nomex Aramid fiber liner
- Provide excellent abrasion and cut resistance
- High-temperature performance up to 2000°F
- Length: 14"



Hercules Kevlar Glove

HC-HG-2AN

- With Kevlar palm and Nomex Aramid fiber liner
- Provide excellent abrasion and cut resistance
- High-temperature from 600°F-800°F
- Length: 14"



Zetex Aluminized Gloves

LC-NT-ZGA160001-14

- Made with metalized aluminum film bonded to durable Zetex fabric
- Provide excellent insulation, flexibility and resistance to delaminating, cracking and peeling
- Designed to reflect 90% of the radiant heat
- Length: 14"



Zetex Mitten Glove

LC-NT-ZMF161000A14

- These mitts are reversible, and are well suited for using with cover mitts
- With high heat resistant up to 1000°F
- Length: 14"



The first square in each column for each glove type is color coded to provide an overall rating for both Degradation and Permeation. The letter in each colored square is for Degradation alone.

- GREEN:** The glove is very well suited for application with that chemical.
- YELLOW:** The glove is suitable for that application under careful control of its use.
- RED:** Avoid use of the glove with this chemical.



SPECIAL NOTE: The chemicals in this guide highlighted in **BLUE** are experimental carcinogens, according to the ninth edition of Sax' Dangerous Properties of Industrial Materials. Chemicals highlighted in **GRAY** are listed as suspected carcinogens, experimental carcinogens at extremely high dosages, and other materials which pose a lesser risk of cancer.

CHEMICAL	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate	Degr. Rate	Perm. Rate	Perm. Rate
1. Acetaldehyde	■	380	E	P	—	—	E	10	F	NR	—	—	NR	—	—	E	13	F	E	10	F	—	—	—	—	—	—
2. Acetic Acid, Glacial, 99.7%	■	150	E	G	158	—	E	390	—	NR	—	—	F	45	G	E	110	—	E	263	—	E	>48	—	DD	>480	—
3. Acetone	▲	>480	E	NR	—	—	G	10	F	P	143	G	NR	<5	—	E	10	F	G	12	G	E	>48	E	DD	93	VG
4. Acetonitrile	▲	>480	E	F	30	F	E	20	VG	■	150	G	NR	—	—	E	4	VG	E	13	VG	E	>480	E	DD	70	E
5. Acrylic Acid	—	—	—	G	120	—	E	395	—	NR	—	—	NR	—	—	E	80	—	E	67	—	—	—	—	—	—	—
6. Acrylonitrile	▲	>480	E	—	—	—	—	—	—	▲	>480	—	—	—	—	E	5	F	—	—	—	E	>48	—	E	>480	—
7. Allyl Alcohol	▲	>480	E	F	140	F	E	140	VG	P	—	—	P	60	G	E	10	VG	E	20	VG	E	>48	—	E	>18	—
8. Ammonia Gas	■	19	E	▲	>480	E	▲	>480	—	—	—	—	—	—	—	—	—	—	■	27	E	—	—	—	—	—	—
9. Ammonium Fluoride, 40%	▲	>480	E	E	>360	—	E	>480	—	NR	—	—	E	>360	—	E	>36	—	E	>36	—	—	—	—	—	—	—
10. Ammonium Hydroxide, Conc. (28-30% Ammonia)	E	30	—	E	>360	—	E	250	—	NR	—	—	E	240	—	E	90	—	E	247	—	E	>480	—	E	>480	—
11. n-Amyl Acetate	▲	470	E	E	198	G	NR	—	—	G	>360	E	P	—	—	NR	—	—	P	—	—	E	128	G	F	<10	F
12. Amyl Alcohol	▲	>480	E	E	>480	E	E	348	VG	G	180	G	G	12	E	E	25	VG	E	52	VG	E	>480	E	E	>48	E
13. Aniline	▲	>480	E	NR	—	—	E	145	F	F	>360	E	F	62	G	E	25	VG	E	82	G	E	>480	E	E	>480	E
14. Aqua Regia	—	—	—	F	>360	—	G	>480	—	NR	—	—	G	120	—	NR	—	—	G	193	—	E	>480	—	E	>480	—
15. Benzaldehyde	▲	>480	E	NR	—	—	NR	—	—	G	>360	E	NR	—	—	G	10	VG	G	27	F	E	>480	E	E	100	E
16. Benzene (Benzol)	▲	>480	E	P	—	—	NR	—	—	E	>360	E	NR	—	—	NR	—	—	NR	—	—	E	20	F	E	253	VG
17. Benzotrichloride	▲	>480	E	E	>480	E	NR	—	—	—	—	—	G	—	—	NR	—	—	NR	—	—	—	—	—	—	—	—
18. Benzotrifluoride	▲	>480	E	E	170	G	—	—	—	—	—	—	G	<10	F	P	50	GP	—	—	—	—	—	—	—	—	—
19. Bromine Water	—	—	—	E	>480	E	E	>480	E	NR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20. 1-Bromopropane (Propyl Bromide)	▲	>480	E	▼	23	F	▼	<10	P	▲	>480	E	▼	<10	F	▼	<10	P	▼	<10	P	▼	10	P	■	182	VG
21. 2-Bromopropionic Acid	▲	>480	—	F	120	—	E	460	—	—	—	—	G	180	—	E	190	—	G	190	—	—	—	—	—	—	—
22. n-Butyl Acetate	▲	>480	E	F	75	F	NR	—	—	G	>360	E	NR	—	—	NR	—	—	P	—	—	E	80	G	DD	<10	F
23. n-Butyl Alcohol	▲	>480	E	E	>360	E	E	270	E	F	75	G	G	180	VG	E	35	VG	E	75	VG	E	>480	E	E	>480	E
24. Butyl Carbitol	—	—	—	E	>323	E	G	188	F	E	>480	E	E	397	VG	E	44	G	E	148	G	—	—	—	—	—	—
25. Butyl Cellosolve	▲	>480	E	E	470	VG	E	180	G	■	120	G	P	60	G	E	45	G	E	48	G	E	>480	—	E	>480	—
26. gamma-Butyrolactone	▲	>480	E	NR	—	—	E	245	G	E	120	VG	NR	—	—	E	60	G	E	104	F	E	>480	E	E	>480	E
27. Carbon Disulfide	▲	>480	E	G	30	F	NR	—	—	E	>360	E	NR	<5	—	NR	—	—	NR	—	—	▼	7	G	■	138	E
28. Carbon Tetrachloride	—	—	—	G	150	G	NR	—	—	E	>360	E	F	25	F	NR	—	—	NR	—	—	F	53	P	—	—	—
29. Cellosolve (Ethyl Glycol Ether, 2-Ethoxyethanol)	E	>480	E	G	293	G	E	128	G	■	75	G	P	38	G	E	25	VG	E	25	VG	E	>480	E	E	465	E
30. Cellosolve Acetate (2-Ethoxyethyl Acetate, EGAA)	▲	>480	E	F	90	G	G	40	F	■	>360	E	NR	—	—	E	10	G	E	23	G	E	>480	E	DD	105	VG
31. Chlorine Gas	▲	>480	E	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32. Chlorobenzene	▲	>480	E	NR	—	—	NR	—	—	E	>360	E	NR	—	—	NR	—	—	NR	—	—	P	9	P	F	>480	E
33. 4-Chlorobenzotrifluoride	—	—	—	E	320	VG	F	50	F	—	—	—	F	—	—	P	—	—	P	—	—	■	75	F	■	48	F
34. 2-Chlorobenzyl Chloride	E	120	E	—	—	—	F	200	E	E	>480	E	F	65	E	F	20	F	—	—	—	E	>480	E	E	>480	E
35. Chloroform	E	20	G	NR	—	—	NR	—	—	E	>360	E	NR	—	—	NR	—	—	NR	—	—	P	5	P	■	212	VG
36. 1-Chloronaphthalene	▲	>480	E	P	—	—	NR	—	—	G	>360	E	NR	—	—	NR	—	—	P	—	—	E	>480	—	E	>480	E
37. 2-Chlorotoluene	▲	>480	E	G	120	G	NR	—	—	—	—	—	NR	—	—	NR	—	—	NR	—	—	NR	—	—	—	—	—
38. 4-Chlorotoluene	▲	>480	E	P	—	—	NR	—	—	—	—	—	P	—	—	NR	—	—	NR	—	—	▼	30	F	▲	>48	E
39. "Chromic Acid" Cleaning Solution	—	—	—	F	240	—	NR	—	—	NR	—	—	G	>360	—	NR	—	—	NR	—	—	E	>480	—	E	>480	—
40. Citric Acid, 10%	—	—	—	E	>360	—	E	>480	—	FO	5	—	E	>360	E	E	>360	—	E	>480	—	—	—	—	—	—	—
41. Cyclohexane	—	—	—	▲	>360	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	G	30	F	▲	>48	—
42. Cyclohexanol	▲	>480	E	E	>360	E	E	390	VG	G	>360	E	E	360	E	E	103	VG	E	47	G	E	>480	E	▲	>480	E
43. Cyclohexanone	▲	>480	E	F	103	G	P	23	F	E	>480	E	NR	—	—	P	—	—	P	—	—	E	>480	—	▼	150	—
44. 1,5-Cycdoctadiene	▲	>480	E	E	>480	E	NR	—	—	—	—	—	NR	—	—	NR	—	—	NR	—	—	P	—	—	—	—	—
45. Diacetone Alcohol	▲	>480	E	G	240	E	E	208	VG	■	150	G	NR	—	—	E	43	VG	E	60	VG	E	>480	—	DD	—	—
46. Dibutyl Phthalate	—	—	—	G	>360	E	F	132	G	E	>360	E	NR	—	—	E	20	—	G	>480	E	—	—	—	—	—	—
47. 1,2-Dichloroethane (Ethylene Dichloride, EDC)	▲	>480	E	NR	—	—	NR	—	—	E	>360	E	NR	—	—	P	—	—	P	—	—	—	—	—	—	—	—
48. Diethylamine	▲	>480	E	F	51	F	P	—	—	NR	—	—	NR	—	—	NR	—	—	NR	—	—	F	18	—	▼	19	—
49. Diisobutyl Ketone (DIBK)	▲	>480	E	E	263	G	P	—	—	G	>360	E	P	—	—	P	—	—	P	—	—	E	231	G	DD	15	G
50. Dimethyl Sulfoxide (DMSO)	▲	>480	E	E	240	VG	E	398	G	NR	—	—	NR	—	—	E	180	E	E	150	E	E	>480	—	DD	>480	—
51. Dimethylacetamide (DMAC)	▲	>480	E	NR	—	—	NR	—	—	NR	—	—	NR	—	—	E	15	G	E	30	G	E	>480	—	DD	>480	—
52. Dimethylformamide (DMF)	▲	>480	E	NR	—	—	E	45	F	NR	—	—	NR	19	—	E	25	VG	E	40	G	E	>480	E	DD	>480	E
53. Dioctyl Phthalate (DOP, DEHP)	▲	>480	E	G	>360	E	G	>480	E	E	30	F	NR	—	—	P	—	—	E	>360	E	—	—	—	—	—	—
54. Di-n-Octyl Phthalate (DNOP)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E	>480	—	—	—	—	—
55. 1,4-Dioxane	▲	>480	E	NR	—	—	NR	—	—	P	—	—	NR	—	—	F	5	F	F	18	F	E	>480	—	—	—	—
56. Electroless Copper Plating Solution	—	—	—	E	>360	—	E	>360	—	NR	—	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
57. Electroless Nickel Plating Solution	—	—	—	E	>360	—	E	>360	—	NR	—	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
58. Epichlorohydrin	▲	>480	E	NR	—	—	P	—	—	E	300	E	NR	—	—	E	5	F	E								

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CHEMICAL	LAMINATE FILM			NITRILE			UNSUPPORTED NEOPRENE			SUPPORTED POLYVINYL ALCOHOL			POLYVINYL CHLORIDE (Vinyl)			NATURAL RUBBER			NEOPRENE/ NATURAL RUBBER BLEND			BUTYL UNSUPPORTED			VITON/BUTYL UNSUPPORTED		
	BARRIER **			SOL-VEX*			29-SERIES			PVA **			SNORKEL*			*CANNERS AND HANDLERS*			*CHEM-PRO*			CHEMTEK** BUTYL			CHEMTEK* VITON/BUTYL		
	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate	Degradation Rating	Permeation: Breakthrough	Permeation: Rate
80. Hydrochloric Acid, 10%	—	—	—	E	>360	—	E	>480	—	NR	—	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
81. Hydrochloric Acid, 37% (Concentrated)	▲	>480	—	E	>480	—	E	>480	—	NR	—	—	E	300	—	E	290	—	E	>360	—	—	—	—	—	—	—
82. Hydrofluoric Acid, 48%	▲	>480	—	E	334	—	■	>480	—	NR	—	—	■	155	—	▲	>480	—	—	—	—	E	>480	—	▲	>480	—
83. Hydrofluoric Acid, 95%	▲	>480	E	—	—	—	■	342	VG	—	—	—	—	—	—	—	—	—	—	—	—	▲	>480	E	—	—	—
84. Hydrogen Fluoride Gas	▲	>480	E	■	<15	P	—	—	—	—	—	—	■	2	—	■	15	F	■	<15	F	—	—	—	—	—	—
85. Hydrogen Peroxide, 30%	—	—	—	E	>360	—	E	>480	—	NR	—	—	E	>360	—	E	>360	—	G	>360	—	—	—	—	▲	>480	—
86. Hydroquinone, saturated solution	—	—	—	E	>360	E	E	108	E	NR	—	—	E	>360	E	G	>360	E	E	>360	E	—	—	—	—	—	—
87. Hypophosphorus Acid, 50%	—	—	—	E	>480	—	E	>240	—	NR	—	—	E	—	—	E	>480	—	—	—	—	—	—	—	—	—	—
88. Isobutyl Alcohol	▲	>480	E	E	>360	E	E	478	E	P	—	—	F	10	VG	E	15	VG	E	52	E	E	>480	E	E	>480	E
89. Isooctane	▲	>480	E	E	>360	E	E	268	VG	E	>360	E	P	—	—	NR	—	—	P	—	—	■	58	F	▲	>480	E
90. Isopropyl Alcohol	▲	>480	E	E	>360	E	E	110	E	NR	—	—	G	150	E	E	35	VG	E	57	E	—	—	—	—	—	—
91. Kerosene	▲	>480	E	E	>360	E	E	185	G	G	>360	E	F	>360	E	NR	—	—	P	—	—	G	82	—	E	>480	—
92. Lactic Acid, 85%	▲	>480	—	E	>360	—	E	>480	—	F	>360	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
93. Lactic Acid, 36% in Ethanol	—	—	—	E	>360	—	E	>480	—	NR	—	—	F	15	—	E	>360	—	E	>360	—	—	—	—	—	—	—
94. d-Limonene	▲	>480	E	E	>480	E	NR	—	—	G	>480	E	G	125	G	NR	—	—	NR	—	—	F	57	F	F	>480	E
95. Maleic Acid, saturated solution	—	—	—	E	>360	—	E	>480	—	NR	—	—	G	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
96. Mercury	—	—	—	▲	>480	E	—	—	—	—	—	—	▲	>480	E	▲	>480	E	—	—	—	—	—	—	—	—	—
97. Methyl Alcohol (Methanol)	▲	>480	E	E	103	VG	E	73	VG	NR	—	—	G	45	G	E	12	VG	E	22	E	E	>480	—	DD	363	—
98. Methylamine, 40%	▲	>480	E	E	>360	E	E	153	G	NR	—	—	E	135	VG	E	55	VG	E	100	E	E	>480	—	E	>480	—
99. Methyl Amyl Ketone (MAK)	▲	>480	E	F	53	F	F	10	F	E	>360	E	NR	—	—	F	<10	F	F	<10	F	E	155	G	DD	17	F
100. Methyl-t-Butyl Ether (MTBE)	E	>480	E	E	>360	E	P	—	—	G	>360	E	NR	—	—	NR	—	—	—	—	—	G	38	F	—	—	—
101. Methyl Cellosolve	■	470	F	F	208	G	E	10	F	E	30	G	P	55	G	E	20	VG	—	—	—	▲	>480	E	▲	>480	E
102. Methylene Bromide (DBM)	▲	>480	E	NR	—	—	NR	—	—	G	>360	E	NR	—	—	NR	—	—	NR	—	—	E	70	F	E	>480	E
103. Methylene Chloride (DCM)	E	20	VG	NR	—	—	NR	—	—	G	>360	E	NR	—	—	NR	—	—	NR	—	—	G	13	P	E	29	G
104. Methylene bis(4-Phenylisocyanate) (MDI)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	▲	>480	E	▲	>480	E	—	—	—	—	—	—
105. Methyl Ethyl Ketone (MEK)	▲	>480	E	NR	—	—	P	—	—	F	90	VG	NR	—	—	F	5	F	P	<10	F	E	183	G	DD	20	G
106. Methyl Ethyl Ketone (MEK)/Toluene, 1/1	▲	>480	E	—	—	—	—	—	—	—	—	—	—	—	—	F	5	F	—	—	—	F	60	—	—	—	—
107. Methyl Iodide (Iodomethane)	▲	>480	E	NR	—	—	NR	—	—	F	>360	E	NR	—	—	NR	—	—	NR	—	—	F	15	P	G	215	VG
108. Methyl Isobutyl Ketone (MIBK)	▲	>480	E	P	45	F	NR	—	—	F	>360	E	NR	—	—	P	—	—	P	—	—	E	245	G	DD	30	G
109. Methyl Methacrylate (MMA)	▲	>480	E	P	35	P	NR	—	—	G	>360	E	NR	—	—	P	—	—	NR	—	—	E	85	G	DD	10	F
110. N-Methyl-2-Pyrrolidone (NMP)	▲	>480	E	NR	—	—	NR	—	—	NR	—	—	NR	—	—	E	75	VG	F	47	VG	E	>480	—	DD	—	—
111. Mineral Spirits, Rule 66	▲	>480	E	E	>480	E	E	125	G	E	>360	E	F	150	VG	NR	—	—	G	23	G	—	—	—	—	—	—
112. Monoethanolamine	—	—	—	E	>360	E	E	400	E	E	>360	E	>480	E	E	50	E	E	57	E	—	—	—	—	■	>120	—
113. Morpholine	▲	>480	E	NR	—	—	P	—	—	G	90	G	NR	—	—	G	20	G	E	43	G	E	>480	E	DD	235	VG
114. Naphtha, VM&P	▲	>480	E	E	>360	E	G	103	G	E	420	E	F	120	VG	NR	—	—	NR	—	—	—	—	—	—	—	—
115. Nitric Acid, 10%	▲	>480	—	E	>360	—	E	>480	—	NR	—	—	G	>360	—	G	>360	—	E	>360	—	—	—	—	—	—	—
116. Nitric Acid, 70% (Concentrated)	E	>480	—	NR	—	—	▲	>480	—	NR	—	—	F	109	—	NR	—	—	NR	—	—	—	—	—	—	—	—
117. Nitric Acid, Red Fuming	▲	>480	E	NR	—	—	NR	—	—	NR	—	—	P	—	—	P	—	—	NR	—	—	—	—	—	—	—	—
118. Nitrobenzene	▲	>480	E	NR	—	—	NR	—	—	G	>360	E	NR	—	—	F	15	G	F	42	G	E	>480	—	E	>480	—
119. Nitromethane	▲	>480	E	F	30	F	E	60	G	G	>360	E	P	—	—	E	10	G	E	30	E	E	>480	E	E	249	E
120. 1-Nitropropane	■	368	E	NR	—	—	F	30	G	E	>480	G	NR	—	—	E	15	G	E	25	G	E	>480	E	DD	255	E
121. 2-Nitropropane	▲	>480	E	NR	—	—	F	25	F	E	>360	E	NR	—	—	E	5	G	E	30	VG	—	—	—	—	—	—
122. n-Octyl Alcohol	—	—	—	E	>360	E	E	218	E	G	>360	E	F	>360	E	E	30	VG	E	53	G	—	—	—	—	—	—
123. Oleic Acid	—	—	—	E	>360	E	F	13	VG	G	60	E	F	90	VG	F	>360	E	G	120	—	—	—	—	—	—	—
124. Oxalic Acid, saturated solution	—	—	—	E	>360	—	E	>480	—	P	—	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
125. Pad Etch 1 (Ashland Chemical)	—	—	—	E	>360	—	E	>360	—	F	34	—	E	>360	—	E	>360	—	E	>360	—	—	—	—	—	—	—
126. Palmitic Acid, saturated solution	—	—	—	G	30	—	E	>480	—	P	—	—	G	75	—	G	5	—	E	193	—	—	—	—	—	—	—
127. Pentachlorophenol, 5% in Mineral Spirits	—	—	—	E	>360	E	E	151	F	E	5	F	F	180	E	NR	—	—	—	—	—	—	—	—	—	—	—
128. n-Pentane	E	>480	E	E	>360	E	G	30	G	G	>360	E	NR	—	—	P	—	—	E	13	G	—	—	—	—	—	—
129. Perchloric Acid, 60%	—	—	—	E	>360	—	E	>480	—	NR	—	—	E	>360	—	F	>360	—	E	>360	—	—	—	—	—	—	—
130. Perchloroethylene (PERC)	▲	>480	E	G	361	VG	NR	—	—	E	>360	E	NR	—	—	NR	—	—	NR	—	—	P	<10	F	E	>480	E
131. Phenol, 90%	▲	>480	E	NR	—	—	E																				

HAND PROTECTION



Ansell Crusader® Flex Heat Protection, Nitrile coated AE-42-474

Superior heat resistance with complete protection for hand and wrist

- Non-woven felt insulation and a full-length heat barrier designed for intermittent handling of objects up to 400°F
- Two-piece construction eliminates out seams for better finger comfort, dexterity and flexibility
- Bonded nitrile coating protects against snags, punctures, abrasions and cuts
- Provides excellent grip when handling dry or oily surfaces
- Contains no asbestos
- Back of hand heat insulation
- Length 14"



Ansell Sol-Vex® Nitrile, Unsupported AE-37-175 / AE-37-165 / AE-37-185

Versatile chemical protection that performs across a diverse range of applications

- High performance nitrile compound provides an outstanding combination of chemical resistance and strength
- Offers superior snag, puncture and abrasion protection over rubber or neoprene gloves
- Suitable for heavy-duty cleaning applications
- High levels of flexibility, comfort and dexterity
- Won't swell, weaken or degrade, and does not promote contact dermatitis
- Comply with FDA food handling requirements (21 CFR 177.2600)
- 37-175/13", Thickness 15mil
- 37-165/15", Thickness 22mil
- 37-185/18", Thickness 22mil



Ansell Scorpio Neoprene Coated, Interlock Knit-lined AE-09-928

Top-of-the-range Neoprene delivering excellent wide-ranging chemical protection

- Top quality neoprene coating, protects against a wide range of oils, acids, caustics, alcohols and many solvents
- Good resistance to all mechanical hazards
- Special Hi-Lo insulated gauntlet option with quilted cotton liner, for use in both hot and cold temperatures. Permits intermittent handling in hot liquids up to 180°C (400°F) and handling in cold temperatures down to -25°C (-13°F)
- Comfortable anatomical glove shape which follows the contours of the hand at rest. Improves dexterity and reduces hand fatigue
- AQL 1.0 (EN374)
- Improved flexibility



Ansell AlphaTec® Nitrile Ansell Grip technology AE-58-535

A new generation of chemical protection for improved safety and productivity

- Revolutionary Ansell Grip Technology – a nitrile layer filled with microscopic channels that actively transfer oils and other lubricants away from the gripping surface
- Consistent polymer coating significantly reduces the likelihood of chemical leakage
- Unique combination of grip, chemical resistance and superior comfort
- Superior tactility and dexterity for greater control, significantly reducing fatigue and Carpel Tunnel Syndrome-related injuries
- Length 14", Thickness 13mil



Ansell Neoprene unsupported, flock-lined AE-29-865

Broad-spectrum chemical protection for a wide range of applications

- Case hardened to increase chemical and abrasion resistance
- Excellent resistance to a wide range of chemicals, including oils, acids, caustics and solvents
- Cotton flock lined for comfort
- Very good dexterity and sensitivity
- Treated with Sanitised® - Actifresh® to reduce bacterial buildup
- Complies with FDA food handling requirements (21 CFR 177.2600)



HAND PROTECTION



Ansell Scorpio® Neoprene Coated AE-08-354

Neoprene dipped coating on an interlock knit liner

- 100% liquidproof. Soft stretchy knit liner with no seams in working area. Extremely comfortable to wear. Cushions the hand, absorbs perspiration and prevents chafing
- Excellent wet grip. Safer handling means increased productivity
- Exceptional flexibility. Easier to manipulate, less tiring to the hand and easier to get on and off
- Neoprene coating. Wide ranging chemical protection
- Length 14"



Ansell Scorpio® Chemical and Heat Resistant Gloves Neoprene Coated with Thermal Liner AE-19-024

The chemical resistance of neoprene with a soft thermal liner

- Scorpio® gloves combine the flexibility and chemical resistance of neoprene with the comfort and heat resistance of a soft thermal liner. They are designed to protect the users in applications where thermal and chemical risks are present
- Excellent mechanical and chemical properties. Unaffected by detergents and cleaning solutions. Excellent protection against greases and oils. Superior flexibility and grip
- Comfortable insulating double liner. Provides protection from intermittent contact with hot surfaces up to 180°C.

Caution: Do not use the gloves in applications above 180°C or in around open flame



Ansell NeoGreen™ Neoprene & natural rubber latex blend AE-14915-NEOGREEN

Ideal mix of chemical, abrasion and puncture resistance

- Made from a Neoprene and natural rubber latex blend, the NeoGreen glove provides an ideal mix of chemical, abrasion and puncture resistance
- The cotton flock lining on the inside of the NeoGreen glove provides added comfort and the close fitting contoured shape also allows maximum dexterity
- Case hardened for improved resistance against fats and oils
- Sanitised to help reduce bacterial build up
- Manufactured from FDA-compliant materials for food contact
- Liquid proof to an AQL of 1.5
- All ingredients conform to the applicable FDA indirect food additive regulations as prescribed by the FDA Code of Federal Regulations, Title 21, Part 177, Section 2600, 'Rubber Articles'

Caution: This product contains natural rubber latex which may cause allergic reactions



Ansell PVA™ Polyvinyl Alcohol Coated, Interlock Knit Lined AE-15-554

Specially designed to provide chemical protection against dangerous organic solvents Polyvinyl alcohol coating out-performs most other types of chemical-resistant gloves

- One of the only gloves suitable for handling strong organic solvents
- Virtually inert in aromatic and chlorinated solvents
- Comfortable anatomical glove with pre-curved fingers and winged thumb. Easier to manipulate and less tiring to wear
- Soft two-piece knitted liner. Cushions the hand and absorbs perspiration
- Length 14"



Ansell Barrier® Flat-film, Hand-specific AE-02-100

Extreme resistance against a wide range of chemicals, including biological hazards

- Chemical resistant, 5 layer laminated glove
- Hand-specific and ergonomic design.
- Wide Spectrum Resistance.
- 100% inspected. Each glove is individually air-pressure tested
- AQL: 0.065



HAND PROTECTION



Ansell HyFlex® Knit-lined, dipped, color-coded cuff AE-11-800

Big comfort for handling small parts

Ansell's original foam nitrile coating

- Channel oil away from glove surface for sure grip in light oil
- Exceptional, unmatched comfort for workers
- Provides good grip in dry environments

Ergonomic form-fitting liner design

- Glove molds naturally to the hand, minimizing fatigue
- Exceptional comfort and fit increases worker acceptance and safety compliance



Ansell HyFlex® Outstanding oil grip, great comfort AE-11-801

Outstanding grip with a relaxed fit

Patented Knitted Variable Stitch Design (KVSD)

- Advanced technology for relaxed fit in high stress areas
- Molds naturally to hand, helping prevent fatigue

Black foam nitrile coating / Dark gray liner

- Channels oil away from glove surface for sure grip in light oil applications
- Industrial-friendly color hides dirt and grime, increasing time between laundry cycles
- Enables handling of small parts with precision, dexterity and flexibility



Ansell Easy Flex® Nitrile coating, Light duty AE-47-200

A whole new level of light-duty comfort and performance

- Better resistance to snags, punctures, abrasions and cuts when compared to ordinary 8-ounce cotton and string-knit gloves
- Ergonomically designed to be extremely cool, comfortable, light and flexible
- Superior dry grip
- Lightweight nitrile coating repels oil and grip



Ansell Hylite® Nitrile coated, interlock knit lined, medium-duty AE-47-402

A smart alternatives that outperforms cotton, leather and PVC gloves

- Outwears cotton up to 12-to-1, lightweight leather 5-to-1, and PVC-coated gloves 3-to-1
- Comfortable cotton lining with nitrile coating for exceptional snag, puncture, abrasion and cut resistance
- Unique interlock knit liner and contoured design ensure excellent flexibility and dexterity



Ansell HyFlex® Ansell special nylon fine gauge line AE-11-920

Optimal control in slippery situations

Ansell patent pending Grip Technology coating

- Nitrile layer with microscopic channels actively transfers oils and other lubricants away from the gripping surface
- Increases surface contact for enhanced grip and control
- Prevents oil penetration and reduces the risk of dermatitis and liquid exposure
- Multi-layer dipping process provides high abrasion resistance and increases wear life

Special nylon fine-gauge liner

- Provides softness, comfort and breathability



HAND PROTECTION



Ansell HyFlex® Stretch Kevlar® Liner with Foam Nitrile Palm Coating AE-11-500

Ergonomically designed DuPont™ Kevlar® Stretch liner with Spandex

- Provides “second skin” closeness, reducing risk of snags and cuts
- Ability to handle sharp parts with confidence, increasing productivity and safety
- **Black foam nitrile-coated palm**
- Enhances grip in light oil conditions with good abrasion resistance
- Silicone-free and natural rubber latex-free for worker and product protection
- EN388 Level 2 / ANSI Level 2 cut protection



Ansell HyFlex® Light weight fit and feel with superior cut protection AE-11-501

Intercept Technology® with Dupont™ Kevlar® Stretch Armor exclusively

- Enhanced cut protection, reduces the risk of injury and related expenses
- High cut protection increases worker confidence and morale when handling sharp objects
- **Ergonomic stretch liner**
- Provides bare hand closeness, reducing risk of snags and hang-ups
- **Nitrile foam coating**
- Enhances grip in light oil conditions



Ansell Goldknit® 100% Kevlar® string knit dotted, medium weight AE-70-330

Get the confidence of superior cut protection with 100% Kevlar®

- 100% DuPont™ Kevlar® string knit for cut protection
- Protects hands from sharp metal, ceramic, glass and other edges
- Styles featuring PVC dots make them the ideal choice when enhanced grip is desired
- Reversible design allows glove to be worn on either hand, reducing replacement costs
- Launderable for extended life



Ansell Polar Bear® Supreme stainless steel heavyweight AE-74-301

Exceptional protection from cuts with the power of steel

- Made of yarns that contain three strands of stainless steel
- More cost effective than chain mesh designs
- Offers an exceptionally high level of protection from cuts
- Heavyweight, with no seams to irritate hands
- A liner provided for extra comfort
- Reversible so it can be worn on either hand



HAND PROTECTION



Honeywell Chainex 5 Finger Ambidex Stainless Steel HW-250000

The gloves offer a high level of protection against cuts and stab wounds with maximum comfort for flexible hand movement

- Lightweight, AISI 316L stainless steel rings
- Adjustable nylon straps with snap fasteners
- Five-finger glove is reversible / ambidextrous
- Instructions, maintenance, cleaning / storage information included
- Complies with USDA requirements
- Size: XS(Green), S(White), M(Red), L(Blue), XL(Orange)



Piercan L32" 8" Port Neoprene

Dry Box Glove PC-DB-18800C96/10

- The gauntlet is made of polychloroprene material
- Provides safety against mechanical hazards of tear strength, perforation and breaking
- The grade of polychloroprene has been chosen for its high mechanical properties and low modulus



Ansell NeoTop™ Gloves are Constructed from Neoprene AE-29-500

Unsupported Neoprene / Latex flocklined

- Ideal for use in cold conditions - neoprene maintains its superb elasticity even at low temperatures
- Neoprene formula. Protects against a wide range of acids, caustics, alcohols and many solvents
- Superior flexibility. Contains natural rubber. Much less tiring to the hands than other heavy-duty gloves
- Flocklined in pure cotton. Soft, comfortable and absorbent
- AQL 0.65 (EN374)



Regeltex Insulating gloves RG-2.5K-CLASS00 / RG-5K-CLASS0 /

RG-10K-CLASS1 / RG-20K-CLASS2 / RG-30K-CLASS3 / RG-40K-CLASS4

For Electrical works

- Our full range of insulating gloves for live working complies with the specifications of the European Standard EN 60903:2003 and the International Standard IEC 60903:2002.

Likewise, our production is subjected to a system for ensuring EC quality of production by means of monitoring to implement article 11b of the 89/686/EEC directive relating to Personal Protective Equipment which classifies insulating gloves for live working in category III (mortal risks)



Regeltex Flex & Grip range

The range of composition insulating gloves for working in full safety without leather protectors

Manufactured according to the standards (EN-60903 & IEC-60903), the range has been created in taking into consideration the expectations from users. Then, the range **FLEX & GRIP®** is innovative in term of products, seeing that we propose:

- One type of «low voltage» composite gloves for any live working under 1 000 volts : the **FLEX & GRIP®** BT/LV,
- The class 1, tested 10,000 volts for a maximum use voltage of 7,500 volts
- Classes 2,3 and 4 (respectively for the max, uses voltage of 17,000, 26,500 and 36,000 volts), which the specification fully answer by the standards requirements (EN60903:2003 et IEC60903:2002)



HAND PROTECTION



Ansell Touch N Tuff® Nitrile, Smooth Fingertips AE-92-600

Premium quality, 100% thin-mil nitrile disposable gloves, appropriate for chemical splash protection

- Powder-Free, made of 100% nitrile
- Offers three times the puncture resistance of standard latex or vinyl gloves
- Combines excellent fingertip sensitivity with exceptional durability
- Gives a high level of protection against grease and oil
- Lightweight and comfortable to wear
- Length 9.5", Thickness 5mil
- Comply with FDA food handling requirements (21 CFR 177.2600)



Ansell Nitrilite® Nitrile, Ambidextrous, Powder-free AE-93-311

Specifically designed for strength and comfort in critical environments

- Significantly reduced particulate and extractable levels
- 100% powder-free with no plasticizers, silicone or pigments
- Superior strength of nitrile
- Thinner than comparable vinyl or latex gloves for a lighter, more comfortable glove
- Improved dexterity and tactility
- Length 12", Thickness 5mil



Cold Protection Gloves

Tempshield Cryo-Glove Cryogenic Protection in Ultra-Cold Environments

- Superior thermal protection
- Water resistance
- Comfortable / lightweight / excellent dexterity
- Breathable / Stay-dry lining
- Length: 15" (Mid arm length), 18" (Elbow length)

Applications

- Ultra low and blast freezers
- Cold rooms
- Dry ice handling
- Liquid nitrogen
- Liquid oxygen

Environments

- Clinical laboratory
- Bio-medical
- Blood banks
- Frozen Food processing
- Pharmaceutical



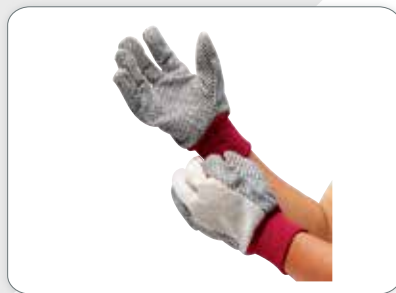
HAND PROTECTION



Polka Dot Gloves

SW-PK363-RW-3178TB

- Made from cotton canvas with black PVC dots and knitted wrist
- Provides excellent grip
- Available in red cuff



Argon Welding Glove

SW-AW115-10.5

- Full grain leather glove
- 9 inch length, gunn cut, wing thumb, with shirred elastic back and cotton tape hemmed, unlined
- Slip-on style for easy donning and doffing
- Buffalo grain leather, tanned cowhide ensures maximum protection against hot objects, cuts and abrasions
- Excellent dry grip for handling small and tough objects
- Available in Grey & Yellow



Quebee Industrial Rubber Gloves

QB-RB305-BK

- Made of natural rubber latex as raw material
- With various additives comfortable and convenient for use
- Length: 12", 18", 24"
- Color available: Black



Goatskin Argon Leather Gloves

SW-AW-12806W

- Soft goatskin full grain leather Argon glove
- Length: 10.5" & 14"
- Color available: Grey



Cowhide Argon Leather Gloves

SW-AW-12806W-DG10.5 / SW-AW-12806Y-CD

- Soft cowhide full grain leather Argon glove
- Colors available: Yellow or grey
- Length: 10.5"



HAND PROTECTION



Cotton Button Gloves

SW-47101-WH

- Made from bleached cotton with snap button closures
- Available in blue or white color



T-Shirt Gloves

LC-HG-CT-4012

- Cotton inspection gloves are reversible and form fitting
- Can be used alone or as inserts with other gloves



Lint-Free Gloves

SW-402W-TK

- 100% Nylon knitted work gloves, with 70D/1 stretch knitted fabric, 2-piece style
- Offers superior flexibility and excellent dexterity, very light and easy to wear
- The fine gauge cut of this glove provides unsurpassed tactile sensitivity



Knitted Cotton Gloves

MR-MR13 / MR-MR16 / MR-MR21 / MR-MR220 / MR-MR29-B /
MR-MR29-S / MR-MR32-B / MR-MR750B / MR-MR750G /
MR-MR750M / MR-MR750R

- Made from 100% knitted cotton that stretches providing dexterity, insulation and comfort
- All styles fit either hand
- Great for general purpose job
- Natural color
- Available in different weight



Poly Dot Gloves

LC-PLD384-62087

- A cotton knitted glove with black poly dots on both side
- Provides excellent grip
- Reversible and washable for added saving





Selection of Protective Clothing

Protective Clothing are specially designed, fabricated, or treated to protect personnel against hazards caused by chemical handling, fire hazards, particulates such as lead, asbestos, and other dangerous working conditions. Workers who deal with hazardous materials need the utmost confidence in their protective apparel



protection, hot work, protection from cuts, and molten metal as well as other types of hazards. They provide guidance for selection use, proper care, and maintenance.

While both EN and NFPA standards provide a guaranteed level of safety and performance, it is important to note they are not the same. Each certification requires different testing procedures, each with its own methodology to simulate the real-life hazmat incidents

Types of Protective Apparel available for selection range from chemical resistant clothing for hazmat handling; flame resistant clothing for highly flammable environment; fire fighting clothing, cryogenic, cold room clothing, reflective vest and rain wear

PROTECTIVE APPARELS



Dupont™ Tychem® C **DP-TYCHEM-C**



- Protection against numerous inorganic chemicals
- Resists liquid splashes up to 2 bar
- Particle tight fabric
- Biological protection-meets the EN14126 requirements in the highest performance class
- Protection against particulate radioactive contamination
- Lightweight Type 3B protection
- Garment design provides the right fit and ease of movement for the wearer
- For applications where decontamination is needed: the fabric is resistant to certain commonly used decontamination substances
- Does not contain halogen compounds, so can be disposed of via standard means



Dupont™ Tychem® F **DP-TYCHEM-F**



- Protection against numerous organic and highly concentrated inorganic chemicals
- Resists liquid splashes up to 5 bar
- Particle tight clothing material
- Biological protection-meets the EN14126 requirements in the highest performance class
- Protection against particulate radioactive contamination.
- Ease of movement and correct fit
- Lightweight Type 3B protection, only 450g for Tychem® F - size L
- For applications where decontamination is needed: the fabric is resistant to commonly used decontamination substances
- Does not contain halogen compounds, so can be disposed of via standard means



Dupont™ Tyvek® **DP-TYVEK**



- Barrier against many inorganic chemicals in low concentrations and particles larger than 1µm
- Protection against particulate radioactive contamination
- Reliable Type 5 and 6 protection
- As a result of its unique manufacturing process, TYVEK® is permeable to air and water vapour
- Easy to dispose off, does not contain halogen compounds
- Garment design offers ease of movement to the wearer



Dupont™ Proshield®10 **DP-PS10**



- Limited particle protection
- High comfort level
- Good air and water vapour permeability



QB MicroPz Disposable Chemical Coverall

QB-5026-356D



- Breathable
- Electrostatic dissipative
- Anti-bacterial
- Protect against solid particulates, liquid chemicals, infective agents, chemical and radio active particles



PROTECTIVE APPARELS



QB Tecasafe Plus FR Garments

- **Inherently flame resistant:** FR properties are built in, and won't wash or wear out
- **Compliance:** Exceeds NFPA 70E HRC1, HRC2 and NFPA 2112 performance standards
- **Comfortable to wear:** Soft and breathable. Superior moisture management because of special cellulosic fibre content
- **Exceptional durability:** Outstanding abrasion resistance and better strength retention after multiple commercial washes
- **Outstanding laundered appearance:** Fabric retains its new look and maintains permanent pressed appearance better than other protective fabrics
- **Excellent value:** Long life cycle and competitive price
- **Design option:** Jacket and pants, coverall
- **Colour available:** Orange, navy blue and other colour option upon request

TECASAFE Overall Chart Sizes

QB-TCS580-CL-NB / QB-TCS580-CL-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
SHOULDER	17.5"	18.5"	19.5"	20.5"	21.5"	22.5"	23.5"	24"
CHEST	40"	42"	44"	46"	48"	50"	52"	54"
WAIST(after elastic)	35"	37"	39"	41"	43"	45"	47"	49"
BODY LENGTH	18.5"	19"	19.5"	20"	20.5"	21"	21.5"	22"
LENGTH OF PANT	39"	40"	41"	42"	43"	43"	44"	44"

TECASAFE Jacket Chart Sizes

QB-TCS580-JK-NB / QB-TCS580-JK-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
SHOULDER	17.5"	18.5"	19.5"	20.5"	21.5"	22.5"	23"	23.5"
CHEST	39"	41"	43"	45"	47"	49"	51"	53"
SLEEVE	22.5"	23"	23.5"	24"	24.5"	25"	25.5"	26"
WAIST	38"	40"	42"	44"	46"	48"	50"	52"
LENGTH	25.5"	26"	27"	28"	29"	29.5"	30"	30.5"

TECASAFE Pants Chart Sizes

QB-TCS580-PT-NB / QB-TCS580-PT-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
WAIST	28"	30"	32"	34"	36"	38"	40"	42"
LENGTH	38.5"	39.5"	40.5"	41.5"	42.5"	43"	43.5"	44"

Quebee Fire Fighting suit are made of Multi – layer structure using Nomex as the outer shell, lined with CONEX & TWARON moisture barrier and insulating thermal barrier resistant lining.

Outer Shelf : 6.0oz Nomex IIIA; 93% Nomex / 5% Kevlar / 2% P140; Twill Weave (200 gm)
Moisture Barrier : 70% Conex / 30% Twaron Laminated to FR PTFE Membrane (70gm)
Thermal Felt : 95% Nomex / 5% Kevlar (150gm)
Lining : 50% Nomex / 50% FR Viscose (130gm)
Reflective Tape : 3M Scotchlite Fluorescent Line-Yellow Fire Coated
Color : Navy Blue
Packaging : 1suit per bag
Sizes : M, L & XL Only (other sizes on request)
Approval : EN 340: 2003, EN 469: 2005

Fire Fighting Suit, Trouser

- Two large Front Flapped Pockets
- Flapped bellow pocket on each leg
- Leg Cuffs with leather trimming
- 3M Scotchlite Reflective Tapes were installed to enhance high visibility

Fire Fighting Suit, Jacket / Coat

- Upright collar closed with Velcro tabs can be turned down
- Chest pocket on the jackets installed with radio pockets and microphone bracket
- The front opening closed with brass zipper which is covered by a Velcro-sealed plate
- Cuff with inner rib sleeve to prevent fire incursion
- 3M Scotchlite Reflective Tapes were installed to enhance high visibility

Photos are for illustration purposes only. Actual colors may vary.



QB-UXF-X6-968-NB

QB firefighter Glove

- **Outer Shelf:** 6.0oz Nomex IIIA; 93% Nomex / 5% kevlar / 2% P140; Twill Weave (200gm)
- **Moisture Barrier:** 70% Conex / 30% Twaron Laminated to FR PTFE Membrane (70gm)

- **Thermal Felt:** 95% Nomex / 5% Kevlar (150gm)
- **Lining:** 50% Nomex / 50% FR Viscose (130gm)
- **Reflective tape:** 3M Scotchlite fluorescent line-yellow fire coated tape
- **Color:** Navy blue
- **Packaging:** 1 pair / poly bag
- **Sizes:** M & L only



QB-UNX-S07-II-NB

PROTECTIVE APPARELS



Chemical Protective Clothing & Headgear

Alpha Solway Chemmaster Clothing

Chemmaster is the well established and proven range of chemical protective clothing from Alpha Solway. The range offers a robust, practical and economical range of garments, including coveralls, jackets, trousers, bibs and brace, surgical coats, leggings, sleeves, headgear and aprons.

- Manufactured from a high tear / abrasion resistant
- 380 gm² PVC coated nylon fabric
- Stitched and high frequency welded seams
- Exceptional chemical resistant properties against many acids & alkalis
- Ideal for a wide variety of chemical handling operations

Suggested Usage

Manufactured in a robust and practical fabric, Chemmaster garments will protect against many acids, alkalis and solvents.



BD-CMBH

EN 466:1995



EN 465:1995



EN 467:1995



BD-CMH10



Chemmaster Protective Headgear (Apollo)

Chemical splash hood, with fixed double skin wide angle-anti-mist visor system, ventilation ports and extended front and back apron, with velcro closure. Designed to wear with safety helmet. Conforms to EN467:1995



BD-CMH4

Chemmaster Protective Headgear

Chemical splash hood, with neck and shoulder cape, visor and apron front. Conforms to EN467:1995



BD-CMH8

Chemmaster Protective Headgear

Chemical splash hood, with neck and shoulder cape, apron front, with anti-mist visor and ventilation ports. Conforms to EN467:1995

PROTECTIVE APPARELS



Quebee Apparels

Chemicals, fats, oils, grease, punctures and abrasions are just some of the hazards industrial handlers are exposed to in their daily work. To shield their bodies from unwanted harm, they need effective protection. Made of high quality vinyl and neoprene that is soft and flexible, Quebee aprons have the versatility to meet medium to heavy duty protective needs.

QB Heavy Duty Neoprene Apron

QB-BSA300-56411

- Made from 19oz. heavy duty black neoprene
- Offer broad spectrum protection from a wide range of chemicals
- Sizes : 35" X 43"
- Thickness : 22 mils
- Color : Black



QB Heavy Duty Vinyl Apron

QB-BSA500-460-54742

- Made from heavy duty vinyl
- Offers greater resistance to chemicals, fats, oils, grease, punctures and abrasion
- Sizes : 35" X 45"
- Thickness : 20 mils
- Color : Green



QB Regular Duty Vinyl Apron

QB-BEA06-R-54441

- Premium Quality Industrial Apron
- Made from high quality vinyl
- Combines flexible and resistance to chemicals, fats, oils and punctures
- Sizes : 35" X 48"
- Thickness : 7.5 mils
- Color : Blue



QB Vinyl Coat Apron

QB-BSA900-56910

- Made from highest quality vinyl with dielectrically welded seams
- Provide chemical resistance and frontal protection
- Full sleeves with elastic wrists for additional arm protection
- Good for high-tech applications, labs, FAB rooms and many chemicals used in electronics manufacturing
- Vinyl coat aprons guard against spill & splashes during food processing, lab ink, chemical processing & medical application-
- Size : 51" X 27"
- Thickness : 8 mils
- Color : Blue





Safeware PE Apron

SW-CN608

- Disposable polyethylene (plastic) white apron
- Waterproof protection
- From neck to knee
- Bib ties
- Size: 76cm x 122cm



Black Stallion 36AHS Aluminium Kevlar Apron

BS-36AHS

- Standard high temperature bib apron
- 19 oz. aluminized carbon/Kevlar®
- 36" length"
- One size fits all



QB PVC Apron

QB-AP-42X29-YW

- Supported PVC / Polyester
- Bib Ties
- Approx. Size: 29" x 42"
- Available in Yellow and White color





Ansell Disposable Polyethylene Aprons

Economical protection for light duty to medium duty use
AE-54-290

- High quality virgin material combines flexibility and resistance to chemicals, fats and oils
- Easy to clean, conveniently packaged
- Available in embossed or smooth styles
- Component materials comply with FDA regulations for food contact
- Poly barrier gown
- Thickness: 1.75 mil
- Size: 28" x 45"



Tempshield Cryo Apron

Protection from cryogenic atmospheres and splashes
TS-CA42-APRON

- Superior thermal protection
- Waterproof
- Comfortable/ Lightweight/ Breathable
- Warmth and splash protection for torso and upper legs
- Adjustable straps at neck and waist
- Side release buckles for quick on/off
- Available in sizes: 24" x 42", 24" x 48"



QB 100% Cotton Coverall

QB-5-XM24 / QB-18-XM24

- Concealed two-way nylon zipper front closure
- Two chest flap pockets
- Pencil slot pocket (left side)
- Waistband velcro adjustment for both sides
- Slack style front pockets
- Two hip pockets with buttons





Protective Sleeves

QB Vinyl Sleeves

QB-ASC06-59001-BU

- A full 18 inches sleeve, 8 mil.
- Vinyl styles are completely heat sealed with no exposed elastic
- Excellent protection against chemicals, snaps, punctures and abrasions



Dupont Tyvek Sleeves

DP-14500

- Elastic both ends
- Providing forearm protection when required
- Length: 17", one size fits all



Black Stallion 18" Kevlar® Knit Sleeve

BS-KK-18S

- SafSleevez™ Kevlar® knit sleeves
- 18" length
- Double layer
- Cut, abrasion and flame-resistant
- ANSI cut level 4
- **CAUTION:** User must determine if this product provides adequate protection



Black Stallion Aluminized carbon/ Kevlar® High Temp Sleeves

BS-AHS14

- Standard high temperature sleeves
- 19 oz. aluminized carbon/Kevlar®
- Pull strap
- 14" length, one size fits all



PROTECTIVE APPARELS



QB PVC/Polyester Yellow Rainsuit QB-HD3512

- Jacket with nylon zip
- Closure front with plastic snaps
- Attached hood with drawstring
- Raglan sleeves with plastic snaps
- 2 flapped pockets and vented yoke back
- Pants with elasticized waist
- Bottom plastic snaps
- 100% waterproof
- Comfortable wear



QB HD3543 PVC/Polyester Raincoat QB-HD3543

- Attached hood with drawstring
- Raglan sleeves with plastic snaps
- Closure front with plastic snaps
- 2 flap pockets in front
- Ventilation opening on back
- 100% waterproof
- Comfortable wear



Reflective Waist Coat ◀◀◀◀

Panda Safety Vest PD-195-YM/WTXB

- High-visibility fluorescent mesh material
- Two horizontal bands of 50mm wide reflective tape
- Two vertical bands over each shoulder joining the upper body band front and crossing at the back
- Silver reflective strip
- Conforms to EN471
- Color: fluorescent yellow
- Size: One size fits all



Panda Fabric w/ Tape Safety Vest

PD-295-YF/WTXB

- Polyester tricot high-visibility material
- Two horizontal bands of 50mm reflective tape
- Two vertical bands over each shoulder joining the upper body band front and crossing at the back
- Silver reflective strip
- Conforms to EN471
- Color: fluorescent yellow
- Size: One size fits all



Panda Elastic Reflective Brace

c/w Buckle PD-637-STXB

- Easy adjust for a secure and comfortable fit
- Retain its color under toughest weather
- Quick release buckle for easy donning and doffing
- Suitable for construction workers, street workers, traffic control, public utilities and safety patrols
- Color: Fluorescent Yellow, Orange
- Material: Nylon, Polyester
- Tape: Silver reflective



PROTECTIVE APPARELS



Tempex classic line has proven its worth over the course of many years of use in cold stores. Certification according to EN342 and the high-quality materials used-for example, the hard-wearing NR-Classic polyamide outer fabric-give its wearer the certainty that they will be perfectly protected, whatever they do, added to this is the fact that the individual products are so well coordinated that they complement each other intelligently, forming a complete protection system. Further advantages of our Classic line include the **Tempex** Thermosoft high-bulk insulating non-woven developed specially for work clothing, reflective tapes for outstanding visibility and the comfortable, functional styles.

Trousers TP-30006-1026

- With kidney guard and fixed elastic braces. Slit closure (not included on womens trousers). Full lengths side zipper with inner flaps. 2 side pockets. Seam reinforcement made of outer fabric. Reflective tape around the legs

Care:-----



Seam reinforcement for long durability. Acrylic fur knee insulation.



Order Picker's Coverall TP-30012-1026

- Tightly fitting acrylic fur collar with velcro fastener. Sleeves with knitted cuffs. 2-way-front zipper with additional covering flaps with press studs. Legs with long side zippers with inner flaps. Elastic waistband at the back. Waist adjustable at the side. 2 breast pockets and 2 side pockets with flaps. With additional acrylic fur knee insulation. Seam reinforcement made of outer fabric. Reflective tape around chest arms and legs

Care:-----



Jacket TP-30001-1026

- Tightly fitting acrylic fur collar with velcro fastener. Sleeves with knitted cuffs. Front zipper with additional covering flaps with press studs. Elastic waistband at the back. 2 side pockets with flap. Reflective tape around chest and arms

Care:-----



PROTECTIVE APPARELS



Supervisor's Coat TP-30011-1026

- Fixed hood with acrylic fur lining. Tightly closing with flap. Sleeves with knitted cuffs. Front with 2-way-zipper and additional covering flaps with press studs. Elastic waistband at the back. 2 side pockets with flap. One breast pocket. Reflective tape around chest and arms

Care:



Hood, Classic TP-30051-1026

- Tightly closing. With drawstring and adjustable tab closure. 2 button holes for fixing to jacket. Suitable for jacket and coverall

Care:



Tempex Cold Protection Sizes

Men's sizes

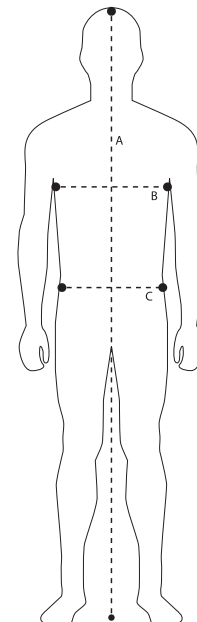
Clothing size		Height	Waist	Chest
46/48	S	170 - 176	76 - 84	88 - 96
50/52	M	176 - 182	84 - 92	96 - 104
54/56	L	182 - 188	92 - 104	104 - 112
58/60	XL	182 - 188	104 - 112	112 - 120
62/64	XXL	182 - 194	112 - 124	120 - 128

For sizes larger than 58/60, we charge an additional +10% oversize fee.

Women's sizes

Clothing size		Height	Waist	Chest
36/38	S	158 - 174	64 - 72	82 - 90
40/42	M	158 - 174	72 - 80	90 - 98
44/46	L	158 - 174	80 - 89	98 - 107
48/50	XL	158 - 174	89 - 101	107 - 119

For sizes larger than 48/50, we charge an additional +10% oversize fee.



A = Height
Measured from head to toe

B = Chest circumference
Measured around over the chest or under the arms

C = Waist size
Measured around the waist
(Narrowest point)

Selecting the correct Fall Arrest Equipment



There are three key components of a Personal Fall Arrest System (PFAS) which must be in place and properly used to provide maximum worker protection:

- Anchorage Point - Body Harness - Connecting Element

Selecting the Correct Anchorage Point

When attached to a suitable anchorage point, the anchorage connector completes the workers fall arrest system. The best harness with the best lanyard cannot arrest a fall if an unsuitable anchorage is selected. An anchorage must support 12kN for a single tie-off for one individual, and in all cases the anchorage



point selected must allow for minimum free fall clearances. An anchorage should also be positioned directly overhead whenever possible to avoid the pendulum effect which can cause a worker to swing as they fall, creating the potential for injury. Anchorage point range from class A1 single point anchors, class A2 inclined roof anchor, class B temporary anchors, class C horizontal flexible cable systems, class D horizontal rails and class E dead weight anchor-ages

Selecting the Correct Body Harness

When selecting the right harness, wearer's must choose a harness that is designed for a specific application. A class 'A' harness shall have a dorsal D ring for fall arrest purposes. A class 'D' harness allows the user to connect into a control descent system or vertical anchorage lifeline. A class 'E' harness with a pair of shoulder D ring allows the user to connect into a confined space access system. A class 'P' harness allow user to connect to a work positioning system. A class 'D', 'E', and 'P' harness will also meet the class 'A' harness requirements with a standard Dorsal D Ring distance, as well as the work application

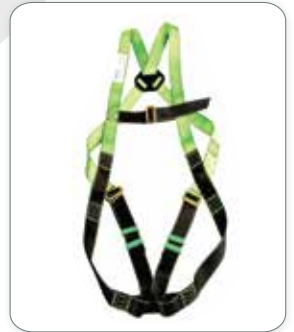
FALL PROTECTION



Full body harness ensures fall safe protection, to arrest fall and in carrying out rescue and evacuation operations. The product design ensures adequate distribution of fall impact to various parts of the human body and supports the torso in such a manner that the workman rests in a comfortable position while awaiting rescue.

Full Body Harness QB-PN-10

- **Attachment Elements** - A dorsal attachment D-Ring for fall arrest
- **Adaptability** - Adjustable thigh-straps; manual sliding chest-strap
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002, SS528:2006



Full Body Harness QB-PN-11

- **Attachment Elements** - A dorsal attachment D-Ring for fall arrest
- **Adaptability** - Adjustable thigh-straps; sliding plates for easy adjustment of chest-strap
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002, SS528:2006



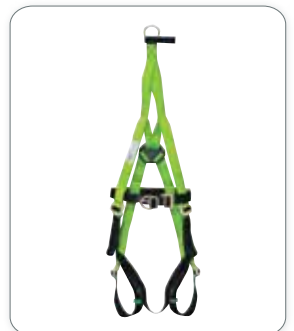
Full Body Harness QB-PN-23

- **Attachment Elements** - 2 shoulder attachment D-Rings and a dorsal attachment D-Ring for fall arrest
- **Adaptability** - Adjustable shoulder and thigh-straps; sliding plates for easy adjustment of chest-strap
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002, SS528:2006



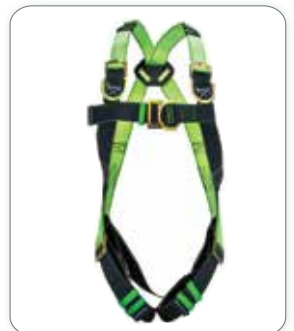
Full Body Harness QB-PN-25

- **Attachment Elements** - 1 Chest-sternal attachment D-Ring and a dorsal attachment D-Ring for fall arrest; extension rescue strap with top-D-ring for rescue
- **Adaptability** - Adjustable shoulder and thigh-straps
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002 and EN1497:2007



Full Body Harness QB-PN-26

- **Attachment Elements** - 1 chest attachment D-rings, and a dorsal attachment D-Ring for fall arrest
- **Adaptability** - Adjustable shoulder and thigh-straps
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002, SS528:2006



FALL PROTECTION



Full Body Vest Harness

QB-PN-20 Vest Harness with QB-PN-26

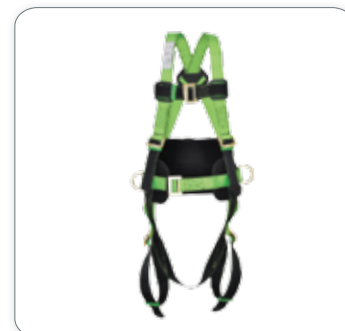
- Poly cotton reflective vest with reflective tapes for higher visibility
- Velcro on the Dorsal D-Ring window vest prevent D-Ring from slipping into the vest
- Equipped with double durable zipper for adjustable width to suit all sizes
- Multiple pockets for convenient and safe storage of items
- Inner pocket for storage of leg straps when not in use
- Harness consists of 2 shoulder D-ring, 1 chest and 1 dorsal D-ring for fall arrest
- Harness equipped with chest, shoulder & thigh adjustable straps
- **Compliance** - Harness Conforms to EN 361:2002, SS528:2006



Full Body Harness

QB-PN-41-(01)

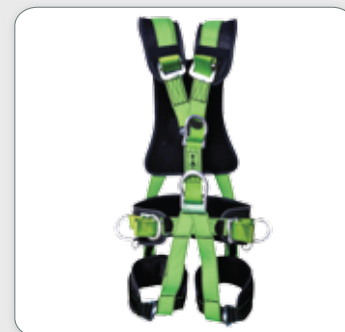
- **Attachment Elements** - 1 dorsal attachment D-Ring for fall arrest & 2 lateral D-Rings for work positioning
- **Adaptability** - Adjustable shoulder, thigh-straps and waist belt; sliding plates for easy adjustment of chest-strap
- **Convenience** - Shoulder and thigh-straps differentiated by a dual colour scheme. Tool holder loops and rings at the back
- **Ergonomics** - Ideally positioned sit-strap for extended comfort
- **Compliance** - Conforms to EN361:2002 and EN358:2000



Full Body Harness

QB-PN-56

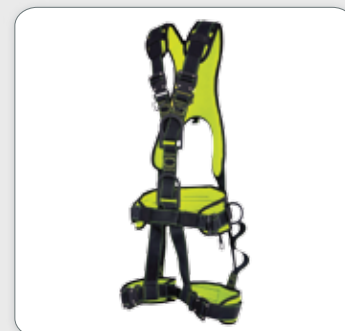
- **Attachment Elements** - 1 dorsal and 1 sternal D-Ring for fall arrest. 1 Ventral D-Ring at waist level for rope access work and 2 lateral D-Rings for work positioning 3 tubular gear racks for climbing gears
- **Adaptability** - Adjustable shoulder, thigh-straps and waist belt
- **Convenience** - An ideal combination of fall arrest, work positioning, rescue and rope access applications. Light weight with all alloy metal components
- **Ergonomics** - Soft padding on shoulder, waist and leg straps for extended comfort
- **Compliance** - Conforms to EN361:2002, EN358:2000 and EN813:2008



Full Body Harness

QB-PN-MAGNA-3

- **Attachment Elements** - 1 dorsal & 1 sternal D-Ring for fall arrest. 1 Ventral D-Ring at waist level in front for rope access and 2 lateral D-Rings at waist level on the sides for work positioning
- Equipped with light weight aluminium D-Rings
- **Adaptability** - Adjustable shoulder, thigh-straps and waist belt
- **Convenience** - shoulder straps & thigh-straps are provided with quick release buckles & waist strap has combination buckles for easy adjustment. 2 Tool holder loops & an extra bigger handle at the back for keeping extra karabiners and accessories. Lanyard keepers on shoulder straps have been provided for easy placement of free lanyards
- **Ergonomics** - Ideally positioned elasticated straps for extended comfort. Specially cushioned mesh net has been used for better shock absorption & comfort of the user
- **Compliance** - Conforms to EN361:2002, EN358:2000 and EN813:2008



FALL PROTECTION



Energy Absorbing Twisted Rope Lanyards

All are made up of 12mm dia., 3 strands polyamide rope incorporated with energy absorber (PN-300). The splices are protected with a sleeve. the length of lanyard is always measured from one load bearing point to other load bearing point in an unloaded but taut condition.

Single Lanyards with Energy Absorber QB-PN-309

- One side hook PN-131
- Other side hook PN-113
- Length: 1.5 meter
- Conforms to EN355:2002, SS528:2006



Twisted Rope E.A Forked Lanyard QB-PN-351

- Made of 12mm dia 3 strands twisted polyamide rope
- Made of PN-113 with energy absorber PN-300 at one end and two steel scaffold hooks PN-131 at other ends
- Length 1.5 meter
- Conforms to EN355:2002, SS528:2006



Twin Lanyards with Energy Absorber QB-PN-351-S

- Made of 12mm dia 3 strands twisted polyamide rope
- PN-113 with energy absorber PN-400 at one end and two steel scaffold hooks PN-131 at other ends
- Length: 1.5 meter
- Conforms to EN355:2002, SS528:2006



Twin Lanyards with Energy Absorber QB-PN-361

- Made of 44mm wide polyester webbing
- PN-113 with energy absorber PN-300 at one end and two steel scaffold hooks PN-131 at other ends
- Length: 1.5 meter
- Conforms to EN355:2002+VG11/PFE 63, SS528:2006 (Additional Static Strength Test)



Kernmantle Rope E.A Forked Lanyard QB-PN-341-A

- Made of Kernmantle Rope of dia 11mm.
- Length 1.5 m
- PN 113 with Energy Absorber PN 300 at one end and two Aluminum Hook PN 136 at other ends.
- **Compliance** - Conforms to EN 355:2002 + VG11/PFE 63 (Additional Static Strength Test)





To enable the user to work at heights in a safe supported position with both hands free for working, Quebee offers a wide variety of work positioning belts and lanyards. All work positioning belts have a sliding belt on the comfort pad which makes adjustment easier for user.

Work Positioning Belt QB-PN-01

- Wide comfort pad to provide lumbar support for long working hours
- Fully adjustable
- Width of back pad: 21 cms
- Two lateral D-Rings for work positioning
- Tool holding webbing loops
- Rings for tool holders, bolt bags etc
- Conforms to EN358:2000



All are made up of 44mm wide webbing and is shrink wrapped. In the event of a fall, the webbing inside the packing tears automatically thereby reducing the impact force transmitted to the user to less than 6kN.

Energy Absorber QB-PN-300

- Made up of 44mm wide webbing and is shrink wrapped
- Opens up to an additional length of about 1.1 meter to 1.2 meter
- Reduces the impact of fall to less than 6kN
- Conforms to EN355:2002



Work Positioning Lanyard with Ring Type Adjuster QB-PN-241

- Made up of 14mm wide dia polyamide 3-strand twisted rope
- Manual ring-type adjuster of forged alloy steel
- Maximum length is 2.0 meter
- Easy to connect steel karabiners PN-112 at both the ends attachment
- Conforms to EN358:2000



Work Positioning Lanyard with Grip Adjuster QB-PN-242

- Made up of 14mm dia polyamide 3-strand twisted rope
- Has a convenient rope-grab adjuster for easy length adjustment
- Maximum length of 2.0 meter
- Easy to connect steel karabiners (PN-112) at both the ends for attachment
- Conforms to EN358:2000

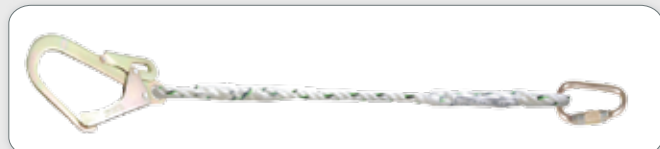


All connected rope lanyards are made up of 12mm dia., 3 strand polyamide rope. The rope has olive green tracer strand. The splices are protected with a sleeve. The length of lanyard is always measured from one load bearing point to other load bearing point in an unloaded but taut condition.

Restraint Twisted Rope Lanyards

QB-PN-209

- One side hook PN-131
- Other side hook PN-113
- Length: 1.5 meter
- Conforms to EN354:2010



PN286(A)(2.0M) Restraint Lanyards - White

QB-PN-286(A)

- PN286(A)(2.0M) Restraint System needed at height
- Connecting element or component of an arrest system
- The splices are protected with a sleeve
- With QB-PN-136 aluminium rebar hook



FALL PROTECTION



All innovative engineering solution to arrest falls, which can be conveniently clasped on to an anchorage line so as to accompany the user without requiring manual adjustment during upward or downward movement.

Rope Grab Fall Arrester QB-PN-2000C

- Works on 14mm dia. anchorage line
- Spacing strap and hook PN-121 as an attachment element
- Fail-safe design ensures correct usage
- Arrests fall within very short fall distance
- Detachable-can be easily detached from the anchorage line
- Has a double security locking system
- Conforms to EN353-2:2002



Twister Rope Anchorage Line

(To be used with QB Fall Arrester)

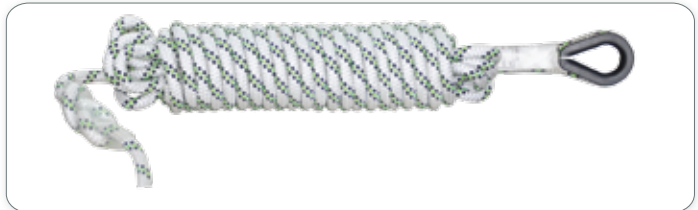
QB-PN-910-10m, 920-20m, 930-30m

- Made of 3 stand polyamide twisted rope of dia 14mm
- One side loop; other side end stop knot
- Length: 10m - PN-910
20m - PN-920
30m - PN-930



Kernmantle Rope Anchorage Line

- Made of Polyamide Kernmantle Rope of dia 11mm
- One side loop; other side end stop knot
- Length - 10m Ref. Anchor PN 910 (KRKD11)
- 20m Ref. Anchor PN 920 (KRKD11)
- 30m Ref. Anchor PN 930 (KRKD11)
- 40m Ref. Anchor PN 940 (KRKD11)
- 50m Ref. Anchor PN 950 (KRKD11)
- Longer lengths are also available on request

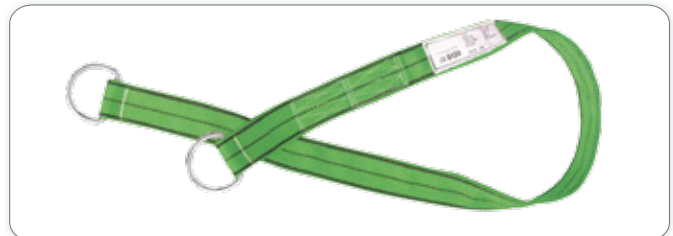


Anchorage Webbing Slings

Quebee Anchorage Slings are made of 44mm wide polyester webbing. This webbing is specially treated to withstand a force of minimum 15kN for 3 minutes, as laid down in EN795:1996. The Anchorage sling can be slipped around any concrete structure, or around pillars or poles, and then used successfully as an anchorage point.

Anchorage Webbing Sling QB-PN-804

- Made up of 44mm wide polyester webbing
- Length : 1.5meter, or as requested
- Has a D-Ring on both ends
- Strength : Min 18kN for 3 minutes
- Conforms to EN795:2012 Type B



Concrete Anchor Strap QB-PN-805

- Made up of 44mm wide polyester webbing
- Length : 1.07meter, or as requested
- Has a D-Ring at one end and textile loop at the other end. Also provided with a polyester covering on the load-bearing face of the webbing
- Strength: Min 18kN for 3 minutes
- Conforms to EN795:2012 Type B



FALL PROTECTION



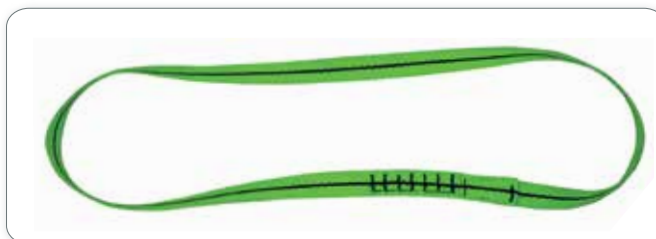
Concrete Anchor Strap QB-PN-806

- Made up of 44mm wide polyester webbing stitched with 70mm webbing at the back for extra protection
- Length: 1.0meter & 2.0meter or as requested
- Has a small D-Ring on one end and bigger D-ring on the other
- Strength: Min 18kN for 3 minutes
- Conforms to EN795:2012 Type B



Cross Arm Strap QB-PN-807

- Made up of 25mm wide polyester webbing
- Length : 0.6meter, 1.0meter & 1.5meter or as requested
- Strength: Min 18kN for 3 minutes
- Conforms to EN795:2012 Type B



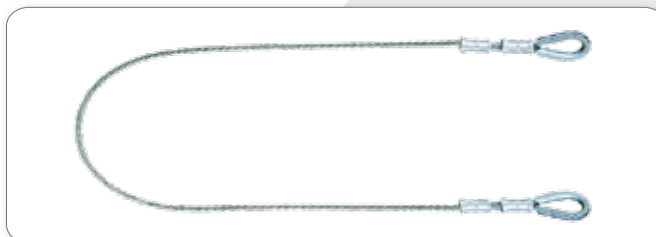
Anchorage Webbing Sling QB-PN-808

- Made up of 44mm wide polyester webbing
- Length : 0.5meter or as requested
- Strength: Min 18kN for 3 minutes
- Conforms to EN795:2012 Type B



Anchorage S.S. Wire Rope Sling QB-PN-814

- Made up of 8.0mm S.S. wire rope
- Length : 1.0meter, 1.5meter, 1.8meter & 2.0meter or as per requested
- Has steel thimbles at both the ends to enable connection with all hardware
- Minimum breaking strength: 5000lbs / 23kN
- Conforms to EN795:2012 Type B



Full Body Harness Accessories

Suspension Trauma Strap

QB-PN-STS-01 (N)

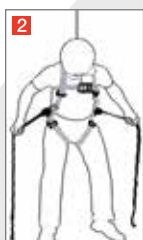
- Extremely effective; specially designed to help relieve the negative effects of Suspension Trauma
- Compact and lightweight. Does not hamper with the activity of the worker while at work
- Allows the suspended worker to stand up in his harness to relieve pressure
- Easy to attach to the harness with the help of the textile loop and velcro provided
- Easy deployment; operation is fool-proof



Steps to use:



Un-Zip the pouches fitted on both sides of harness



Hold the 2 straps together



Connect the straps with each other making a loop with the help of easy-to-use buckle



Put your feet into the loop



Stand onto the loop, so that the thigh straps are free to move



Adjust the sit strap towards the front to release pressure and give a seat posture

FALL PROTECTION



Steel Quarter Turn Locking Karabiner

QB-PN-111

- **Material:** Alloy steel
- **Gate opening:** 16mm
- **Minimum breaking strength:** 25kN
- **Finish available:** Golden yellow galvanized
- **Net Weight:** 160.5gm
- **Conforms to:** EN362:2004 Class B



Steel Quarter Turn Locking Karabiner

QB-PN-113

- **Material:** Alloy steel
- **Gate opening:** 22.5mm
- **Minimum breaking strength:** 40kN
- **Finish available:** Golden yellow galvanized
- **Net weight:** 236gm
- **Conforms to:** EN362:2004 Class B



Steel Triple Action Locking Karabiner

QB-PN-114

- **Material:** Alloy steel
- **Gate opening:** 22mm
- **Minimum breaking strength:** 40kN
- **Finish available:** Golden yellow galvanized
- **Net Weight:** 233.4gm
- **Conforms to:** EN 362:2004 Class B



Steel Triple Action Locking Karabiner

QB-PN-114C

- **Material:** Alloy steel
- **Gate opening:** 22mm
- **Minimum breaking strength:** 40kN
- **Finish available:** Golden yellow galvanized
- **Net Weight:** 233.4gm
- **Conforms to:** EN 362:2004 Class B
- **Available with captive pin*



Aluminium Quarter Turn Locking Karabiner (Forged)

QB-PN-117F

- **Material:** Aluminium alloy
- **Gate opening:** 21mm
- **Minimum breaking strength:** 23kN
- **Finish available:** Coloured, anodized
- **Net Weight:** 84gm
- **Conforms to:** EN362:2004 Class B



Aluminium Triple Action Locking Karabiner

QB-PN-118F

- **Material:** Aluminium alloy
- **Gate opening:** 21mm
- **Minimum breaking strength:** 23kN
- **Finish available:** Coloured, anodized
- **Net Weight:** 79 gm
- **Conforms to:** EN 362:2004 Class B
- **Also available with captive pin on request*



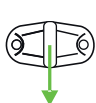
FALL PROTECTION



Aluminium Point Anchor

QB-PN-SA-09

- **Material:** Aluminum Alloy
- **Minimum breaking (System) strength :** 5000lbs / 23kN
- **Finish:** Natural Silver
- **Net Weight:** 308gms
- **Tested to:** EN795 Type A



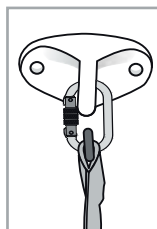
X-axis



Y-axis



Z-axis



Stainless Steel Point Anchor

QB-PN-SA-12

- For fastening into concrete
- **Material:** Stainless Steel
- **Net Weight:** 300gms \pm 10gms
- Is used with adhesive capsule Hilti 10 HVU M12 x 110
- Drilling dia recommended for installation 14mm & Depth - 110mm
- **Tested to:** EN795 Type A



Girder Steel Anchor

QB-PN-SA-13

- Can be installed without use of any tools and fasteners, easily one hand
- **Material:** Stainless Steel & Alloy Steel
- **Minimum breaking (System) strength :** 5000lbs / 25kN
- Can be installed on a steel structure having thickness up to 40mm through a hole of diameter ranging from 21mm to 30mm
- **Net Weight:** 550gms \pm 10gms
- **Conforms to:** EN795:2012 Type B

SA-13



SA-13 (A)

Concrete Steel Anchor

QB-PN-SA-13A

- Can be installed without use of any tools and fasteners, easily one hand
- **Material:** Stainless Steel & Alloy Steel
- **Minimum breaking (System) strength :** 5000lbs / 25kN
- Can be installed on a steel structure concrete wall having thickness up to 340mm by drilling a hole of dia 25mm
- Can be installed easily with one hand without use of any tools and fasteners
- **Net Weight:** 550gms \pm 10gms
- **Conforms to:** EN795:2012 Type B & ANSI Z359.1:2007

Parapet Anchor with Extended Movable Arm

QB-PN-SA-11B

- **Material:** High strength steel galvanized to provide corrosion protection
- **Minimum breaking (System) strength :** 5000lbs / 23kN
- Flange with adjustable from 60 mm to 360 mm
- **Net Weight:** 9560gms \pm 100gms
- **Conforms to:** EN795:2012 Type B & ANSI Z359.1:2007



Beam Anchor

QB-PN-SA-08

- **Material:** Aluminium Alloy & Brass
- **Minimum breaking (System) strength :** 5000lbs / 23kN
- Flange with adjustable from 90 mm to 340 mm
- **Net Weight:** 1850gms \pm 10gms
- **Conforms to:** EN795:2012 Type B & ANSI Z359.1:2007

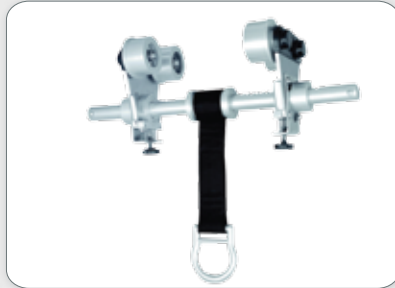


FALL PROTECTION



Beam Anchor Trolley

QB-PN-SA-15



- Provides a movable anchorage point using the length of beam to which it is mounted to move along with the user
- Material:** Aluminum & Stainless Steel
- Minimum breaking (System) strength :** 5000lbs / 23kN
- Flange width adjustable from 80mm to 250mm
- Length of webbing: 174mm
- Net Weight:** 4200gms \pm 10gms
- Conforms to:** EN795:2012 Type B & ANSI Z359.1:2007

Beam Anchor (Mini)

QB-PN-SA-08M



- Material:** Aluminium Alloy & Brass
- Minimum breaking (System) strength:** 5000lbs / 23kN
- Flange width adjustable from 75mm to 150mm
- Net Weight:** 1550gms \pm 10gm
- Conforms to:** EN795:2012 Type B & ANSI Z359.1:2007

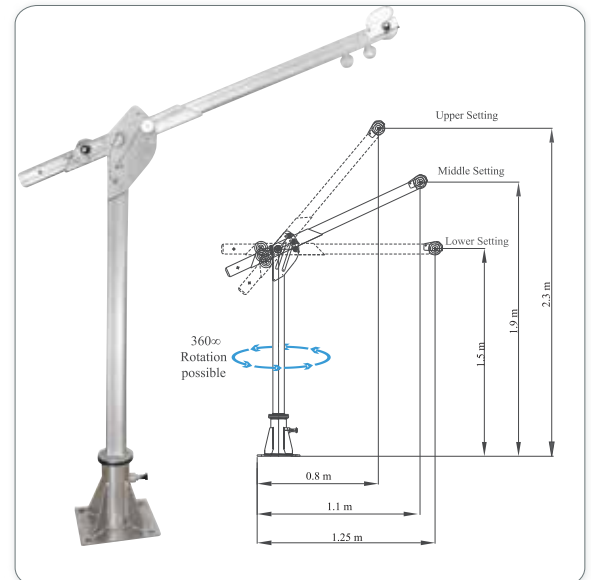
Beam Anchor Trolley QB-PN-SA-15A

- Provides a movable anchorage point using the length of beam to which it is mounted to move along with the user
- Material:** Aluminum & Stainless Steel
- The flanges are adjustable, and can be adjusted to widths from 80mm to 250mm
- Anchorage is provided by a Steel D-ring attached to the trolley-bar
- Minimum breaking (System) strength:** 5000lbs / 23kN
- Net Weight:** 3900gms \pm 10gms
- Conforms to:** EN795:2012 & Type B & ANSI Z359.1:2007



Cantilever K-Pod QB-PN-900

- New K-Pod which provides a safe and sure system for easy access to confined spaces. The K-pod is an ideal choice to provide overhead anchorage which can be mounted on different bases and it Tested to EN795 Type A
- The K-Pod is made of highly corrosion resistant stainless steel, and can swivel a complete 360 degrees on its mounted base, hence providing a versatile reach and access
- The unique feature is that the height of the Cantilever arm of the K-Pod is adjustable at 3 defined points, with upper height adjustment at 2.3m, middle arm adjustment of 1.9m, and lowered arm adjustment at 1.5m. This enables the use of the K-Pod even in those areas where the roof height is small
- The K-Pod can be easily mounted on the floor as well as on the wall through special floor the wall mounting brackets which are made available as per need. The K-Pod can also be mounted on the floor of heavy vehicles, hence making it extremely versatile in use
- Winch PN-801 can also be easily mounted on to the K-Pod with the help of stainless steel fasteners



Accessories of K-Pod:



Floor Mounting Bracket
QB-PN-900 (01)



Wall Mounting Bracket
QB-PN-900 (02)



Stainless Steel Fasteners
for Winch Mounting
QB-PN-900 (03)

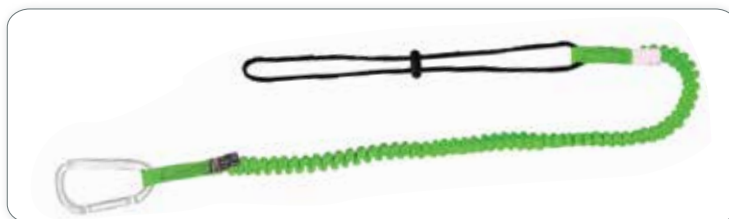
Setting	Distance from bar	Height of arm
Upper	0.8m	2.3m
Middle	1.1m	1.9m
Lower	1.25m	1.5m

FALL PROTECTION



Tools Lanyard with Mini Karabiner QB-PN-TL-01

- Made of 20mm wide tubular webbing
- Convenient stretch-lanyard for tool holding
- Provided with a light-weight karabiner for attachment to the user's belt
- Can hold tools up to 10kg
- Relaxed length : 85cm
- Expanded length : 135cm



Rope Access Rescue Accessories

Pilot Chair QB-PN-IMP005

Spreader Bar QB-PN-IMP005-01

- Ergonomic and comfortable working chair
- PN111 Steel quarter turn-locking karabiner (sold separately)
- For vertical ascent and descent
- Tested as per EN1498
- Spreader bar sold separately and available as optional accessory



Evacuation Triangle QB-PN-852

- To be used for rescue of injured personnel
- Contains 3 metallic D-Rings at attachment elements



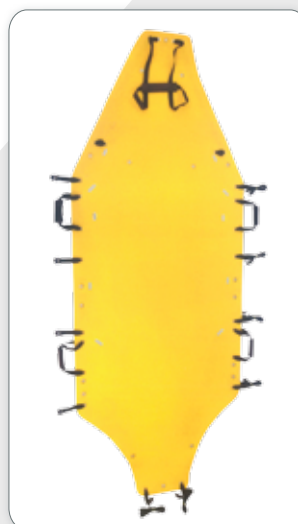
Rope Access Rescue



QB Respac Recovery

Stretcher QB-PN-403

- Inert to all conditions, body fluids & blood
- Allows safe carrying of the wounded
- Easy to use and store
- Combination of optimum support and function
- Extremely flexible rescue system
- Highly durable
- Can be used both vertically as well as horizontally



Maximum load: 200kg
Weight of device: 5.5Kg
Total weight with bag and belts: 8Kg

Loading surface
Length: 8ft
Width: 3ft
Material: High Strength Polymer
Hooks (Material): Alloy Steel

Rope
Length: 9m
Diameter: Dia 10mm

Lifting Belts
Length: Feet zone 6.7ft./ Head zone 6.4ft.
Width: Feet zone 5mm / Head zone 5mm
Maximum load belts: 3000kg
Maximum load stitching: 2000kg

Handles
Material: Polyester
Number of handles on every longitudinal side: 2

FALL PROTECTION



Micron Block with QB-PN170 & QB-PN136
Hook The lightest SRL in its range

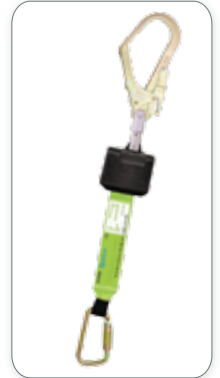
Micron Block with
QB-PN169 & QB-PN136 Hook
QB-PN-MIC02

- Robust and durable
- Comes in 21mm width webbing
- Maximum length of retractable Webbing: 2m
- Comes with steel swivel hook PN-136
- Has inbuilt textile energy absorber
- Conforms to: EN360:2002



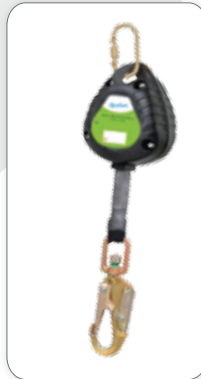
Mini Block (Swivel)
QB-PN-2002-SW131

- Having a swivel scaffold steel hook PN 131 at anchorage end with fall indicator
- Having a retractable webbing of width 47mm
- Maximum length: 2.5m
- Incorporated with an energy absorber for shock absorption
- Supplied with steel karabiner PN113 at the attachment end
- Minimum breaking strength >15kN
- Weight- 1.66 kgs
- Conforms to EN360:2002



Retractable Block Polymer Casing with Webbing
QB-PN-PCWB-02

- Casing made up of high impact strength polymer to prevent breakage and is nearly indestructible
- Comes in 25mm width webbing
- Is provided with PN-162 connector with load indicator attachment end
- Minimum breaking strength >15kN
- Conforms to EN360:2002



Retractable Block Polymer Casing with G.I. Wire Rope
QB-PN-PCGS-3.5

- Casing made up of high impact strength Polymer, to prevent breakage and is nearly indestructible
- Is provided with PN-162 connector with load indicator attachment end
- PN-113 at anchorage end and swivel hook PN-162 at attachment end
- Swivel hook PN-123 with load indicator
- Comes with galvanized steel wire rope of dia 4.5mm
- Minimum breaking strength >12kN
- Conforms to EN360:2002



Retractable Block Polymer Casing with G.I. Wire Rope
QB-PN-PCGS-5

- Casing made up of high impact strength Polymer, to prevent breakage and is nearly indestructible
- Comes with galvanized steel wire rope of dia 4.5mm
- Is provided with PN-162 connector with load indicator attachment end
- Anchorage eye with swivel action.
- Prevents undue twist of rope while working or in the event of a fall
- Minimum breaking strength >12kN
- Conforms to EN360:2002



Retractable Block Polymer Casing with G.I. Wire Rope
QB-PN-PCGS-10

- Casing made up of high impact strength polymer, to prevent breakage and is nearly indestructible
- Comes with galvanized steel wire rope of dia 4.5mm
- Is provided with PN-162 connector with load indicator attachment end
- Anchorage eye with swivel action.
- Prevents undue twist of rope while working or in the event of a fall
- Minimum breaking strength >12kN
- Conforms to EN360:2002



Retractable Block Polymer Casing with G.I. Wire Rope
QB-PN-PCGS-15

- Casing made up of high impact strength polymer, to prevent breakage and is nearly indestructible
- Comes with galvanized steel wire rope of dia 4.5mm
- Is provided with PN-162 connector with load indicator attachment end
- Anchorage eye with swivel action.
- Prevents undue twist of rope while working or in the event of a fall
- Minimum breaking strength >12kN
- Conforms to EN360:2002



Retractable Block Polymer Casing with G.I. Wire Rope
QB-PN-PCGS-20

- Casing made up of high impact strength polymer, to prevent breakage and is nearly indestructible
- Comes with galvanized steel wire rope of dia 4.5mm
- Is provided with PN-162 connector with load indicator attachment end
- Anchorage eye with swivel action.
- Prevents undue twist of rope while working or in the event of a fall
- Minimum breaking strength >12kN
- Conforms to EN360:2002



FALL PROTECTION



Quebee introduces Evac a multifacilitated device that allows various applications like Rescue, Self evacuation, Automatic controlled descent etc. The Evac has an automatic speed regulation, controlled by highly mechanical four point centrifugal force mechanism. Highly corrosion resistant body and extremely light in weight.

EVAC

QB-PN-406, QB-PN-407

- Material of construction - high strength aluminium alloy
- High functional safety
- Comes with Kernmantle Rope of dia 10.5mm permanently assembled to the system
- Descent speed controlled at 0.9m/sec to 1.2m/sec
- Both termination ends of the rope provided with textile loops for connections with hooks

Ref. No.	Anchorage end	Weight
QB-PN-406	Anchorage eye	1.385 kg
QB-PN-407	Alu. Rebar Hook PN-136	1.830 kg

- The Evac PN-406 has three-mode working
 - Mode 1-** Allows only clockwise descent of rope restricting movement on opposite side
 - Mode 2-** Allows only anti-clockwise descent of the rope, restricting descent on opposite side
 - Mode 3-** Allows descent of the rope in both clockwise and anti clockwise directions
- Ideal for self evacuation. Enables rapid escape and self rescue and descent
- Sufficient length of rope to allow descent up to 150m
- Conforms to EN341:2011



QB-PN-406

QB-PN-407

Both *Evac* & *Evac-R* come with the length of rope as required by the customer

Evac-R is a unique device comes with the feature of controlled descent along with an integral rescue hoisting function. Hence *Evac-R* is an ideal equipment for use rescue and retrieval.

EVAC-R

QB-PN-408, QB-PN-409

- Material of construction - high strength aluminium alloy
- High functional safety
- Comes with rope of dia 10.5mm permanently assembled to the system
- Descent speed controlled at average 1.1m/sec
- Both termination ends of the rope provided with textile loops for connections with hooks
- The Evac-R PN-408 has three-mode working
 - Mode 1-** Allows only clockwise descent of rope restricting movement on opposite side.
 - Mode 2-** Allows only anti-clockwise descent of the rope, restricting descent on opposite side
 - Mode 3-** Allows descent of the rope in both clockwise and anti clockwise directions
- Sufficient length of rope to allow descent up to 150m & hoisting height up to 75m
- Conforms to EN341:2011 & EN1496:2006

Ref. No.	Anchorage end	Weight	Hoisting Capacity
QB-PN-408	Anchorage eye	2.135 kg	100kg
QB-PN-409	Alu. Rebar Hook PN-136	2.580 kg	100kg



QB-PN-408

QB-PN-409



Retractable Block with Retrieval System

QB-PN-PCGS10R

Model	Length of Wire Rope	Weight (Kg)
PCGS10R	10 mtr	5.45 kgs



Retractable Block with Retrieval System

QB-PN-PCGS20R

Model	Length of Wire Rope	Weight (Kg)
PCGS20R	20 mtr	9.2 kgs

Retractable Block with Retrieval System-10mtr (PCGS-10R) & 20mtr (PCGS-20R)

- Comes in a new stylish, slim polymer casing and a side handle with a special grip for easy carrying
- The locking pin on the side of the casing at the base of the handle allows this dual system to work in independent Fall Arrest & Winch modes
- Can easily mounted on the leg of Quebee Tripod PN-800 using specialized brackets
- Minimum breaking strength** > 12kN
- Also available with SS Wire Rope instead of GI Wire Rope
- Conforms to:** EN 360:2002 & EN 1496:2006 Class B

To enable easy retrieval of a victim of fall. The block allows the fall to arrest and also allows easy hoist of the victim with the help of its Hoist handle.

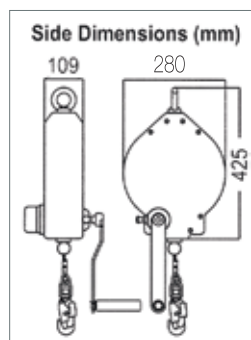
Retrieval Fall Arrester Block - In Polymer casing which is coupled with Hoisting Winch

Retractable Block with Retrieval System

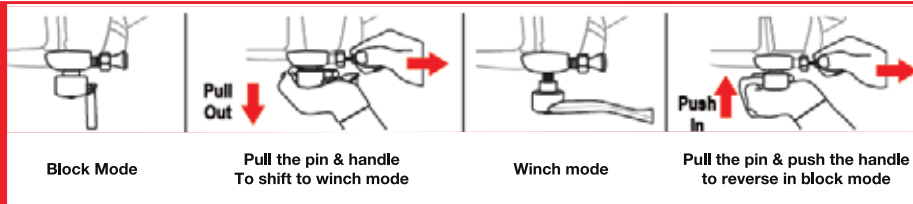
QB-PN-PCGS-30R

- The locking pin on the side of the casing at the base of the handle allows this dual system to work in independent fall arrest & winch modes
- Can be easily mounted on the leg of tripod PN-800A using specialized brackets Ref. PN-800A (09)
- Minimum breaking strength:** >12kN
- Conforms to:** EN360:2002 & EN1496:2006 Class B

Model	Length of Wire Rope	Weight (Kg)
PCGS-30R	30 mtr	14.5
PCGS-25R	25 mtr	14.1



It is easy to shift to Winch mode from Block mode (& vice versa) following the given steps:



FALL PROTECTION



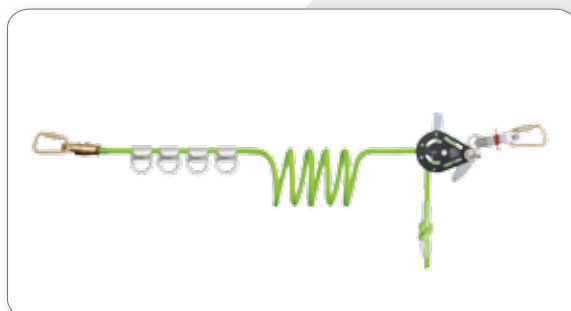
Horizontal 4 Man Temporary Horizontal Rope Anchorage Line QB-PN-3001

- Quick & easy to install, and is re-usable
- Highly corrosion resistant Tensioner made of Aluminium & Stainless Steel
- The Lifeline made up of 16mm dia Kernmantle Rope, has a swivel brass connector at one end, which is connected to a rated anchor point with the help of a Steel Quarter Turn
- Locking Karabiner PN 113. The other end of the lifeline is connected with the help of a Karabiner PN 113, connected to the eye of the tensioner. The anchorage line is secured at the termination with the help of a stop-knot covered with a protective sleeve
- Swivel Brass Connector-Specially designed to prevent any twisting of the rope.
- The system has 4 Steel O-Rings (in PN 3001) to enable the user to easily attach the Lanyard of his Harness to the Lifeline using a Karabiner
- Covers a span of 5m to 25m
- **Tested to:** EN 795 Type C, CEN/TS 16415:20012



Horizontal 4 Man Temporary Horizontal Rope Anchorage Line (Cross Over) QB-PN-3001 (C)

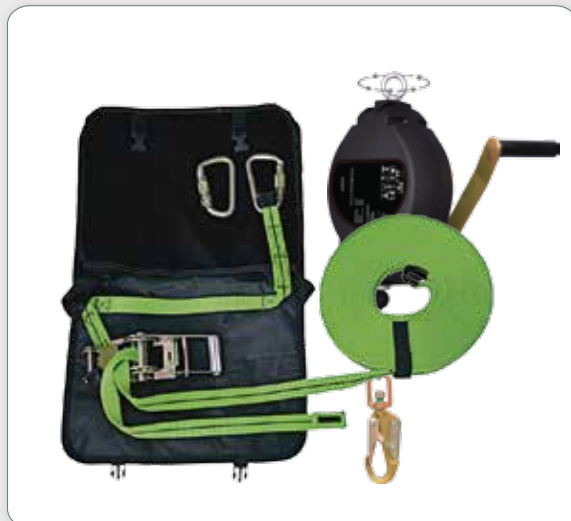
- Quick & easy to install, and is re-usable
- Highly corrosion resistant Tensioner made of Aluminium & Stainless Steel
- The Lifeline made up of 16mm dia Kernmantle Rope, has a swivel brass connector at one end, which is connected to a rated anchor point with the help of a Steel Quarter Turn
- Locking Karabiner PN 113. The other end of the lifeline is connected with the help of a Karabiner PN 113, connected to the eye of the tensioner. The anchorage line is secured at the termination with the help of a stop-knot covered with a protective sleeve
- The system has 4 Steel O-Rings (in PN 3001) to enable the user to easily attach the Lanyard of his Harness to the Lifeline using a Karabiner
- Covers a span of 5m to 25m
- **Tested to:** EN 795 Type C, CEN/TS 16415:20012



Temporary Horizontal Anchorage Line System

Horizontal Anchorage Lifeline QB-PN-3000

- The Horizon PN-3000 is a horizontal anchorage life line made up of 30mm polyester webbing equipped with the Quebee ratchet tensioner that allows easy tensioning of the lifeline between two structures. Both the ends are provided with auto locking steel karabiners (Our Ref PN-113)
- The whole system is supplied in a bag, which is permanently attached to the assembly and also enables the user to easily carry the system with the help of comfortable shoulder hanging straps provided in the bag
- Once fitted, you can easily put back the extra webbing not deployed along the length, into the bag
- Available length of total 20meter, thus the user can use it for a length ranging from 5meter to 20meter
- **Tested to:** EN795:



Sr.No.	Name (Product Code)	Qty	Sr.No.	Name (Product Code)	Qty
1	100m kernmantle- PN-9100K-100m	1	11	Webbing Lanyard (25mm)- PN-221-0.2m	4
2	ADRes Bag kit- QB-ADRes-Bag	2	12	Carbon Fiber Pole- QB-LC-CTFP-5050	1
3	Alum Double Pulley- PN-AP-013	2	13	2 Legged Sling- LC-BC-SLING	1
4	Alum Single Pulley- PN-AP-014	1	14	Evacuation Triangle- PN-852	1
5	Steel Karabiner- PN-114C	3	15	AMBU Collar- LC-EO-AMBU-281	1
6	Concrete Strap (44mm)- PN-806-2M	5	16	Full Body Rescue Harness- PN-56	2
7	Alum Rope Clamp- PN-402R	2	17	Forked Twin Lanyard- PN-361-1.5M	2
8	Steel Karabiner- PN-114	20	18	50m Kernmantle Rope- PN-950K-50m	1
9	Webbing Lanyard (25mm)- PN-221-0.6m	2	19	SAR ROCKER- LC-TR-SAR-Rocker	1
10	SAR A-B Descender- LC-TR-SAR-A-B	1	20	Webbing Rescue Ladder- LC-BC-Ladder	1



Sr.No.	Name (Product Code)	Qty	Sr.No.	Name (Product Code)	Qty
1	100m Kernmantle Rope- PN-9100K-100m	1	8	Steel Karabiner- PN-114	8
2	ADRes Bag kit- QB- ADRes-Bag	1	9	Webbing Lanyard (25mm)- PN-221-0.6m	1
3	Alum Double Pulley- PN-AP-013	2	10	SAR A-B Descender- LC-TR-SAR-A-B	1
4	Alum Single Pulley- PN-AP-014	1	11	Webbing Lanyard (25mm)- PN-221-0.2m	1
5	Steel Karabiner- PN-114C	4	12	Carbon Fiber Pole- QB-LC-CFTP-5050	1
6	Concrete Strap (44mm 2m)- PN-806-2M	1	13	2 Legged Sling- LC-BC-SLING	1
7	Alum Rope Clamp- PN-402R	1			



Sr.No.	Name (Product Code)	Qty	Sr.No.	Name (Product Code)	Qty
1	100m kernmantle Rope- PN-925K-25M	1	6	Rope Clamp- PN-402R	1
2	ADRes Bag kit- QB-ADRes-Bag	1	7	Concrete Anchor Strap- PN-806-2M	1
3	Alum Anchorage Hook- PN-154	1	8	Steel Karabiner 40KN- PN-114	2
4	SAR Rocker- LC-TR-SAR-ROCKER	1	9	Carbon Fiber Pole- QB-LC-CFTP-5050	1
5	Steel Karabiner- PN-114C	2	10	Full Body Rescue Harness- PN-26	2
			11	Forked Twin Lanyard- PN-361-1.5M	2

FALL PROTECTION

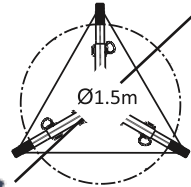


Tripod QB-PN-800

- For access in confined spaces
- With two mounted pulleys at the head of the Tripod in the prolongation of the main leg for passing a cable
- Having two auxiliary eye bolts as attachment points
- Aluminum alloy cast head, legs in aluminum
- Steel support-shoes provided with rubber sole to increase friction and impart more stability
- Strength of anchorage point greater than 12kN
- Every Tripod is provided with inbuilt fixture for attaching our winch PN-801(can be supplied without this fixture on special request)
- Every Tripod is provided with Tripod Bag Ref. No. PN-904 (7ft)
- PN-800 (7ft) can also be used with retrieval fall arrester blocks PCGS10R, PCGS20R & PCGS30R with the help of their specialized mounting brackets respectively



QB-PN-800 (7ft.)

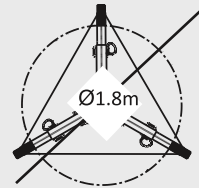


QB-PN-904 (7ft)

Length	Specification	Compliance
7 ft	<ul style="list-style-type: none"> Fully adjustable telescopic legs, adjustable height from 1.15m to 2.15m Wheelbase (Footprint): 1.5m Diameter Weight: 12.15kgs Maximum load capacity: 500kg 	EN795: Type B
10 ft	<ul style="list-style-type: none"> Fully adjustable telescopic legs, adjustable height from 1.9m to 3.07m Wheelbase (Footprint): 1.7m Diameter Weight: 16.8kg Maximum load capacity: 500kg 	



QB-PN-800 (10ft.)



Winch QB-PN-801

- To be used for raising or lowering of personnel or material into confined spaces
- Equipped with bolting fixture for robust fitting on to the tripod PN-800
- Lifting load capacity: 135 kgs
- Length: 20.0m
- To be used with a retractable fall arrester when deployed for raising or lowering a person
- Can also be fitted to Quebee K-pod PN-900
- Also available with the SS Wire Rope instead of GI. Respective references with SS Wire Rope shall be PN 801(20)SS & PN-801 (25)SS
- Conforms to EN1496:2006 (Class A)



Winch



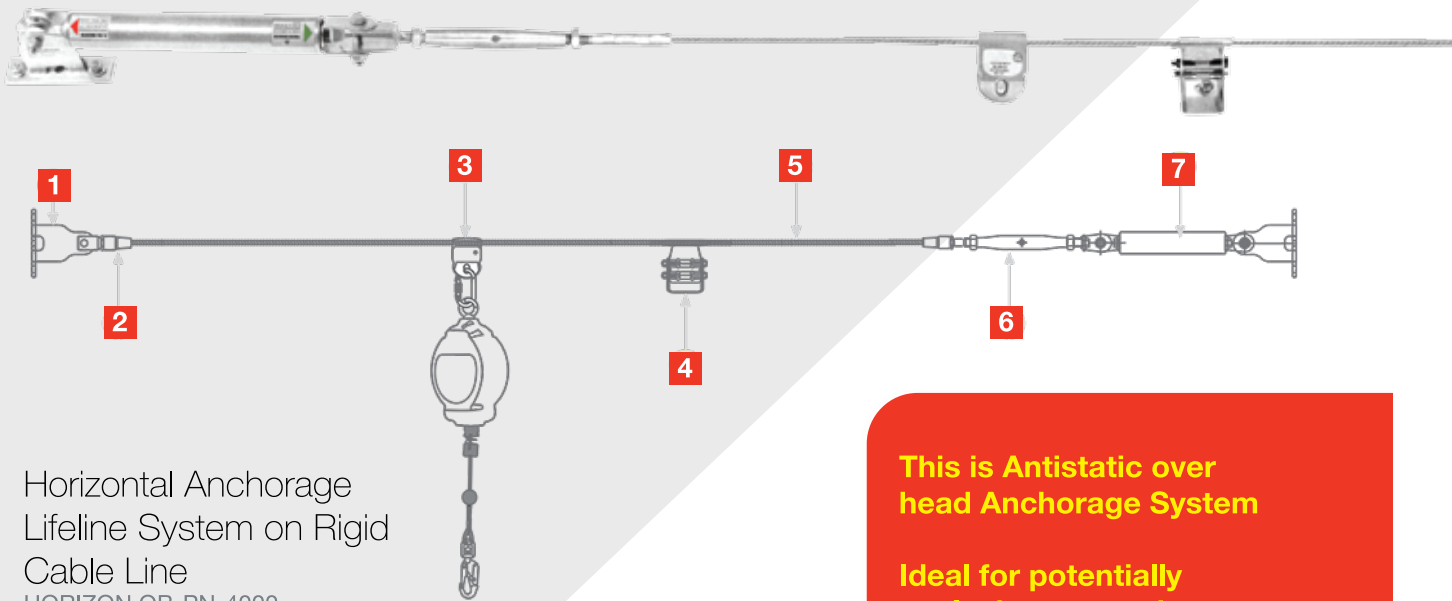
QB-PN-801-40

Winch QB-PN-801-40

- To be used for raising or lowering of personnel or material into confined spaces
- Equipped with bolting fixture for robust fitting on to the winches PN 801(40)
- Maximum lifting load capacity as per EN 1496 : 135 kgs
- Maximum lifting load capacity as per machinery directive 2006/42/EC : 250 kgs
- Consists of Screw Locking Karabiner (PN 112) as a Connector
- Conforms to EN 1496:2006 (Class A)
- To be used with a Retractable Fall Arrester when deployed for raising or lowering a person
- Can also be fitted to Quebee K-Pod PN 900
- Also available with the SS Wire Rope instead of GI. Respective references with SS Wire Rope shall be PN 801(40)SS

Ref. No	Length
QB-PN-801-20	20 mtr
QB-PN-801-40	40 mtr

FALL PROTECTION



Horizontal Anchorage
Lifeline System on Rigid
Cable Line
HORIZON QB-PN-4000

Tested to: EN795 Type C

System Specifications:

Horizon PN-4000 provides permanent anchorage to a user who has to constantly move along a horizontal track. It comprises of a Stainless Steel Wire Rope grade 316 of 8mm dia running all along the horizontal track. It is installed at the ends using special Universal Extremity Plates. The intermediate brackets hold the wire in position all along the length of the wire, and are installed at intervals of 10m to 15mtrs. The line is maintained in tension with the help of Tensioner at one end, while the other end has a swage less termination on to the Universal Extremity plate.

The Stainless Steel Carriage Shuttle connects the user to the line with the help of a lanyard/ retractable block, and moves smoothly without interruption along the entire length of the Horizontal line and also through the Intermediate Brackets, ensuring 100% anchorage to the user at all times.

The line also has a Shock Absorber at one end which reduces the impact of fall both on the user as well as on the extremities.

The system also has an inspection name plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records. Two stainless steel cable ties are used to fasten the system name plate to the structure. At time of installation, the relevant details are punched on the plate by number punch. The revalidation dates are punched each year on the plates after inspection and revalidation.

The system is versatile and can be installed on walls, floors, ceilings, as well as on roof tops, using the same components by just altering the orientation of the intermediate brackets.

Horizon PN-4000 has the unique distinction of being certified by Sira for ATEX to comply with use in potentially explosive atmosphere (as per Potentially Explosive Atmospheres Directive 94/9/EC), and conforms to Norms EN 13463-1:2009, and EN 13463-5:2003. The system is certified to be intrinsically safe, hence is an ideal choice for use in Industries like Petroleum / Petro-Chemical Plants without fear of causing explosion due to any sparking. The system can also be used in Truck Loading / unloading, Advertisement bill boards, Industrial cranes, Oversized machines, Reactors, Turbines etc.

The system is Tested to EN-795 Type C & ATEX approved & for use in potentially explosive areas.

This is Antistatic over head Anchorage System

Ideal for potentially explosive atmosphere





Sr.No.	Name of Component	Ref. No. of Component	Description
1	Universal Extremity Plate	PN-4000 (09)	Material: Stainless steel 316
2	Cable Extremity	PN-7000 (03)	Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire Material: Stainless steel 316 Feature: Swageless termination
3	Carriage body	PN-4000 (08)	Material: Stainless steel 316 Feature: Friction free movement
4	Intermediate	PN-4000 (10)	Material: Stainless steel 316 Recommended Installation every 10m
5	Wire Rope	PN-9XXXS (where XXX is the length of the wire rope in meters)	Material: Stainless steel 316 Diameter: 8mm Construction: 7x19
6	Tensioner	PN-4000 (03)SL	Regulates tensioning of the cable. Material: Stainless Steel 316 Feature: Swageless termination
7	Shock Absorber	PN-4000 (07)	Material: Stainless steel 316



Universal Extremity Plate
QB-PN-4000 (09)



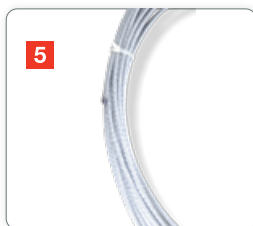
Cable Extremity
QB-PN-7000 (03)



Carriage body
QB-PN-4000 (08)



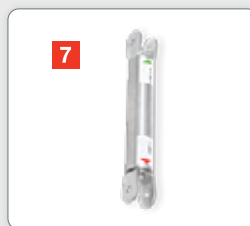
Intermediate
QB-PN-4000 (10)



Wire Rope
QB-PN-9XXXS



Tensioner
QB-PN-4000 (03)SL



Shock Absorber
QB-PN-4000 (07)



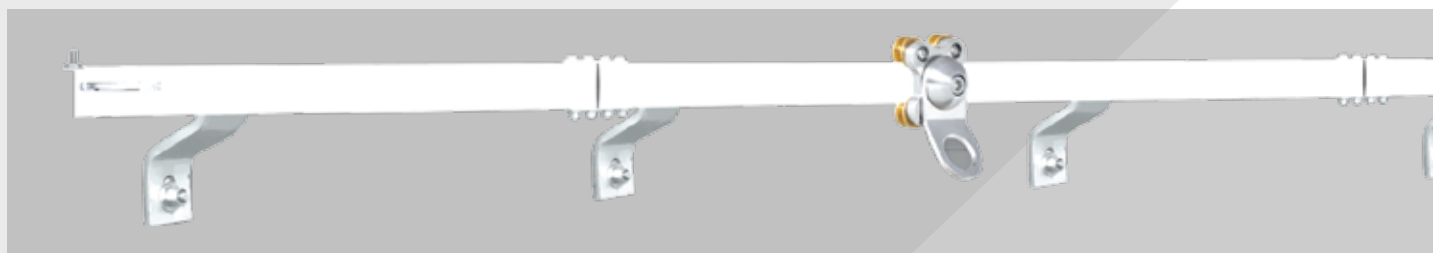
Cable Extremity with Swaged End
QB-PN-4000 (15)



Wheel Type Carriage Body
QB-PN-4000 (17)

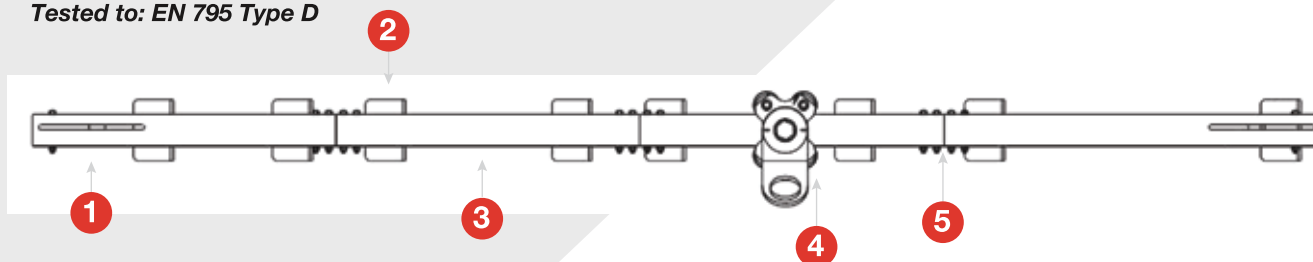


Tensioner
QB-PN-4000 (03)



Horizontal Anchorage Line System on Rigid Aluminium Rail HORIZON QB-PN-5000

Tested to: EN 795 Type D



System Specifications:

This anchorage rail system Tested with EN795 Type D and is designed to provide safe anchorage for horizontal movement while working at height. The worker wears a full body harness and uses a lanyard (or other connector compliant with EN354 / EN355) to connect to the eye of the trolley, which glides along the aluminium horizontal rail. For overhead applications a self retractable fall arrester can be used to provide the most effective means of fall protection.

The Horizon PN-5000 can be fitted on to floors, wall and on ceilings using special mounting brackets. The wall mounting brackets can be flushed along the surface of the wall. Alternatively, special mounting brackets which allow a recess between the rail and the wall may be used so as not to interrupt underlying structures like pipes and wires.

The rail is available in straight as well as curved forms (for corners and bends). The specially fixed junctions between different lengths of the rail allow an extremely smooth movement of the trolley.

This system can be used on flat roofs, steep roofs, working platforms on masts and buildings, hangars, shipyards, cranes, industrial plants etc. The system also has an inspection name plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records.



Wall Mounted Installation
(with Recess)



Wall Mounted Installation
(Flush Type)



Floor Mounted
Installation



Ceiling Mounted
Installation

Installations Using Different Types of Mounting Brackets





Sr. No.	Name of Component	Ref. No. of Component	Description
1	Alu. Rail Extremity	QB-PN-5000 (02)	Material: Extruded Aluminium Alloy Length: 3m
2A	Wall Mounting Bracket Flush Type	QB-PN-5000 (04)	Material: Stainless Steel 316 (for flush type wall mounting)
2B	Wall Mounting Bracket with Recess	QB-PN-5000 (05)	Material: Stainless Steel 316 (for wall mounting with recess)
2C	Ceiling Mounting Bracket	QB-PN-5000 (06)	Material: Stainless Steel 316 (for Ceiling mounting)
3	Alu. Rail Intermediate	QB-PN-5000 (01)	Material: Extruded Aluminium Alloy Length: 3m
4A	Trolley For Wall	QB-PN-5000 (12)	Material: Stainless Steel 316 Trolley with Brass wheels which provide frictionless movement
4B	Trolley For Ceiling/ Floor	QB-PN-5000 (13)	Material: Stainless Steel 316 Trolley with Brass wheels which provide frictionless movement
5	Junction	QB-PN-5000 (08)	Used to connect two rails together Material: Stainless Steel 316
6	Mounting Nut	QB-PN-5000 (03)	Material: Stainless Steel 316 to connect the rail to the mounting bracket
7A	Curved Alu. Rail (Outer Wall Mounted)	QB-PN-5000 (09A)	Material: Extruded Aluminium Alloy
7B	Curved Alu. Rail (Inner Wall Mounted)	QB-PN-5000 (09B)	Material: Extruded Aluminium Alloy
7C	Curved Alu. Rail (Ceiling/Floors)	QB-PN-5000 (10)	Material: Extruded Aluminium Alloy



Alu. Rail Extremity
QB-PN-5000 (02)



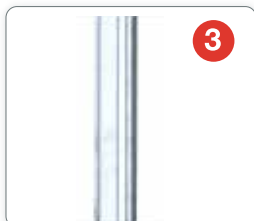
Wall Mounting
Bracket Flush
QB-PN-5000 (04)



Wall Mounting Bracket
with Recess
QB-PN-5000 (05)



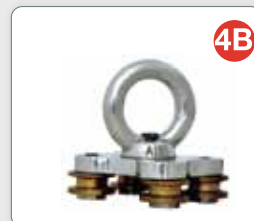
Ceiling Mounting Bracket
QB-PN-5000 (06)



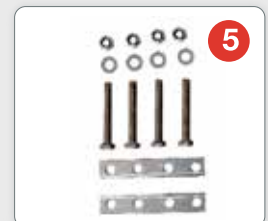
Alu. Rail Intermediate
QB-PN-5000 (01)



Trolley for Wall
QB-PN-5000 (12)



Trolley for Ceiling / Floor
QB-PN-5000 (13)



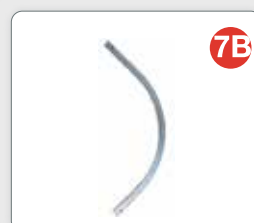
Junction
QB-PN-5000 (08)



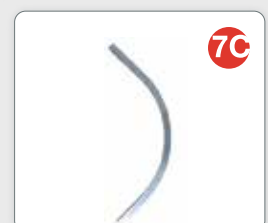
Mounting Nut
QB-PN-5000 (03)



Curved Alu. Rail
(Outer Wall Mounted)
QB-PN-5000 (09A)



Curved Alu. Rail
(Inner Wall Mounted)
QB-PN-5000 (09B)



Curved Alu. Rail
(Ceiling / Floors)
QB-PN-5000 (10)



Vertical Anchorage Line System on Rigid Cable Line

VERTEX QB-PN-7000

Tested to: EN353-1:2012

System Specifications

Conforming to the Norm EN 353-1:2012 this vertical Fall Arrest system is an integrated solution to arrest the fall of a user who has to constantly climb up & down a ladder.

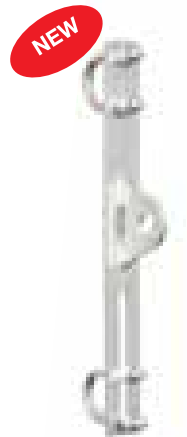
The Unique Feature of this system is a permanent installed Stainless Steel Shock Absorber at the top of the line which offers distinct advantage over the textile absorber used in other lines in term of UV degradation and resistance to harsh climate Conditions. Also the Shock Absorber is constructed of unique design that helps in easy installation of the system.

The Vertical Anchorage Line is made of Stainless Steel wire rope & is maintained in the rigid position by the use of 2 mounting brackets-one at the top & one at the bottom.

The Stainless-steel Rope Grab is directly connected to the user without any additional lanyard.

To maintain the rigidity & high tension in the anchorage line, a screw type mechanical tensioner is provided at the end of the anchorage line at the bottom, connecting it to the lower mounting bracket. The Tensioner is provided with a unique tension indicator which helps ensure appropriate tension is attained, and maintained in the line.

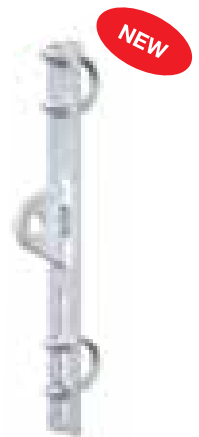
The system also has an Inspection Name Plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records.



QB-PN-7000-13

Extremity Plates for Two Ladder Rungs

Extremity plate used to install a vertical anchor line made of SS wire rope installed on a ladder with U-bolts & nylock nuts. Fixing on two rungs provides better structural strength to the system

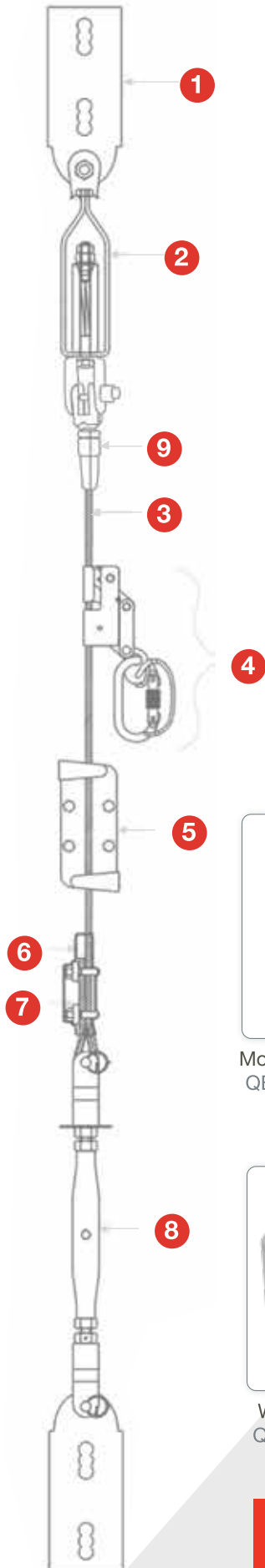


QB-PN-7000-13-EC

Ref.	Material	Finish	Minimum Breaking Strength	Weight	Tested to
QB-PN-7000-13	Stainless Steel	Polished	23kN	1.11kgs ±0.005 Kgs	EN 795 Type A
QB-PN-7000-13-EC	Alloy Steel	Hot dip Galvanized	23kN	1.10kgs ±0.005 Kgs	EN 795 Type A



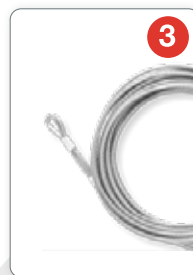
Sr. No.	Name of Component	Ref No of Component	Qty	Description
1	Mounting Bracket	QB-PN-7000-01	2	Material: Stainless Steel 316 Breaking Strength> 23kN Tested to EN 795 Type A
2	Shock Absorber	QB-PN-7000-02	1	Material: Stainless Steel 316 Limits the impact of force in the event of fall to less than 6kN
3	Wire Rope (with one end having a swaged Loop)	QB-PN 9XXXSL (Where XXX is the length of the wire rope in meters)		Material: Stainless Steel 316 Diameter: 8mm Construction: 7X19
4	Rope Grab	QB-PN-RG-02112	1	Material: Stainless Steel 316; 1 No. Works on stainless steel wire rope
5	Intermediate	QB-PN-2001-04		Material: Stainless Steel 316 Recommended Installation - 1 No. at every 10m
6	Wire Rope Cap	QB-PN-7000-12	2	Material: Aluminium Alloy
7	Set of U-Bolts & Thimbles	QB-PN-6000-01	1 Set	U-Bolts: Qty- 2 nos Material: Stainless Steel 316 Thimbles: Qty- 1 no Material: Galvanized Steel
8	Tensioner	QB-PN-7000-05	1	Regulates tensioning of the cable Material: Stainless Steel 316
9	Cable Extremity	QB-PN-7000 (03)	1	Allows crimping of the cable wire at the desired length, and eliminates danger of any loose wire Material: Stainless steel 316 Feature: Swageless termination



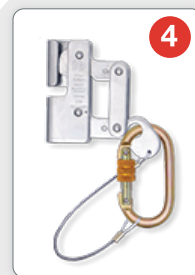
Mounting Bracket
QB-PN-7000-01



Shock Absorber
QB-PN-7000-02



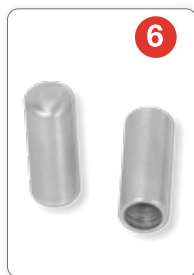
Wire Rope (with one end having a swaged loops)
QB-PN-9XXXSL



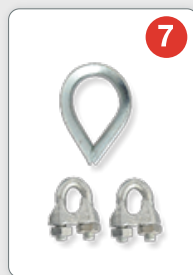
Rope Grab
QB-PN-RG-02112



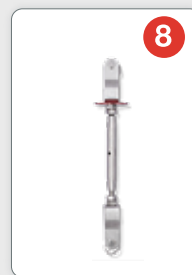
Intermediate
QB-PN-2001-04



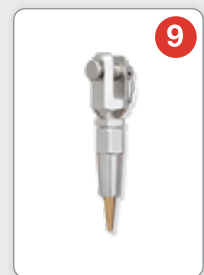
Wire Rope Cap
QB-PN-7000-12



Set of 2 U-bolts and
1 Thimbles
QB-PN-6000-01



Tensioner
QB-PN-7000-05



Cable Extremity
PN-7000 (03)

* Also supplied with carbon steel hot dip galvanized mounting brackets to make the system economical PN 7000 EC (01)

FALL PROTECTION



Vertical Anchorage Line System on Rigid Aluminium Rail

VERTEX QB-PN-8000

EN353-1:2012

System Specifications



This Vertical fall Arrest Anchorage system (Conforming to **EN 353-1:2012**) is an integrated fall arrest solution made of a vertical aluminium alloy guide rail over which glides a guided-type fall arrest trolley.

The line is constructed by attaching the aluminium rail intermediates of length 3 mtrs. in series using a junction to connect them to each other, and rung clamps to affix them to the ladder rungs. The trolley moves up and down on the line accompanying the user who is connected to it with an auto-locking steel karabiner.

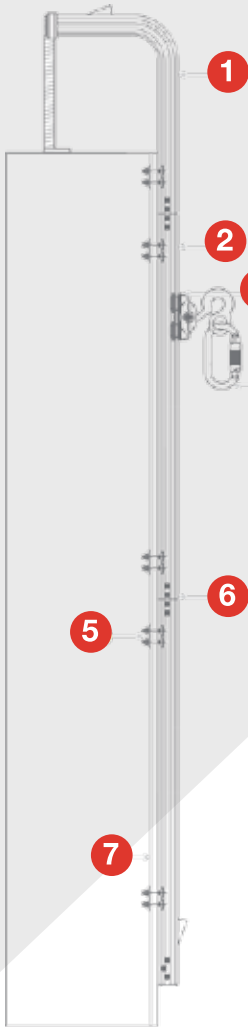
In the event of a fall, the trolley which is inbuilt with shock absorption feature, immediately locks over the rail, thus arresting the fall. Also, while not in use, the uni-directional locking system of the trolley prevents it from sliding down on its own.

The rail comes with an extension arm that curves at the ladder-end over the working platform. This allows the climbers to be connected with the trolley even at the ladder termination, ensuring complete safety.

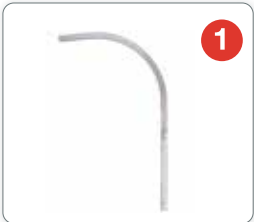
The bottom most section is the aluminium rail extremity which is equipped at the end with a lock that prevents the trolley from moving out of the rail.

The system also has an inspection name plate which is installed on the first rung of the ladder for identification, traceability and maintenance of inspection records. One stainless steel cable ties are used to fasten the system name plate to the structure. At time of installation, the relevant details are punched on the plate by a number punch. The revalidation dates are punched each year on the plates after inspection and revalidation.

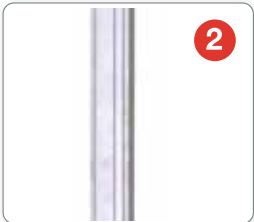
This system can be used on tele-communication towers, radio and TV masts, power supply and hydroelectric installations, wind power facilities, construction, chimney and industrial plants, buildings and facades, crane installations, shafts and manholes, aircraft hangars and for loading/ unloading of trains and vehicles, petrochemical plants, on-shore and off-shore oil rigs, and shipbuilding.



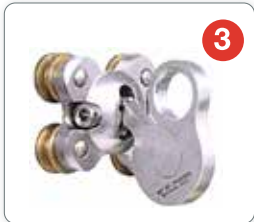
Sr. No.	Name of Component	Ref. No. of Component	Description
1	Aluminium Extension	QB-PN-8000-02	Material: Extruded Aluminium Alloy Length: 1.5m
2	Aluminium Rail Intermediate	QB-PN-5000-01	Material: Extruded Aluminium Alloy Length: 3m
3	Vertical Trolley	QB-PN-8000-01	Material: Stainless Steel 316 Trolley with brass wheels which provide frictionless movement
4	Karabiner	QB-PN-111	Quarter Turn Auto-locking steel karabiner
5	Rung Clamp	QB-PN 8000-03	Material: Stainless Steel 316 Help to clamp the system onto the underlying ladder
6	Junction	QB-PN-5000-08	Used to connect two rails together Material: Stainless Steel 316
7	Alu. Rail Extremity	QB-PN-5000-02	Material: Extruded Aluminium Alloy Length: 3m



Alu. Extension
QB-PN-8000-02



Alu. Rail Intermediate
QB-PN-5000-01



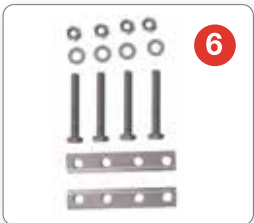
Vertical Trolley
QB-PN-8000-01



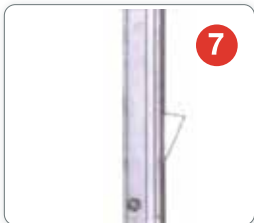
Karabiner
QB-PN-111



Rung Clamp
QB-PN-8000-03



Junction
QB-PN-5000-08



Alu. Rail Extremity
QB-PN-5000-02

Vertical Anchorage Line System on Rigid Aluminium Rail

VERTEX QB-PN-9000

EN353-1:2012

System Specifications

This is a complete fall protection ladder system which consists of hot dipped galvanized steel ladder rungs over which is fixed the vertical anchorage rail made of aluminium alloy. **This system is an ideal choice for use where there are no pre-fabricated ladders or climbing structures available for climbing and can be fitted over various structures using different types of fasteners. The system conforms to EN353-1:2012**



The rungs of the ladder, made of galvanized steel, are fitted at a suitable distance from the underlying structure/ profile to allow enough foot space. The rungs also have a grooved surface that allows a slip-free grip while climbing. The aluminium anchorage rail fitted on to the center of the rungs of the ladder is smooth and allows the guided type fall arrest trolley to glide effortlessly over its length. This trolley moves up and down accompanying the user who is connected to it with the help of an auto-locking karabiner. The trolley is made of stainless steel and has wheels made of brass, making the system highly corrosion resistant and extremely smooth in working. In the event of a fall, the trolley immediately locks over the rail, thus arresting the fall. Also, while not in use, the uni-directional locking system of the trolley does not allow it to fall freely down the rail. The system comes with an extension arm that curves at the ladder-end over the working platform. This allows the climbers to be connected with the trolley even at the ladder termination, ensuring complete safety. The bottom most section is the aluminium rail extremity which is equipped at the end with a lock that prevents the trolley from moving out of the rail. **This system can be used on telecommunications towers, radio and TV masts, power supply and hydroelectric installations, wind power facilities, construction, chimney and industrial plants, buildings and facades, crane installations, shafts and manholes, aircraft hangars and for loading/unloading of trains and vehicles, petrochemical plants, on-shore and off-shore oil rigs, shipbuilding.**

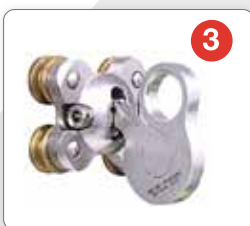
Sr. No.	Name of Component	Ref. No. of Component	Description
1	Aluminium Extension	QB-PN-8000-02	Material: Extruded Aluminium Alloy Length: 1.5m
2	Aluminium Rail Intermediate	QB-PN-9000-03	Material: Extruded Aluminium Alloy Length: 3m
3	Vertical Trolley	QB-PN-8000-01	Material: Stainless Steel (316) Trolley with brass wheels which provide frictionless movement
4	Karabiner	QB-PN-111	Quarter Turn Auto-locking steel karabiner
5	Ceiling Mounting Bracket	QB-PN-5000-06	Material: Stainless Steel 316 Help to mount the ladder on to the underlying structure
6	Junction	QB-PN-5000-08	Used to connect two rails together Material: Stainless Steel 316
7	Aluminium Rail Extremity	QB-PN-9000-02	Material: Extruded Aluminium Alloy Length: 3m
8	Ladder Rung Assembly	QB-PN-9000-01	Ladder Rung Material: Galvanized Steel Fasteners: Qty. 2 Nos, Material: Galvanized Steel
9	Mounting Nut	QB-PN-5000-03	Material: Stainless steel 316 to connect the rail to the mounting bracket



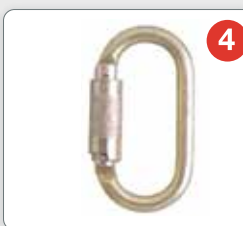
Alu. Extension
QB-PN-8000-02



Alu. Rail Intermediate
QB-PN-9000-03



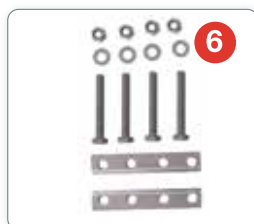
Vertical Trolley
QB-PN-8000-01



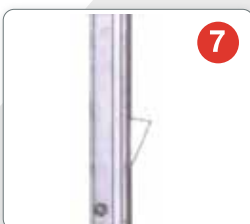
Karabiner
QB-PN-111



Ceiling Mounting
Bracket QB-PN-5000-06



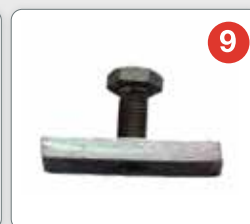
Junction
QB-PN-5000-08



Alu. Rail Extremity
QB-PN-9000-02



Ladder Rung Assembly
QB-PN-9000-01



Mounting Nut
QB-PN-5000-03

Selection of Protective footwear



Protective footwear is developed for a specific end user, whether that person is a electrician or general industry worker. Choosing the proper safety footwear can be as easy as breaking down what is most important to keep safe and comfortable on the job.

The key features of a safety shoe are:

- Steel toe cap capable of withstanding the impact of a wedge-shaped steel 20 kg weight falling vertically from a height of one meter
- Steels plates molded within the soles to prevent penetration from nails and other sharp objects

Other Features relate to the shoe sole are - slip resistance (forward movement), grip (backward movement), anti-static property, resistance to temperature, resistance to oil and resistance to chemicals such as acids and alkalis

In terms of hygiene features, upper materials must pass a certain level of water resistance, breathability of materials and lining materials that absorb perspiration and reduce odor. In order to provide comfort, safety footwear should have wide design on the toe area with foot and arch support, flexibility, underfoot cushioning (Insole) and heel impact absorption

Safety footwear must be durability and can be achieved by using relevant materials for different footwear

- Leather safety shoes/boots upper are mainly made of cow or buffalo hide and sole from nitrile rubber, latex, PU or TPU
- Gum boots/wellington boots are made from PU, rubber, nitrile PVC, virgin PVC or recycle PVC
- Outer soles are usually injected directly on to the upper so that a near perfect bonding is achieved, minimizing the chance of the sole separation and fluid or particle ingress

PROTECTIVE FOOTWEAR



Quebee new innovation range of industrial PVC Boots is the most comfortable and durable that you can find in the market. Our PVC footwear surpasses expectations for chemical resistant, slip resistant, safety protection and most importantly comfort. Quebee research in industry specific safety demands, and our expertise in chemical research, ensures that each and every product we offer is designed to meet a specific set of safety requirements and standards.

QB Safety PVC Boots

- ✓ Sole pattern effectively channels out debris
- ✓ Kick off lug for easy removal
- ✓ Roomy toe and metatarsal area for extra comfort
- ✓ Cut off bands reduce chafing when boot is cut down

- Virgin PVC material
- With steel toe cap and steel midsole
- Sole pattern effectively channels out debris
- Kick off lug for easy removal
- Roomy toe and metatarsal area for extra comfort
- Wider sloping malleolar zone provide easy donning & squatting
- Cut off bands reduce chafing when boot is cut down
- High: 360 to 375mm
- Meets CE EN20345:2004 requirement

QB-102-21-B/Y



QB-102-21-Y/B



QB Economy PVC Boots

- Sole pattern effectively channels out debris
- Kick off lug for easy removal
- Roomy toe and metatarsal area for extra comfort
- Wider sloping malleolar zone provide easy donning and squatting
- Cut off bands reduce chafing when boot is cut down
- Meets CE EN ISO20345:2004 requirement

QB-102-23-B/B



PROTECTIVE FOOTWEAR



Wayne Manufacturing is a specialist converter of rubber and plastic raw materials into moulded and extruded products used extensively in the agricultural, automation, construction, footwear and mining industries. The range consists of both Standard and Safety Heavy Duty Boots and lightweight boots for men and women. Safety gumboots are made to the quality standards of Europe (EN), Canada, Australia and South Africa. All Wayne boots are design to provide foot protection in cold, damp or wet conditions and offer protection from a wide range of chemicals.

Wayne Inyati Heavy-Duty PVC / Nitrile Safety Gumboots WY-1278N

- Suitable for petroleum, mining, construction, chemical and heavy industry
- Oil, fats and chemical resistant properties
- With Steel toe cap
- Color: Yellow upper, Black sole
- Size: 5 to 12
- Height: 39cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC/ Nitrile Safety Gumboots WY-1378N

- Suitable for petroleum, mining, construction, chemical and heavy industry
- Oil, fats & chemical resistant properties
- Color: Yellow upper, Black sole
- Size: 5 to 12 (No half size)
- Height: 38cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC / Nitrile Safety Gumboots WY-1310N

- Suitable for petroleum, mining, construction, chemical and heavy industry
- Oil, fats & Chemical resistant properties
- With Steel toe cap
- Color: Black upper, Yellow sole
- Size: 5 to 12 (No half size)
- Height: 39cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC/ Nitrile Safety GumBoots WY-1370N

- Suitable for petroleum, mining, construction, chemical and heavy industry
- Oil, fats & chemical resistant properties
- Color: Black upper, Yellow sole with steel toe cap
- Size: 5 to 12 (No half size)
- Height: 38cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC / Nitrile Safety Gumboots WY-1277N

- Suitable for food, chemical and petroleum industry
- Oil, fats & chemical resistant properties
- With steel toe cap
- Color: White upper, White sole
- Size: 5 to 12 (No half size)
- Height: 39cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC/ Nitrile Safety Gumboots WY-1377N

- Suitable for food, petroleum industries and area where greases, fats, oils & acids are present
- With steel toe cap
- Color: White upper, White sole
- Size: 5 to 12 (No half size)
- Height: 38cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification





Wayne Inyati Heavy-Duty PVC / Nitrile Safety Gumboots WY-1286N

- Suitable for mining, construction, petroleum, chemical and heavy industry
- Oil, fats & chemical resistant properties
- With steel toe cap and steel mid sole
- Color: Black upper, Toffee sole
- Size: 5 to 12 (No half size)
- Height: 39cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Miners PVC / Nitrile Safety Gumboots WY-1863N

- Suitable for mining, construction, chemical & petroleum industry
- Oil, fats & chemical resistant properties
- Lace-up
- With steel toe cap
- Color: Black upper, Toffee sole
- Size: 6 to 12 (No half size)
- Height: 17cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Inyati Heavy-Duty PVC / Nitrile Safety Gumboots WY-1386N

- Suitable for petroleum, mining, construction, chemical and heavy industry
- With steel toe cap and steel mid sole
- Color: Black upper, Toffee sole
- Size: 5 to 12 (No half size)
- Height: 38cm
- Compliance: EN ISO 20345, SABS & AS/NZ Specification



Wayne Duralight Economy PVC / Nitrile Gumboots WY-1020

- Suitable for food industries, petroleum industries and area where greases, fats, oils & acids are present
- Color: White upper, White sole
- Size: 6 to 12 (No half size)
- Height: 37cm



Safety Footwear

Wayne Duralight Economy PVC Gumboots WY-1090

- Suitable for light industry, agriculture and general construction
- Oil and acid resistant properties
- Color: Green upper, Black sole
- Size: 6 to 12 (No half size)
- Height: 37cm



X2 Walkmaster Low-cut Lace-up Safety Shoe WM-SS-LA3-X2

- Steel toe cap absorbing 200 joules of kinetic energy
- Steels midsole to prevent penetration from nails and other sharp objects
- Slip & abrasion resistance
- Anti-static
- Resistance to temperature
- Oil resistant
- Shock resistant
- **Compliance:** CE EN ISO20345:2011, SS513:2005



PROTECTIVE FOOTWEAR



Vista Laced-up Safety Shoes

QB-K8920

- Black buffalo grain tango leather
- Dual density PU sole
- Black eva insole
- Black non woven inner lining
- Steel toe cap
- Steel midsole
- Compliance: CE EN ISO 20345:2011, SS513:2005



Vesta Slip-on Safety Shoes

QB-S8600

- Black buffalo grain tango leather
- Dual density PU sole
- Black eva insole
- Black non woven inner lining
- Steel toe cap
- Steel midsole
- Compliance: CE EN ISO 20345:2011, SS513:2005



Xenic Lace-up Ankle Boots

QB-K8801

- Black buffalo grain tango leather
- Dual density PU sole
- Black eva insole
- Black non woven inner lining
- Steel toe cap
- Steel midsole
- Compliance: CE EN ISO 20345:2011, SS513:2005



Xenia Zip-up Ankle Boots

QB-S8811

- Black buffalo grain tango leather
- Dual density PU sole
- Black eva insole
- Grey non woven inner lining
- Steel toe cap
- Steel midsole
- Compliance: CE EN ISO 20345:2011, SS513:2005



Xenon Slip-on Rigger Boots

QB-K8703-B

- Black buffalo grain tango leather
- Dual density PU sole
- Black eva insole
- Black non woven inner lining
- Steel toe cap
- Steel midsole
- Compliance: CE EN ISO 20345:2011, SS513:2005



Vinas Anti-slip Lightweight Shoe

QB-S7005

- Composite toe cap absorbing 200 joules of kinetic energy
- LIKEKevlar Midsole to prevent nail penetration and other sharp objects
- Anti-slip outsole
- Anti-static
- Light weight @500 to 800 gm.
- Oil resistant
- Shock absorption
- Compliance: CE EN ISO 20345:2011, SS513:2005



Selection of Absorbents Materials



3 Main types of absorbents:

- **Petroleum Absorbents** - For use with petroleum-based products
- **Chemical Absorbents** - For use with chemical-based products
- **Maintenance Absorbents** - For use with water-based products
- **Petroleum Absorbents** are designed to absorb hydrocarbons such as oil, gasoline, diesel fuel and kerosene while repelling water.



These products float in water, even when it is fully saturated

Chemical Absorbents can safely absorb hazardous fluids, including: acids, caustics, solvents, toxic liquids and aggressive chemicals like hydrofluoric acid. They are mistake proof as they can also absorb water and hydrocarbons

- **Maintenance Absorbents** will absorb oil, water, glycols and other non-aggressive fluids. It is perfect for your maintenance repair operations or place under machine to absorb coolant and oil leak

Absorbents range comes in different formats:

- Folded version
- Pads version
- Rolls version
- Mini-booms version
- Pillows version
- Particulates version



QB-KIT-CHEM-1

Contents:

- 1 Roll folded chemical sorbent
- 25 pcs chemical sorbent pads
- 1pc Chemical goggle
- 1pr Chemical gloves
- 1pc LC-EMERGENCY-LABEL
- 1pc QB-EMERGENCY-BAG

Absorption capacity :

- 35 liters

Dimension :

- 20"(H) x 15"(W) x 5.5"(D)



Quebee Chemical Sorbent Spill Control Kit is the perfect solution for emergency response flexibility and mobility. With all the features of folded sorbent, they can be used with most hazardous liquids, ideal for spills up to 25 gallons.

QB-KIT-CHEM-2

Contents:

- 2 rolls folded chemical sorbent
- 25 pcs chemical sorbent pads
- 1 pc disposable coverall
- 1 pc safety chemical goggle
- 1 set half mask respiratory w/ cartridges
- 1 pair chemical gloves
- 3 pcs disposable bags and cable ties
- 1 pair booties
- 1 yellow mobile cart w/Quebee logo
- 1 copy hazardous spill clean-up manual



Quebee Spill Response PPE Kit comes completed with folded chemical sorbent for flexibility, mobility and quick response. It can be used with most hazardous chemicals and is ideal for spills up to 5 gallons.

QB-KIT-CHEM-3

Contents:

- 1 roll folded chemical sorbent
- 1 pc disposable coverall
- 1 pc safety chemical goggle
- 1 set half mask respiratory w/cartridges
- 1 pair chemical gloves
- 1 pair chemical resistant PVC boots
- 1 disposable bag and cable ties
- 1 plastic container with handle



Chemical Sorbent Spill Control Kit is the perfect solution for emergency response flexibility and mobility. Ideal for spills up to 25 gallons.

QB-KIT-CHEM-4

Contents:

- 2 rolls of Quebee chemical folded sorbent
- 25 pcs Quebee chemical sorbent pads
- 1 pc Quebee MicroPz disposable coverall
- 1 pc safety chemical goggle
- 1 set half mask respiratory with cartridges
- 1 pair chemical gloves
- 3 pcs disposable bags and cable ties
- 1 pair booties
- 1 yellow mobile cart with Quebee logo
- 1 copy hazardous spill clean-up manual





Quebee Chemical Sorbents

Chemical Absorbent Folded Roll

QB-CR-9000-XLH9118

- Size : 11cm x 18m x 3mm
- Capacity : 119 liters/case
- Packing : 3 rolls/case



Chemical Absorbent Pads

QB-CD-9000-PSY91401

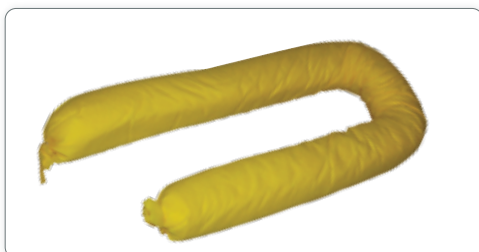
- Size : 40cm x 50cm x 4mm
- Capacity : 1145 liters/case
- Packing : 100 pcs/case



Chemical Absorbent Boom

QB-CB-9000-Y781

- Size : 7.6cm x 1.2m
- Capacity : 78 liters/case
- Packing : 12pcs/case



Chemical Extra Perfo- rated Absorbent Rolls

QB-CR-9000-XLH4020

- Size : 40cm x 18m x 3mm
- Capacity : 119 liters/case
- Packing : 1roll/case



Chemical Absorbent Pillow

QB-CP-9000-Y425

Features:

- Size : 25cm x 35cm
- Capacity : 72 liters/case
- Packing : 20pcs/case



Quebee Petroleum Sorbents

Petroleum Absorbent Pads

QB-PD-9100-PS1401

- Size : 40cm x 50cm x 4mm
- Capacity : 145 liters/case
- Packing : 100pcs/case



Petroleum Absorbent Folded Roll

QB-PR-9100-XL118

- Size : 11cm x 18m x 3mm
- Capacity : 119 liters/case
- Packing : 3 rolls/case



Petroleum Absorbent Roll

QB-PR-9100-PS2402

- Size : 80cm x 30m x 4mm
- Capacity : 153 liters/case
- Packing : 1roll/case



Quebee Universal Sorbents

Universal Absorbent Folded Roll

QB-UR-9200-XL9118

- Size : 11cm x 18m x 3mm
- Capacity : 119 liters/case
- Packing : 3rolls/case





3M Chemical Sorbents

Are powerful enough to handle acids (including hydrofluoric acid), bases, coolants and most other hazardous fluids. They are a safer choice because they resist reaction with most hazardous chemical. They will also absorb petroleum based fluids, non-aggressive chemicals and aqueous based solutions, reducing the need to stock several different sorbent types for emergency response.

3M™ offers many different configurations:

- Sorbent-folded
- Sorbent-folded spill kits
- Pads
- Rolls
- Spill response packs
- Pillows
- Booms
- Particulate

Chemical Sorbent Folded Spill Kit, Chemroll, 5gal 3M-C-SKFL5

- Approx. Dimension: 5" x 26'
- Sorbent Capacity: 15 gallons/case
- Packing: 3 rolls/case



Chemical Sorbent Folded Spill Kit, 31gal 3M-C-SKFL31

- Sorbent Capacity: 31 gallon drum spill kit
- Drum Capacity: 20 gallon drum
- Packing: 1 kit



Chemical Sorbent Spill Response Pack 3M-SRP-CHEM

- Sorbent Capacity: 10.5 gallons/case
- Packing: 3 packs/case



Chemical Sorbent Folded High capacity 3M-C-FL550DD

- Approx. Dimension: 5" x 50'
- Sorbent Capacity: 31.5 gallons/case
- Packing: 3 boxes/case



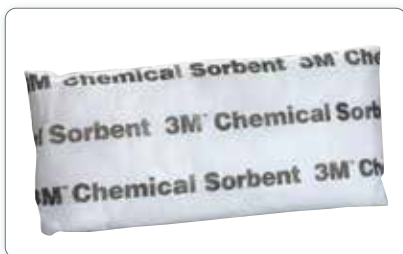
P-110 Chemical Sorbent Pads 3M-P-110

- Approx. Dimension: 11" x 13"
- Sorbent Capacity: 17 gallons/ case
- Packing: 50 pads/ dispenser, 4 dispenser/ case



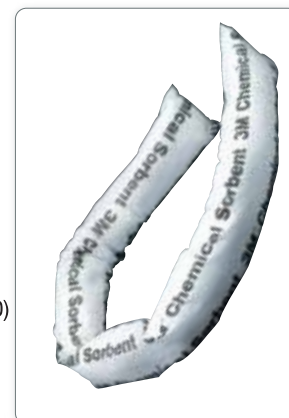
Chemical Sorbent Pillows 3M-P-300

- Approx. Dimension: 7" x 15"
- Sorbent Capacity: 8 gallons/case
- Packing: 16 pillows/case



Chemical Sorbent Mini Booms 3M-P-200, P3M-P-208, 3M-P-212

- Approx. Dimension: 3" Diameter x 4' (P-200)
3" Diameter x 8' (P-208)
3" Diameter x 12' (P-212)
- Sorbent Capacity: 12 gallons/case (P-200)
12 gallons/case (P-208)
12 gallons/case (P-212)
- Packing: 12 Mini-booms/case (P-200)
6 Mini-booms/case (P-208)
4 Mini-booms/case (P-212)



Chemical Sorbent Pads High capacity 3M-C-PD914DD

- Approx. Dimension: 9 1/4" x 14 1/2"
- Sorbent Capacity: 23.5 gallons/case
- Packing: 25 pads per dispenser box, 6 boxes/case





3M Petroleum sorbents

Are used extensively for controlling, cleaning up, and recovering oil and petroleum-based liquids from effluent discharge, streams, ponds, lakes, rivers, and other bodies of water. They are also used for in-plant spills under leaking equipment and machinery, dust-free and contain no abrasive granules that can damaged expensive equipment. That's because they're made from an innovative microfiber material which contains millions of tiny pockets that are able to absorb and hold petroleum-based liquids.

3M™ offers many different configurations:

- Folded
- Mini-booms
- Mini-pillows
- Pads
- Particulate
- Booms

Petroleum Sorbent Spill Kit, 31gal

3M-P-SKFL31

- Sorbent Capacity: 31 gallon drum spill kit
- Drum Capacity: 20 gallon
- Packing: 1 kit



Petroleum Sorbent Folded Spill Kit, Petrol, 5gal 3M-P-SKFL5

- Approx. Dimension: 15"x 26"
- Sorbent Capacity: 15 gallons/case
- Packing: 3 rolls/case



Petroleum Sorbent Folded, High capacity 3M-P-FL550DD

- Approx. Dimension: 5" x 50"
- Sorbent Capacity: 31.5 gallons/case
- Packing: 3 boxes/case



Petroleum Sorbent Spill Response Pack 3M-SRP-PETRO

- Sorbent Capacity: 12 gallons/case
- Packing: 3 packs/case



Petroleum Sorbent Pads 3M-T-151, 3M-T-156, 3M-T-157

- Approx. Dimension: 17" x 19" (T-151)
- 17" x 19" (T-156)
- 34" x 38" (T-157)
- Sorbent Capacity: 43.5 gallons/bale (T-151)
- 40.5 gallons/bale (T-156)
- 81 gallons/bale (T-157)
- Packing: 200 pads/bale (T-151)
- 100 pads/bale (T-156)
- 50 pads/bale (T-157)



Petroleum Sorbent Pads High capacity 3M-HP-156, 3M-HP-157

- Approx. Dimension: 17" x 19" (HP-156)
- 34" x 38" (HP-157)
- Sorbent Capacity: 37.5 gallons/bale (HP-156)
- 75 gallons/bale (HP-157)
- Packing: 100 pads/bale (HP-156)
- 50 pads/bale (HP-157)



3M Maintenance sorbents

Are designed to absorb non-aggressive liquids, making them ideal for plan maintenance. They're lightweight and versatile and take just minutes to put in place. Maintenance sorbents are dust-free and contain no abrasive granules that can damage expensive equipment.

3M™ offers many different configurations:

- Pads
- Folded
- Rolls
- Pillows
- Mini-booms
- Rugs

Maintenance Sorbent Folded, High capacity 3M-M-FL550DD

- Approx. Dimension: 5" x 50'/box
- Sorbent Capacity: 31.5 gallons/case
- Packing: 3 boxes/case



Selection of Emergency Equipment



Adequate water flow

- Shower should deliver a minimum of 75 liters/min from a water pressure of 2.1 Bar (30psi)
- Produce a conical deluge of water with a diameter of 50cm at 150cm from the floor surface, spraying at a height of between 208-244cm
- Eye/face wash must provide a minimum of 11.5liters/min at a height of 84-114cm



- An auxiliary aerated eyewash diffuser on hose should have not less than 1.5 liters/min flow rate

Ease of operation

- Simple to use and easy to operate when the victim have impaired vision
- Stay-open ball valve operated
- Pull lever, panic bars or walk-on foot control for shower
- Pull handle or treadle foot control lifting a lid or quick action valve total reliability

Instant and positive operation

- Instant and positive operation is imperative for all emergency Shower and Eyebath equipment
- Water supply valves must open quickly and maximum flooding action must be provided in 1 second

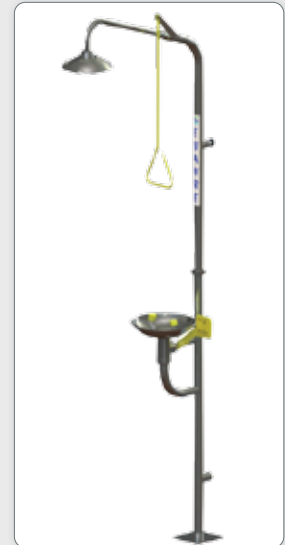
Reliability

- Capable of performing their required service even after long periods of idleness
- Top quality valves operated by jam-proof, robust and corrosives-resistance actuating devices are essential for total reliability



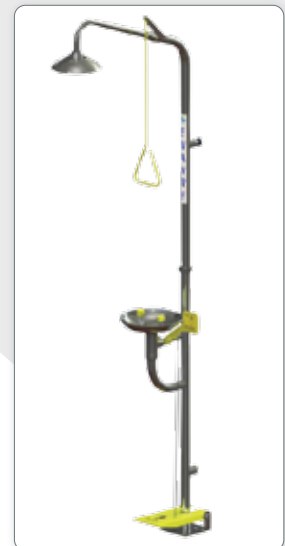
Emergency Stainless Steel Combination Shower with Hand Operated Eyewash EW-ECE060

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel pipe work and stay-open ball valve
- Stainless steel 200mm (8") shower head assembly
- Stainless steel pull rod handle with high visibility yellow epoxy coating
- Stainless steel impeller with drenching spray pattern
- Zero velocity apex point provides more comfort and control for effective cleansing of eyes
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- High visibility yellow epoxy coated eyewash push handle
- Balanced simultaneous operation



Emergency Stainless Steel Combination Shower with Hand/Foot Operated Eyewash EW-ECE090

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel pipe work and stay-open ball valve
- Stainless steel 200mm (8") shower head assembly
- Stainless steel pull rod activated shower with high visibility yellow epoxy coating
- Push or foot activated eyewash with soft aerated flow and integral auto-open dust covers
- Zero velocity eyewash apex point provides more comfort and control for effective cleansing of eyes
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- Solid stainless, low angle foot pedal for easy activation of eyewash
- High visibility yellow epoxy coated push handle and foot pedal
- Balanced simultaneous operation



Emergency Stainless Steel Combination Shower with Hand/Foot Operated Eye/Face Wash EW-ECE270

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel pipe work and stay-open ball valve
- Stainless steel 200mm (8") shower head assembly
- Stainless steel handle with high visibility yellow epoxy coating
- Push and foot activated eye/face wash with integral auto-open dust covers
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- Eye/face wash features "Vertex Technology" where eyewash and independently angled face wash streams deliver optimum coverage
- Zero velocity apex point provides more comfort and control for effective cleansing of eyes
- Solid stainless, low angle foot pedal for easy activation of eye / face wash
- High visibility yellow epoxy coated push handle and foot pedal
- Balanced simultaneous operation

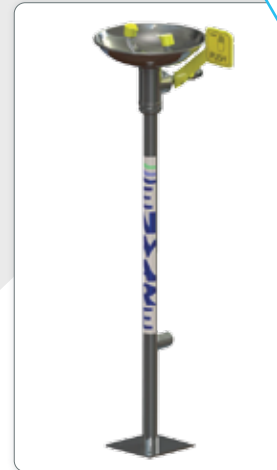


EMERGENCY EQUIPMENT



Emergency Eyewash Pedestal Mounted Hand Operated EW-EEE180

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel bowl, stay-open ball valve and hand actuator
- Push activated eyewash with soft aerated flow and integral auto-open dust covers
- Zero velocity apex point provides more comfort and control for effective cleansing of eyes
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- High visibility yellow epoxy coated push handle



Emergency Eyewash Pedestal Mounted Hand/Foot Operated EW-EEE210

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel bowl, stay-open ball valve and hand actuator
- Push and foot activated eyewash with soft aerated flow and integral auto-open dust covers
- Zero velocity apex point provides more comfort and control for effective cleansing of eyes
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- Solid stainless, low angle foot pedal for easy activation of eyewash
- High visibility yellow epoxy coated push handle and foot pedal



Emergency Eye/Face Wash Pedestal Mounted Hand/Foot Operated EW-EFE390

- Independently tested to ANSI Z358.1 and AS4775
- Freestanding for stand-alone operation
- Stainless steel bowl, stay-open ball valve and hand actuator
- Integral volume adjustment control
- Push and foot activated eye/face wash with integral auto-open dust covers
- Eye/face wash features "Vertex Technology" where dedicated eyewash and independently angled face wash streams deliver optimum coverage
- Zero velocity apex point provides more comfort and control for effective cleansing of eyes
- Self-draining design reduces bacteria risk, particularly in tepid water applications
- Solid stainless, low angle foot pedal for easy activation of eye / face wash
- High visibility yellow epoxy coated push handle and foot pedal



Wall Mounted Hand Operated Eye Wash EW-EEE120

- 2 aerated outlets with dust covers
- Stainless steel bowl
- Stainless steel stay open ball valve
- Stainless steel hand actuator
- Integral volume control



Selection of Containment Equipment



The purpose of containment Equipment

- Reduced the risk of fire
- Protected personnel and facilities
- Identify, organize, and segregate dangerous liquids



- Compliance with regulations
- Improved efficiency
- Improved company image

Types of Containment Equipment

- **Safety cabinets** - Storage of flammable, combustible, corrosive & pesticides
- **Safety containers**
 - Safety contain hazardous liquids and control vapors to reduce the risk of fire, protecting personnel and facilities

Utility products

- Make cleaning parts and sub-assemblies with flammables and solvent safer, easier and more efficient

Containment Systems

- Protects against our water contamination. And keep peronnel safe from accidental slips due to leaks and spills

SAFETY CONTAINMENT SYSTEM

Leading Brand for Environmental Protection and Employee Safety Products / Safety Containment Systems **SCS**



18Ga(1-mm) high quality welded steel

Adjustable shelves with anti-leakage design

Shelf bracket welded on both sides of cabinet

Unleaded coating with polish surface, which is corrosion and moisture proof

FM Certification

Fireproofing vents to effectively reduce the concentration of volatile substances, and prevent fire hazards. Special spill-proof shelves to avoid chemical leakage by accident.

Double fireproof steel panel and the insulate temperature space between the 2 panel is 38mm

The cabinet has three-point linkage lock, and the door can open 180°

5.3cm sump to prevent spill

Safety locking devices, in line with Hazardous Chemicals Control Ordinance (December 1st, 2011 Version)



It has acquired FM & CE Certification and is in strict comply with FM Approval Standard for Storage Cabinets (Flammable and Combustible Liquids) Class Number 6050, OSHA 29 CFR 1910.106 of American Occupational Safety and Health Administration, NFPA CODE30 of American National Fire Protection Association and Hazardous Chemicals Control Ordinance of State Bureau of Safe Production Supervision and Administration



Adjustable shelves: adjustable among every 6.5cm floor which can make full use of space



SYSTEX Three-point linkage lock: make lock safer; Flush paddle handle offers easy operation and save space



Fireproofing ventilation hole: at both sides of the cabinet, one on the top and the other on the bottom



Safety locking devices in line with Hazardous Chemicals Control Ordinance (December 1st, 2011 Version)



The three-point bullets: anti-static design structure



FM Approved Anti-Static Device: conductor grip combine the equipment with the cabinet to conduct the static to earth, thus to prevent fire accident

[1] Please refer to List of Hazardous Goods (GB 12268) and List of Hazardous Chemicals of SA WS (State Administration of work safety, 2002 edition)

* OSHA CODE 29 CFR 1910.106 specifies that for in Class 1, 2 and 3, flammable liquids the cabinet should hold less than 60 Gal.

Chemical Properties

Conform the Chemical properties of the chemicals to be installed

↑ Color management + ↑ Label management = ↑ Identifiability

Color management and label management helps you to identify, manage and distinguish between a variety of dangerous chemicals in the storage process. According to the Material Safety Data Sheets (MSDS) of chemicals planned to be stored, you can determine their chemical characteristics and storage requirements, choose corresponding categories of safety storage cabinets in color and label management system, classify and grade chemicals, to avoid the risk of fires, gas reaction and explosion due to incompatible chemical storage.

	Yellow for flammable liquids
	Red for paints, inks, and other combustible liquids
	Blue for corrosive liquids
	White for toxic substance
	Green for pesticide

In line with the US industrial tradition:



Types of Chemical Safety Cabinets

In storing chemicals, colors and labels are generally used for identify different chemicals, so if fires occur, it is easy for firemen to indentify hazardous chemicals.

Flammable Cabinets	Combustible Cabinets	Corrosive Cabinets	Toxic Cabinets	Pesticides Cabinets	Polyethylene Corrosive Cabinets
Yellow Safety Cabinet for storing flammable liquids (low and median flash point liquid ¹ , flash point < 37.8°C)	Red Safety Cabinet for storing paintings, oil and other flammable liquids (high flash point liquid ² , flash point ≥ 37.8°C)	Blue Safety Cabinet for storing corrosive liquids ³	White Safety Cabinet for storing toxic chemicals	Green Safety Cabinet for storing insecticides, pesticides, disinfectors and other chemicals	Polyethylene Corrosive Cabinet for storing strong polyethylene or corrosive chemicals

Flammable Cabinets

Volume (Gal/L)	Certification	Door type	Ext dimension (H×W×D/cm)	Packing dimension (H×W×D/cm)	Adjustable Shelves (Pcs)	Shelf Loading Weight (Kgs.)	N.W. (Kgs.)	G.W. (Kgs.)	Yellow Model	Red Model	Blue Model	White Model
4/15	CE	Single Door/Manual	56x43x43	56x43x43	1	50	27.3	35	WA810040	WA810040R	WA810040B	—
10/38	CE	Single Door/Manual	64x59x60	82x69x69	1	50	34	48	WA810100	—	—	—
12/45	FM CE	Single Door/Manual	89x59x46	108x70x57	1	50	44.6	56	WA810120	WA810120R	—	WA810120W
22/83	FM CE	Single Door/Manual	165x60x46	182x70x57	3	50	74.3	90	WA810220	—	—	—
30/114	FM CE	Double Door/Manual	112x109x46	130x120x57	1	100	86.2	102	WA810300	WA810300R	WA810300B	—
45/170	FM CE	Double Door/Manual	165x109x46	182x120x57	2	100	114	133	WA810450	WA810450R	WA810450B	WA810450W
54/204	FM CE	Single Door/Manual	165x60x87	184x70x97	3	100	120.3	140	WA810540	—	—	—
55/207	CE	Double Door/Manual	165x86x86	182x96x96	1	100	154.8	179	WA810550	—	—	—
60/227	FM CE	Double Door/Manual	165x86x86	182x96x96	2	100	144.2	166	WA810600	WA810600R	—	—
90/340	FM CE	Double doors/Manual	165x109x86	182x120x96	2	100	164.2	186	WA810860	WA810860R	WA810860B	—
110/415	CE	Double Door/Manual	165x150x86	182x162x98	1	100	228.6	271	WA811100	—	—	—
115/434	CE	Double Door/Manual	165x150x86	182x162x98	2 (Left) 1 (Right)	100	227.6	270	WA810115	—	—	—

SAFETY CONTAINMENT SYSTEM

Leading Brand for Environmental Protection and Employee Safety Products / Safety Containment Systems **SCS**



Polyethylene Corrosive Cabinet

One-piece construction forming polyethylene corrosive cabinet provide maximum safety storage protection for storing harsh acids or corrosive chemicals

SYSBEL Polyethylene corrosive cabinet, with seamless structure, ensure almost no leakage, and excellent performance of corrosion resistance and secondary leakage prevention and control. Double padlocks help to achieve double-person lock management, which is in line with EPA264.175 of the U.S. EPA, OSHA29CFR1910.1450 of the U.S. OSHA and Chinese Management of Hazardous Chemicals Ordinance (December 1, 2011 edition). On the cabinet doors, there are acidic and corrosive chemical warning labels to give your chemical storage management double guarantee.



It is CE approved, in line with EPA264.175 of EPA and OSHA29CFR1910.1450 of OSHA as well as Hazardous Chemicals Control Ordinance of SAWS.

Countertop Single Door Polyethylene Corrosive Cabinet ACP80001

4 Gal storage capacity; all-plastic and no-stopper design, excellent corrosion resistance; the cabinet shelf can be removed according to needs to improve space utilization; both sides of door can be hinged and door can be opened on both sides, to fully use table space; on both sides of cabinet, there are two vents, can open the lid for ventilation or discharge of pressure gas when necessary; double padlock design to meet the requirements for double-person lock management. The product is CE certified.

Undercounter Double Door Polyethylene Corrosive Cabinet ACP80002

22 Gal storage capacity; all-plastic and no magnetic door holder design, excellent corrosion resistance; cabinet shelves can be removed according to needs to improve space utilization; on both sides of cabinet, there are two vents, can open the lid for ventilation or discharge of pressure gas when necessary; double padlock design to meet the requirements for double-person lock management. The product is CE certified.



ACP80001



ACP80002

Polyethylene Corrosive Cabinets

Volume (Gal/L)	Number of Doors and Style	Ext dimension (H×W×D/cm)	Ext dimension (H×W×D/cm)	Adjustable Shelves (Pcs)	Volume of Bottom Leakage (Gal/L)	Shelf Loading Weight (Kgs)	G.W. (Kgs.)	Model
4/15	One/Desktop	49×41×36	51×43×40	1	1.79/6.8	20	8.8	ACP80001
22/83	Two/Undercounter	89×90.5×54.4	91×93×58	4	3.17/12	20	35.5	ACP80002

Product Supporting Parts

Name of Part	For the Type of Cabinet	Packing dimension (H×W×D/cm)	Model
Poly Shelf	ACP80001	3×38.8×30	ACPL001
Poly Shelf	ACP80002	3×48×43	ACPL002

* Tips: When strong corrosive chemicals in the storage cabinets leak, the leaked chemical liquids will flow to the sump at the bottom of cabinets. Please use adsorbents and other spill control products to remove spills timely under the guidance of professionals.

[1] Please refer to List of Hazardous Goods (GB 12268-90) and List of Hazardous Chemicals of SAWS (OSHA Code 29CFR 1910.106 2002 edition).



Double padlock to achieve double-person lock management, to provide a higher level of security (padlock is on optional part)



Special design of cabinet top, which can also be used as a worktable



Two vents on both sides of the cabinet, with removable lids for ventilation or discharge of pressure gas when necessary



On the door, there are warning labels to remind people to watch out



No magnetic door holder and excellent in corrosion resistance



Cabinet shelves can be removed to enhance space utilization



Both sides of ACP80001 doors can be hinged, and the door can be opened from the right side



Comply with OSHA29
CFR910.106&1910.144 of OSHA

SYSBEL Oily Waste Cans

A good helper for you to connect oily trashes!

In order to prevent fire risks and collect rags and cloth submersed in oil (flammable solvents, linseed oil and other flammable liquids), please use OSHA standard oily waste can. SYSBEL oily waste can has special lid whose opening angle is no more than 60°. The self-closing lid design ensures the can tightly closed in the absence of external force, to effectively control the three elements of fires*.

The oily waste can plays an important role!

- 1. Pedal switch control, requiring no manual operation
- 2. Unique body and base design of the can to effectively reduce the possibility of fire
- 3. Maximum lid opening angle is 60°, in accordance with Underwriters Laboratories (UL) safety standards
- 4. Scope: Red products for tarnish flammable liquid waste; yellow for tarnish combustible liquid waste

SYSBEL Oily Waste Cans

Capacity (Gal/L)	Ext Dimensions (HxD/cm)	Packing Dimensions (HxWxD/cm)	N.W. (kgs.)	G.W. (kgs.)	Red Model
6/22.6	40x30	46x42x42	4.5	6	WA8109100
10/38	46x35	52x47x47	6	7.5	WA8109300
14/52.9	51x41	58x51x51	7.5	9	WA8109500
21/79.3	60x47	66x56x56	11	12	WA8109700

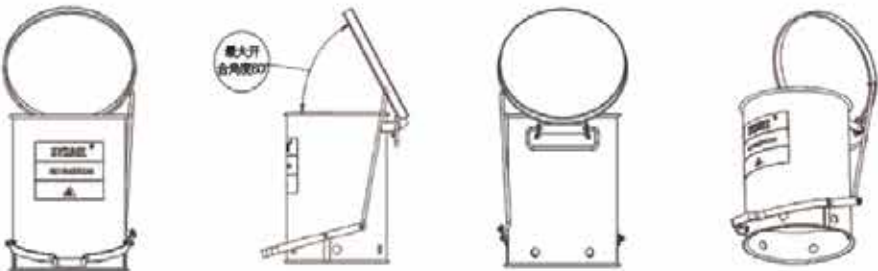


Type

For Type

Red Oily Waste Can

Flashing point≤80° F(27°C) Trash immersed in flammable liquids



SAFETY CONTAINMENT SYSTEM



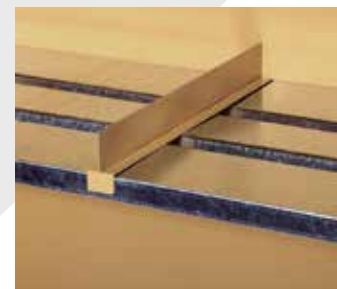
Safety Cabinet Parts



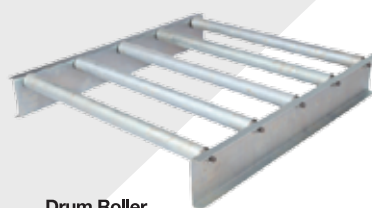
Shelf



Shelf Divider



Drum Ramp



Drum Roller



PVC Tray



Safety Cabinet Supporting Parts

Type	Name of part	For the type of Cabinet	Ext. Dimensions (HxWxD/cm)	G.W. (Kgs.)	Model	Functions
Shelve	Galvanized Steel Shelf	4 Gal	3x33x33	1.4	WAL040	More storage area divisions for diversified needs
	Galvanized Steel Shelf	12 Gal	3x49.5x35.5	2.4	WLA012	
	Galvanized Steel Shelf	30/45 Gal	3x100x36	5.4	WAL03045	
	Galvanized Steel Shelf	60 Gal	3x76.3x76.3	7.8	WAL060	
	Galvanized Steel Shelf	90 Gal	3x100x76.3	9.7	WAL090	
PVC Trays	PVC Tray	4 Gal Corrosive Cabinet	2x37x33	0.24	WAP040	Use with blue steel safety cabinet to provide extra spill protection
	PVC Tray	30 & 45 Gal Corrosive Cabinets	2x36x100	0.70	WAP03045	
Drum Roller	Oily Drum Safety Cabinets Roller	55/110/115 Gal	11.5x75x68	22.9	WADR001	Supporting storage for oily and chemical drums
Drum Ramp	Oily Drum Safety Cabinets Ramp	55/110/115 Gal	11.5x75x68	8.6	WAR001	Special tread design to increase friction, convenient for oily drum cart loading and unloading operations
Ground Connection	Antistatic Earth Lead	Steel Safety Cabinets	2mm, Length 1.5m	0.2	WA001	Promptly eliminate electrostatic changes, to prevent static sparks

Type	Name of part	For the type of cabinet	Ext Dimensions (HxWxD/cm)	Model	Functions
Shelf Divider	Safety Cabinet Shelf Divider 4G	4 Gal	6x3x33.4	WASD0040	Extend cabinet functions to enhance its performance
	Safety Cabinet Shelf Divider 12G	12 Gal	6x3x35.9	WASD0012	
	Safety Cabinet Shelf Divider 30 & 45G	30/45 Gal	6x3x36	WASD3045	
	Safety Cabinet Shelf Divider 60G	60 Gal	6x3x76.7	WASD0060	
	Safety Cabinet Shelf Divider 90G	90 Gal	6x3x76.7	WASD0090	



Why Do I Need a Safety Cabinet?

One of the leading causes of industrial fires is the improper storage and handling of flammable liquids. Safety cabinets help you safely store fuels, chemicals, and solvents to reduce the risk of fire and protect your people and property.

Safety cabinets serve critical functions:

- Improve awareness—high-visibility cabinet color and prominent labeling identify potentially hazardous chemicals
- Keep dangerous liquids safely organized and segregated
- Ensure safe evacuation time in the event of a fire
- Provide compliance with federal OSHA regulations and the National Fire Protection Association
- Increase maximum allowable quantities of flammable and combustible liquids in control areas
- Improve efficiency by locating materials near point-of-use
- Improve security with locking mechanism



Considerations when selecting a safety cabinet

- Federal, state, and local compliance requirements
- Size and type of container being stored
- Capacity needed
- Type of chemical being stored
- Security and safety features such as U-Loc™ padlockable handle, Spillslope® shelves, Haz-Alert™ warning labels, all welded construction

Also look for cabinets that carry independent, third party certification from FM Approvals (FM-approved) or MPA Dresden (GS). These marks signify the cabinet will perform as expected and support property loss prevention.



While regulatory codes do not mandate the specific color for a safety cabinet, industry has customarily observed certain colors for defined liquids.

 Yellow for flammable liquids	 Green for pesticides and insecticides
 Red for paints, inks, and other combustible liquids	 Silver or neutral colors for laboratory settings
 Blue for corrosives and hazardous liquids	 White, beige or gray for waste or outdoor lockers

Regulations do, however, specify construction details and the type of door style required

Code	Flammable Safety Cabinet Door Styles
NFPA 30 and NFPA 1, 2012 ed	Permits either manual or self-close doors
IFC	Mandates use of self-close doors only
NFPA 400	Mandates use of self-close doors only
Contact local jurisdictions for specific requirements.	

Compliance

Each Justrite steel safety cabinet meets at least one or more of the following regulations:

- OSHA 1910.106
- National Fire Protection Association (NFPA) Flammable Liquid Code 30
- NFPA Fire Code 1
- International Fire Code (IFC)
- National Fire Code of Canada
- NFPA Hazardous Materials Code 400
- European EN standard 14470-1 and 14727



Most cabinets are FM approved and all are backed by an industry-first, ten-year warranty.

SAFETY CONTAINMENT SYSTEM



Justrite® Sure-Grip® EX Safety Storage Cabinets offer top performance for flammable liquid storage and protection EXtra safe, EXtra sturdy, EXtra secure

Fusible links hold doors wide open and melt at 165°F (74°C) for automatic closure (on self-closing models)

Sturdy 18-gauge (1-mm) double wall steel construction with 1-1/2-in (38-mm) of insulating air space

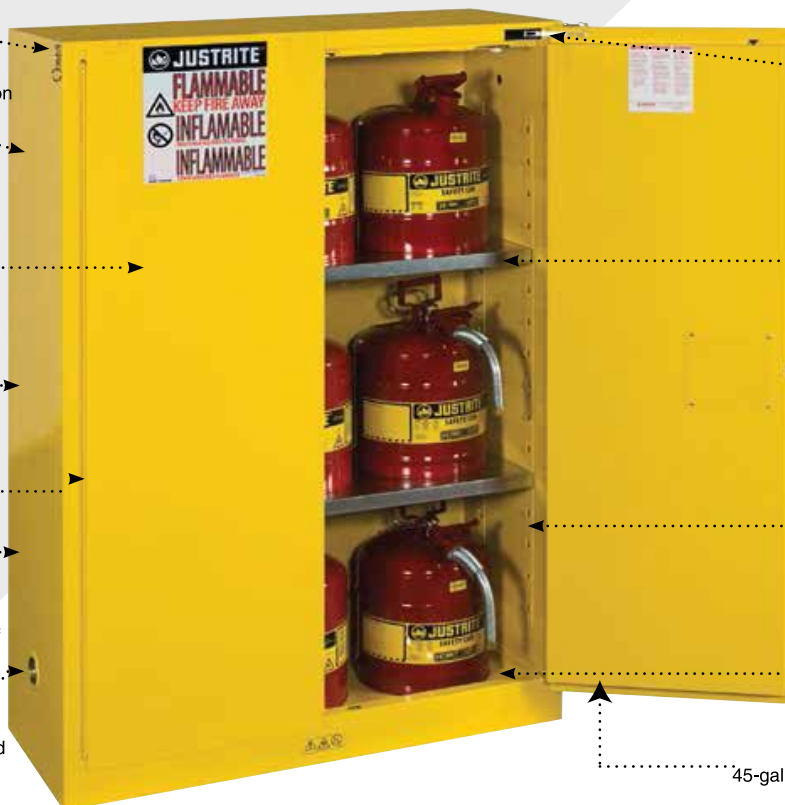
Easy-close, self-latching doors; U-Loc™ handle (shown below) does not require manual rotation to engage mandatory three-point latch

Fully welded, not riveted, construction holds squareness for longer life and offers greater protection in a fire since air gaps are reduced

Continuous piano hinge provides smooth closure

Durable and chemical-resistant, lead-free powder-coat paint finish, inside and out, retains high gloss look and minimizes the effects of corrosion and humidity

Dual vents with built-in flash arresters strategically placed at bottom and opposite top



Concealed self-close mechanism provides obstruction-free access to top shelf space. Self-indexing doors guarantee they will close in sequence and ensure a tight closure from top to bottom (on self-closing models). Patent pending

Patented SpillSlope® safety shelves direct spills to back and bottom of leakproof sump. Adjustable on 3-in (76-mm) centers, they meet ANSI standards with a 350-lb (159-kg) safe allowable load.

Welded shelf hangers interlock with shelf to offer maximum "nonslip" stability with no filmy brackets to lose

2-in (51-mm) leakproof containment sump holds leaks and meets EPA requirements.

45-gallon (170-liter) self-close door style



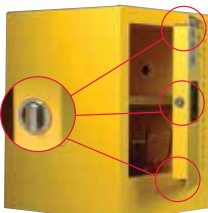
Adjustable leveling feet make it easy to balance cabinets on uneven surfaces.



Built-in grounding connector (on outside side panel) for easy grounding. Shown here with optional ground wire 08500.



Complies with OSHA 29 CFR 1910.106 and NFPA Code 30, section 9.5.3; FM Approved



Stainless steel, 3-point bullet self-latching system provides easy, fail-safe, positive door closure with increased heat resistance. Patent pending



Easily secure your contents—U-Loc™ handle includes double key set or can be padlocked (not included) for greater security. Patent pending



Patented SpillSlope® safety shelves direct spills to back and bottom of leakproof sump; adjust on 3-in (76-mm) centers for versatile storage. Meets ANSI MH28.1



Welded construction holds squareness for long life; door astragal provides extra sturdiness



Highly visible HazAlert™ reflective label provides warning—"Flammable – Keep Fire Away" in English, Spanish, and French



Using multiple cabinets helps you organize and segregate dangerous liquids.

Sure-Grip® EX Classic Safety Cabinets

Safe, dependable flammable liquid storage and protection

- Independently fire tested and approved by FM Approvals.
- Avoid fines—meet regulations, fire codes, and insurance requirements.

Protect workers, reduce fire risks, and improve productivity by storing flammable fuels and chemicals in code-compliant safety cabinets. Designed to meet OSHA and NFPA 30 standards, Sure-Grip® EX cabinets are constructed of sturdy 18-gauge (1-mm) thick double-wall, welded steel with 1-1/2-in (38-mm) of insulating air space for fire resistance. High-performance, self-latching doors close easily and securely for maximum protection under fire conditions. Fail-safe closing mechanism ensures three-point stainless steel bullet latching system works every time.

For added security, U-Loc™ handle comes with a cylinder lock and key set or accepts an optional padlock.

Haz-Alert™ reflective warning labels are highly visible under fire conditions or during power outages when illuminated with a flashlight.

Patented SpillSlope® galvanized steel shelves direct spills to back and bottom of a leakproof sump. They adjust on 3-in (76-mm) centers for versatile storage. Cabinets also feature a leakproof 2-in (51-mm) bottom sump, dual vents with flame arresters, four adjustable self-leveling feet, grounding connector and trilingual warning label. Durable lead-free epoxy/polyester powder-coat finish provides excellent chemical resistance.

All cabinets are FM-approved and come with a ten-year warranty.

Self-closing models also meet NFPA 1 and the International Fire Code. They shut and latch automatically when a fusible link melts at 165°F (74°C) under fire conditions. Unique, concealed self-closing mechanism offers obstruction-free access to contents.



894500



894520



893000



896000

Capacity Gallons/Liters	Number of Doors and Style	Dimensions H x W x D		Adjustable Shelves	Approval/Lstg Regulation	Sure-Grip® Model No	Ship Wt lb/kg
		Exterior	Interior				
30/114	2 door, manual	44 x 43 x 18 in	39.625 x 39.5 x 14.562 in	1	FM,N,O,A	893000	231/105
	2 door, self-close	1118 x 1092 x 457 mm	1006 x 1003 x 370 mm		FM,N,O,A,I	893020	238/108
45/170	2 door, manual	65 x 43 x 18 in	60.5 x 39.5 x 14.562 in	2	FM,N,O,A	894500	311/141
	2 door, self-close	1651 x 1092 x 457 mm	1537 x 1003 x 370 mm		FM,N,O,A,I	894520	313/142
60/227	2 door, manual	65 x 34 x 34 in	60.5 x 30.75 x 30.34 in		FM,N,O,A	896000	388/176
	2 door, self-close	1651 x 864 x 864 mm	1537 x 781 x 771 mm		FM,N,O,A,I	896020	392/178
90/341*	2 door, manual	65 x 43 x 34 in	60.5 x 39.5 x 30.34 in		FM,N,O,A	899000	481/218
	2 door, self-close	1651 x 1092 x 864 mm	1537 x 1003 x 771 mm		FM,N,O,A,I	899020	

*OSHA 29CFR 1910.106(d)(3) states that not more than 60 gallons (227L) of Category 1, 2, or 3 flammable liquids, nor more than 120 gallons (454L) of Category 4 flammable liquids may be stored in a safety cabinet.

Extra Accessories

Description	Fits Cabinet Styles	Dimensions W x D	Model No	Ship Wt lb/kg
SpillSlope® steel shelf	30 & 45 gallon (114 & 170 L) - 43 in W (1092 mm)	39.375 x 14 in (1000 x 356 mm)	29937	10/5
SpillSlope® steel shelf	30 gallon (114 L) - 36 in W (914 mm)	32.375 x 20 in (822 x 508 mm)	29942	12/5
SpillSlope® steel shelf	60 gallon (227 L) - 34 in W (864 mm)	30.375 x 29 in (771 x 737 mm)	29944	16/7
SpillSlope® steel shelf	90 gallon (341 L) - 43 in W (1092 mm)	39.375 x 29 in (1000 x 737 mm)	29945	21/9



SAFETY CONTAINMENT SYSTEM



Self-latching doors require a simple push to securely activate the three-point latch.

Sure-Grip® EX Safety Cabinets—Optional Colors Follow company-established color coding practices

Using color coding in your storage practices helps identify, organize, and segregate liquids. These cabinets in red, gray, and white have all the same safety benefits and high performance features found in Justrite's classic-style yellow cabinets for the storage of flammable fuels and chemicals



893001



893003



893005



Capacity Gal/L	Number of Doors and Style	Dimensions H x W x D		Adjustable Shelves	Approv/Lstg Regulation	Red Model No	Gray Model No	White Model No	Ship Wt lb/kg
		Exterior	Interior						
30/114	2 door, manual	44 x 43 x 18 in 1118 x 1092 x 457 mm	39.625 x 39.5 x 14.562 in 1006 x 1003 x 370 mm	1	FM,N,O,A	893001	893003	893005	232/105
	2 door, self-close				FM,N,O,A,I	893021	893023	893025	236/107
	2 door, manual	35 x 36 x 24 in 889 x 914 x 610 mm	30.625 x 32.625 x 21.75 in 778 x 829 x 552 mm		FM,N,O,A	893301	893303	893305	213/97
45/170	2 door, manual	65 x 43 x 18 in 1651 x 1092 x 457 mm	60.5 x 39.5 x 14.562 in 1537 x 1003 x 370 mm	2	FM,N,O,A	894501	894503	894505	299/136
	2 door, self-close				FM,N,O,A,I	894521	894523	894525	301/137
60/227	2 door, manual	65 x 34 x 34 in 1651 x 864 x 864 mm	60.5 x 30.75 x 30.34 in 1537 x 781 x 771 mm		FM,N,O,A	896001	896003	896005	386/175
	2 door, self-close				FM,N,O,A,I	896021	896023	896025	394/179
90/341*	2 door, manual	65 x 43 x 34 in 1651 x 1092 x 864 mm	60.5 x 39.5 x 30.34 in 1537 x 1003 x 771 mm		FM,N,O,A	899001	899003	899005	450/204
	2 door, self-close				FM,N,O,A,I	899021	899023	899025	454/206

*OSHA 29CFR 1910.106(d)(3) states that not more than 60 gallons (227L) of Category 1, 2, or 3 flammable liquids, nor more than 120 gallons (454L) of Category 4 flammable liquids may be stored in a safety cabinet.

Sure-Grip® EX Safety Cabinets—Single Door Full size, full storage capacity safety cabinets with a unique single-door design

These cabinets have all the same features and benefits as Justrite's popular classic-style safety cabinets, with one convenient bi-fold, sliding door. Self latching and self closing, it is equipped with a fusible link to hold the door open during use and melts at 165°F (74°C) to automatically close under fire conditions. Heavy-duty steel dual-track guidance system at top and bottom ensures smooth closure. Industrial-strength spring-loaded piano hinge provides long lasting operation.



893080



Capacity Gal/L	Number of Doors and Style	Dimensions H x W x D		Adj Shelves	Approv/Lstg Regulation	Yellow Model No	Red Model No	Gray Model No	White Model No	Ship Wt lb/kg
		Exterior	Interior							
30/114	1 bi-fold sliding self-close	44 x 43 x 18 in 1118 x 1092 x 457 mm	39.625 x 39.5 x 14.562 in 1006 x 1003 x 370 mm	1	FM,N,O,A,I	893080	—	—	—	246/116
45/170	1 bi-fold sliding, self-close	65 x 43 x 18 in 1651 x 1092 x 457 mm	60.5 x 39.5 x 14.562 in 1537 x 1003 x 370 mm	2		894580	894581	—	—	320/145
60/227	1 bi-fold sliding, self-close	65 x 34 x 34 in 1651 x 864 x 864 mm	60.5 x 30.75 x 30.34 in 1537 x 781 x 771 mm			896080	896081	—	—	394/179
90/341*	1 bi-fold sliding, self-close	65 x 43 x 34 in 1651 x 1092 x 864 mm	60.5 x 39.5 x 30.34 in 1537 x 1003 x 771 mm			899080	—	—	—	454/206

*OSHA 29CFR 1910.106(d)(3) states that not more than 60 gallons (227L) of Category 1, 2, or 3 flammable liquids, nor more than 120 gallons (454L) of Category 4 flammable liquids may be stored in a safety cabinet.



Place Slimline cabinet where floor space is limited.

Sure-Grip® EX Slimline Safety Cabinets

Gain valuable storage space even when floor space is tight

- Welded, 18-gauge (1-mm) steel double wall with 1-1/2-in (38-mm) insulating air space
- U-Loc™ handle comes with double key set and accepts optional padlock for added security

Fully compliant cabinets with compact design feature fire-resistant construction for the safe storage of flammable and combustible liquids.

Use alone or alongside larger safety cabinets for expanded storage when floor space is limited. The standard Slimline cabinet is 18-in (457-mm) deep and fits flush alongside a 45-gallon (170-L) cabinet. The deep Slimline cabinet is 34-in (864-mm) deep and fits alongside a 60- or 90-gallon (227- or 341-L) cabinet.



Use color coding in your storage practices to organize and segregate liquids.

Both cabinets measure only 23-1/4-in (591-mm) wide.

Slimline safety cabinets have all the same features as the larger safety cabinets including, a three-point, self-latching door with self-latching handle, a 2-in (51-mm) leakproof sump, and dual vents with integral flame arrester. Built-in grounding connector allows for proper grounding to reduce static build-up. Cabinets include three SpillSlope® galvanized steel shelves that direct spills to back and bottom into a 2-in (51-mm) leakproof sump. Under fire conditions when illuminated by a flashlight, highly reflective Haz-Alert™ warning labels shine brightly to alert emergency personnel to volatile contents.

Cabinets meet NFPA and OSHA regulations and are FM-approved. Self-closing models also comply with the International Fire Code.



892200

895400



Small cabinet footprint fits in the tightest spaces.



When additional storage space is needed, modular size fits nicely alongside existing cabinets.



Capacity Gal/L	Number of Doors and Style	Dimensions H x W x D		Adj Shelves	Approv/Lstg Regulation	Yellow Model No	Red Model No	Gray Model No	White Model No	Ship Wt lb/kg
		Exterior	Interior							
22/83 (standard)	1 door, manual	65 x 23.25 x 18 in	60.5 x 20 x 14.56 in	3	FM,N,O,A	892200	892201	892203	892205	208/94
	1 door, self-close	1651 x 591 x 457 mm	1537 x 508 x 370 mm		FM,N,O,A,I	892220	892221	892223	892225	210/95
54/204 (deep)	1 door, manual	65 x 23.25 x 34 in	60.5 x 20 x 30.34 in		FM,N,O,A	895400	895401	895403	895405	298/135
	1 door, self-close	1651 x 591 x 864 mm	1537 x 508 x 771 mm		FM,N,O,A,I	895420	895421	895423	895425	314/142

Extra Accessories				
Description	Fits Cabinet Styles	Dimensions W x D	Model No	Ship Wt lb/kg
SpillSlope® steel shelf	22 Gallon (83 L) Slimline	19.625 x 14 in (498 x 356 mm)	29936	6/3
SpillSlope® steel shelf	54 Gallon (204 L) Deep slimline	19.625 x 29 in (498 x 737 mm)	29941	11/5

SAFETY CONTAINMENT SYSTEM



Sure-Grip® EX Piggyback Safety Cabinets

Expand storage and safely segregate liquids

- Easily add up to 17-gallons (64-L) of additional capacity to existing cabinets.
- **Fully compliant, fire-resistant design reduces the risk of fire.**

Create a safe storage area for fuels, chemicals, or solvents without taking up valuable floor space. Piggyback cabinets are designed to mount on top of 30- and 45-gallon (114- and 170-L), manual or self-closing Sure-Grip® EX cabinets. They can also be used independently as a benchtop cabinet or stacked to provide additional storage. Turn it into a wall-mount cabinet with optional wall hanger assembly No. 25950.

The Piggyback cabinets have a lower-height, but offer the same protection as Justrite's taller safety cabinets. Constructed of sturdy 18-gauge (1-mm) thick double-wall, welded steel, they feature 3-point, self-latching doors that close easily and securely for maximum protection under fire conditions. Leakproof 2-in (51-mm) captures dangerous spills. U-Loc™ handle includes double key set and accepts optional padlock for increased security.

Cabinets meet NFPA and OSHA regulations and are FM-approved. Self-closing models also comply with the International Fire Code.



Piggyback cabinets can be stacked on each other or taller cabinets for better organization of liquids.



891300 on top of 893000



Instant access to safety data sheets . . .

Document storage boxes keep important papers *clean, legible, and at employee's fingertips—*



891300



891700



Capacity Gal/L	Number of Doors and Style	Dimensions H x W x D		Adj Shelves	Approv/Lstg Regulation	Yellow	Red	Gray	White	Ship Wt lb/kg
		Exterior	Interior			Model No	Model No	Model No	Model No	
12/45	2 door, manual	18 x 43 x 18 in	13 x 39.5 x 14.56 in	0	FM,N,O,A	891300	891301	891303	891305	129/59
	2 door, self-close	457 x 1092 x 457 mm	330 x 1003 x 370 mm		FM,N,O,A,I	891320	891321	891323	891325	131/59
17/64	2 door, manual	24 x 43 x 18 in	19.5 x 39.5 x 14.56 in	1	FM,N,O,A	891700	891701	891703	891705	166/75
	2 door, self-close	610 x 1092 x 457 mm	495 x 1003 x 370 mm		FM,N,O,A,I	891720	891721	891723	891725	169/77

Extra Accessories

Description	Fits Cabinet Styles	Dimensions W x D	Model No	Ship Wt lb/kg
SpillSlope® steel shelf	17 Gallon (64 L) piggyback	39.375 x 14 in (1000 x 356 mm)	29937	10/5
Wall hanger assembly (mounting kit)	12 & 17 Gallon (45 L & 64 L) piggyback cabinets	—	25950	5/2



Store harsh acids under a counter for safe, convenient access.

Polyethylene Acid Cabinets

One-piece construction provides excellent resistance to harsh acids and corrosives

These blue, hollow-bodied, polyethylene cabinets withstand highly corrosive acids and offer maximum protection against chemical corrosion and leaks. Both models are clearly labeled for ACID contents and accept a padlock (not included) for added security.

Countertop Cabinet stores up to two 1-quart (4-L) bottles. Door can be hinged from either side for best worktop space utilization. Polyethylene spill tray inside contains leaks and can be removed for easy cleaning. A separate polyethylene tray stores under the cabinet and can be used as a handy work tray.

Undercounter Cabinet holds up to thirty 1-quart (4-L) containers. Two segregated compartments each with an adjustable shelf let you store a variety of containers while recessed area in both doors hold small containers. Two removable sumps slide out for easy cleaning of incidental spills. Two vent holes (with removable caps) at rear accommodate pressurized vapor removal systems.



24160



24040



Compact design offers placement on lab counters for access to frequently used chemicals.

Capacity	Number of Doors and Style	Exterior Dimensions H x W x D	Adjustable Shelves	Model No	Ship Wt lb/kg
Two, 4-liter bottles	1 door, countertop	19.5 x 14.25 x 16.25 in 495 x 362 x 413 mm	–	24040	31/14
Thirty, 1-liter bottles	2 door, undercounter	35 x 36 x 23.5 in 889 x 914 x 597 mm	2	24160	130/59

SAFETY CONTAINMENT SYSTEM



Why Do I Need a Safety Can?

Almost every place of business has occasion to use flammable liquids such as fuels, chemicals, and solvents. Whereas these liquids are relatively commonplace, it's important to understand the dangers they may present. For example, one gallon of vaporized gasoline can explode with the same force as twenty sticks of dynamite. Safety containers protect workers by minimizing the risk of accidents and fires when handling hazardous liquids.

Safety cans serve critical functions:

- Reduce the risk of fire and explosion when pouring and storing flammable liquids
- Provide compliance with federal OSHA regulations and fire codes
- Improve efficiency with ease-of-use features which enhance pouring and filling operations



Types of Safety Containers

Safety containers come in a variety of types and sizes for different applications. All are designed to applicable codes and regulations and include safety features for worker protection.

- Type I and Type II steel safety cans
- D.O.T. (Department of Transportation) safety cans
- Polyethylene safety cans
- Laboratory safety cans
- Quick-disconnect safety disposal cans
- Liquid disposal safety cans
- Oily waste cans
- Plunger and bench cans
- Dip, wash, and rinse tanks

Safety Container Compliance

Justrite safety containers meet at least one or more of the following regulations:

- OSHA 1910.106
- National Fire Protection Association (NFPA) Code 30
- UN/D.O.T. 49 CFR parts 100 to 185
- National Fire Code of Canada
- NFPA Fire Code 1
- International Fire Code (IFC)
- California Air Resources Board (CARB) Title 13



Type I and Type II

D.O.T.

Polyethylene

Safety Container Approvals

Most safety containers carry independent, third party certification from one or more of the following:

- FM Approvals
- Underwriters Laboratories
- TÜV Technical Inspection Association



Laboratory

Quick-Disconnect Disposal

Liquid Disposal



Oily Waste



Plunger and Bench



Dip and Wash



Exclusive, vented Type II AccuFlow™ manifold with a Safe Squeeze® trigger handle provides the fastest smoothest, most controlled pouring. Patented.



Flexible 9-in (229-mm) hose on Type II AccuFlow™ offers targeted pouring into small openings.



Quick-fill port on Type II AccuFlow™ features an ergonomically designed lift lever that opens wide for easy filling.



Extra capacity in all cans accommodates oil additives for two cycle engines.



1/2-in (13-mm) grip lip along bottom supports pouring and resists accidental punctures when placed on uneven surfaces.



Stainless steel flame arrester stops flashback ignition. Long 3-1/2-in (88-mm) length offers safe secure insertion of gas nozzle.



Optional 2-position polypropylene funnel for Type I cans aids in pouring and folds down for compact storage and filling.



Large ID zone permits user labeling to avoid misuse, mishaps with incompatible mixtures, or to identify owner or department.

Safety in a Can!

Comfortable, rounded handle doesn't cut into hand.

Leakproof, positive pressure relief lid automatically vents to prevent rupture or explosion. It is spring-loaded to self-close controlling vapors and spills.

Type II **AccuFlow™**



Type I

Trilingual warning label

Free swinging handle with counter-balanced design leverages the weight of the can against the opening mechanism for easy pouring and carrying.

Reinforcing ribs strengthen walls to resist denting or implosion.

Double lock seams at base and top offer four thicknesses of steel for extra "bumper guard" protection.



24-gauge galvanized steel body and handle finished in an environmentally friendly, tough powder-coat finish resists solvents and stands up to abuse.

100% leak tested

Fully compliant—meets OSHA and NFPA



SAFETY CONTAINMENT SYSTEM



Swinging, full-fisted rounded handle eases carrying.



10001 10101 10301



7150100 7125100 7120100 7110100

Type I Safety Cans

Self-closing, leakproof lid provides safety from spills

Designed with a single spout for filling and pouring, the sealed lid features automatic positive-pressure relief that vents between 3 and 5 psig (0.2 and 0.35 bar) to guard against rupture or explosion.

Made from high-grade coated steel, each can is tested to guarantee 100% leakproof construction. The tough powder-coat finish resists chemicals and stands up to demands of rigorous use. Each Justrite safety can is equipped with a stainless steel flame arrester which dissipates heat to stop flashback ignition. Cans up to 1-quart (1-L) feature a trigger-release handle, while larger capacities have a swinging handle to greatly ease carrying of heavier loads. Large label ID zone on swing-handle cans provides writing space to identify contents, department location, or individual user name.

Certified by FM, UL/ULC, and TÜV, Justrite safety cans also meet OSHA and NFPA requirements, and come with a ten-year warranty.

Type I Safety Can Funnel

Used to pour into smaller openings, the polypropylene funnel attaches to the spout neck of Type I safety cans sized 1-gallon (4 L) and larger. The two-position funnel folds down for when you fill or store the can, and stays up for when you pour. Large rounded bowl provides protection from splashing and spillage. Durable construction holds up to heavy use.



Convenient hinged design allows you to fill the can without removing the funnel.



Prevent static discharge when transferring flammable liquids.

Use antistatic wires to bond and ground containers

Description and Capacity	Dimensions OD x H	Approv/Lstg Regulation	Red Can Model No	Red Can with Funnel* Model No	Ship Wt lb/kg
Trigger Handle Type I Safety Cans					
1 pint (0.5 L) steel safety can	4.812 x 6.75 in 122 x 172 mm	FM, UL/ULC, TÜV	10001	—	2/1
1 quart (1 L) steel safety can	4.812 x 8.25 in 122 x 210 mm		10101		
1 gallon (4 L) steel safety can	7.25 x 11.5 in 184 x 292 mm	FM, UL/ULC	10301		4/2
Swinging Handle Type I Safety Cans					
1 gallon (4 L) steel safety can	9.5 x 11 in 241 x 279 mm	FM, UL/ULC, TÜV	7110100	7110110	4/2
2 gallon (7.5 L) steel safety can	9.5 x 13.75 in 241 x 349 mm		7120100	7120110	6/3
2.5 gallon (9.5 L) steel safety can	11.75 x 11.5 in 298 x 292 mm		7125100	7125110	
5 gallon (19 L) steel safety can	11.75 x 16.875 in 298 x 429 mm		7150100	7150110	8/4
Polypropylene funnel for 1 gallon (4L) and larger	0.5 x 11.25 in 13 x 286 mm	—	11202Y	—	2/1
Bolt-on funnel with galvanized hose for 1 gallon (4L) and larger	1 x 14 in 25 x 356 mm		11089		

*Approvals apply to safety can only, not funnel.



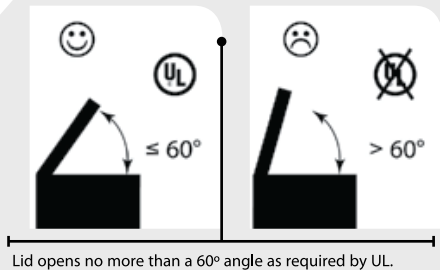


Oily Waste Cans

Dispose of oil-soaked rags and prevent fires caused by stray sparks or spontaneous combustion

Rags and cloths soaked with solvents, thinners, linseed oil, combustible adhesives and other flammable liquids present a serious fire risk when improperly discarded. Lid opens to no more than 60 degrees and stays closed when not in use, isolating contents from fire sources and limiting oxygen to virtually eliminate the risk of spontaneous combustion. Round construction and elevated base allow circulation of air around can to disperse heat and reduce moisture build-up and rusting. Durable steel construction with powder-coat finish provides chemical resistance. Approved by FM, UL, and TÜV. All cans carry a ten-year warranty.

Foot pedal provides hands-free opening. When released, cover self-closes to reduce oxygen source and prevent a fire from starting.



Description and Nominal Gallon Capacity	Dimensions OD x H	Approv/Lstg Regulation	Red Model No		Ship Wt lb/kg
			Foot-Operated	Hand-Operated*	
2 gallon (8 L) oily waste can	9.625 x 9.125 in 244 x 232 mm	FM	—	09200	6/3
6 gallon (20 L) oily waste can	11.875 x 15.875 in 302 x 403 mm	FM,UL,TÜV	09100	09110	10/4
10 gallon (34 L) oily waste can	13.938 x 18.25 in 354 x 464 mm		09300	09310	13/6
14 gallon (52 L) oily waste can	16.063 x 20.25 in 408 x 514 mm		09500	09510	16/7
21 gallon (80 L) oily waste can	18.375 x 23.438 in 467 x 595 mm		09700	09710	22/10

*Hand-operated models do not have TÜV certification.

SAFETY CONTAINMENT SYSTEM



Efficiently wet wipes with a simple pump action.

Safety Plunger Cans

Moisten cleaning cloths quickly and easily-smart pump brings more liquid to the top and requires less time between refills

- Rugged 24-gauge steel cans with powder-coat finish for chemical resistance.
- High-density polyethylene container option for greater corrosion resistance.
- Approved by FM Approvals and TÜV.

Dispense flammable liquids and solvents safely, without waste or exposure. Made of chemically resistant Ryton® and brass, the pump base is designed to leave less liquid in the bottom before having to refill.



Perforated dasher dissipates heat.

Pushing down on the pump assembly fills the upper pan with liquid. Surplus liquid drains safely back into reservoir. The perforated upper pan serves as a flame arrester. Top rim has molded edge protector for smooth, trouble-free moistening.



Description and Capacity	Dasher Assembly	Smart-Pump Assembly	Dasher Dia	Dimension OD x H	Approv/Lstg Regulation	Red Model No	Yellow Model No	Ship Wt lb/kg
1 pint (0.5 L) steel plunger can	steel	brass & Ryton®	2.75 in (70 mm)	4.875 x 5.25 in 124 x 133 mm	FM, TÜV	10008	10018	1/1
1 quart (1 L) steel plunger can			5 in (128 mm)	7.25 x 5.625 in 184 x 143 mm		10108	10118	3/1
2 quart (2 L) steel plunger can				7.25 x 7.875 in 184 x 200 mm		10208	10218	
1 gallon (4 L) steel plunger can				7.25 x 10.5 in 184 x 267 mm		10308	10318	4/2
1 quart (1 L) polyethylene plunger can	brass			5.5 x 8.25 in 140 x 210 mm		14018	-	2/1

Ryton® is a registered trademark of Chevron Phillips Chemical Company.

Safety Dispenser Cans

Safe, convenient way to release small amounts of liquid

Dispensing cans permit easy, one-hand dispensing of liquids directly onto work surface or into lab beaker. Leakproof, self-closing, brass dispenser valve minimizes spills and controls excess. FM-approved brass valves are ideal for use with flammables. Textured, high-density polyethylene body provides a firm grip.



14010 / 14004

Description and Capacity	Dimension OD x H	Spout Opening ID	Approv/Lstg Regulation	Model No	Ship Wt lb/kg
4 ounce (0.12L) polyethylene dispenser can, translucent	2.25 x 5.5 in (57 x 140 mm)	0.25 in (6 mm)	FM	14002	1/1
8 ounce (0.24L) polyethylene dispenser can, red	3.125 x 5.5 in (79 x 140 mm)			14004	
8 ounce (0.24L) polyethylene dispenser can, translucent				14005	
1 quart (1L) polyethylene dispenser can, red				14010	
1 quart (1L) polyethylene dispenser can, translucent	4 x 10.5 in (102 x 267 mm)			14012	



So many superior features make the original Smoker's Cease - Fire® the best choice for cigarette butt disposal



Rainbonnet covered opening keeps rain out and discourages unwanted trash. Large head dissipates heat.



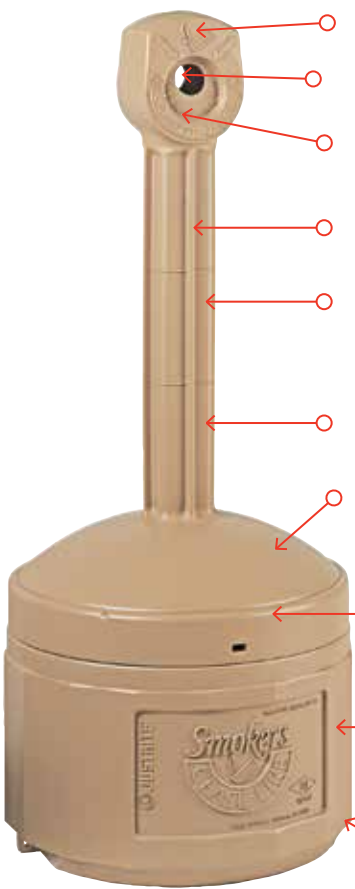
A patented internal drip-lip keeps messy tar condensation from escaping to help maintain a clean and neat appearance



Molded-in-tie-down notches on both sides provide security from theft or severe weather



Fire tested and approved by FM Global



- Molded-in graphics easily identify opening for cigarette butt disposal
- 1 1/2" (38mm) opening permits easy use and promotes good housekeeping
- Self-extinguishing design allows lit butts to be dropped in... or use available snuff spot
- Large internal neck cavity minimizes "clogging"
- Low maintenance, high density polyethylene construction with flame retardant additive won't rust, dent, crack or peel and resists fading
- Cease Fire® technology minimizes "chimney effect" found in other units
- Innovative Cease Fire® design limits the flow of oxygen to safely and quickly extinguish cigarettes to reduce the risk of fire
- Easy-open and easy-close, lid securely interlocks to prevent spills. Back thumb-screw easily connects top to bottom
- Large 4 gal. (15L) galvanized steel liner pail holds thousands of butts and removes for easy cleaning
- Broad 16 1/2" base for stability



Self-extinguishing is the secret!
All you have to do is drop in a lit cigarette and let Smoker's Cease Fire® take care of the rest. Its oxygen limiting design suffocates the lit cigarette to quickly put it out.

Easy maintenance!
Includes large galvanized steel pail with bail handle, making maintenance a snap! Simply lift off the top section and remove the bucket of emptying.



Original Smoker's Cease Fire® Cigarette Butt Receptacles									
Product Description	Dimensions Ht x Dia	Capacity	Approval/Lstg. Regulation	Pewter Gray Model No.	Adobe Beige Model No.	Deco Black Model No.	Terra Cotta Model No.	Forest Green Model No.	
Original Smoker's Cease Fire®	38 1/2" x 16 1/2"	4 gallons (15L)	FM**	26800	26800B	26800D	26800T	26800G	

** When liner is used with Original Smoker's Cease Fire®, the system is FM Approved

SAFETY CONTAINMENT SYSTEM



2,4,6 AND 8-Drum Workstations™

There's no need to worry about incidental spills on your factory floor, Workstations™ are easy to load with a low profile design and optional ramp. Each Workstation™ is designed for stand-alone use or can connect with other Workstations™, using link-locks™, for customized work area.

- Forkliftable when empty
- Tough, one-piece polyethylene construction that will not rust or corrode
- Low-profile Workstations™ actually become part of your factory floor, optimizing space for increased safety and efficiency
- Low-profile drip and leak protection
- Large sump capacity catches incidental spills
- Removable heavy-duty structural foam grates for easy cleaning
- Rolled-edge design helps resist cracking and warpage
- Multi-purpose Work Ramp™ hooks onto any Workstation™ for easy loading
- Link-Locks™ create a solid workspace by attaching units
- Tarps available for added protection



2-Drum Workstation™
EP-5117-YE



4-Drum Workstation™
EP-5116-YE



6-Drum Workstation™
EP-5115-YE

Workstations™

Part #	Description	Dimensions (LxWxH in.)	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap. lb. (kg)
5117-YE	2-Drum	53 x 28.5 x 6	38.2 (17.3)	22 (83.2)	2,000 (907)
5116-YE	4-Drum	53 x 53 x 6	70.5 (32)	40 (151.4)	6,000 (2,722)
5115-YE	6-Drum	77 x 53 x 6	101.6 (46)	61 (230.9)	7,000 (3,175)
5110-YE	8-Drum	100 x 53.25 x 6	163 (74)	77 (291.4)	8000 (3,629.7)

Regulations: EPA 40 CFR 264.175, SPCC, NPDES and UFC

Link-Lock™

Securely Hooks Multiple Workstations™ Together

Link and lock multiple Workstations™ together safely in a wide variety of configurations, Sold in pairs.



EP-5112-BK

Work Ramp™ & Link-Lock™

Part #	Description	Dimensions (LxWxH in.)	Weight lb. (kg)	Load Cap. lb. (kg)	Quantity
5111-BK	Ramp	46 x 25.38 x 6.13	29.8 (13.5)	1,000 (454)	
5112-BK	Link-Lock	9.5 x 7 x 3.5	3 (1.3)		1 Pair

Regulations: EPA 40 CFR 264.175, SPCC, NPDES



Secondary containment system engineered to prevent costly cleanups



2-Drum Poly-Spillpallet™ 2000
Prevents costly cleanups

This secondary containment system is engineered to meet the rigors of today's regulatory environment. Made with 100% polyethylene, it provides excellent chemical resistance. Optional drain with plug.

- Meets EPA 40 CFR 264.175
- Holds up to 2,000 lb. handling capacity
- Forkliftable
- Removable grate for easy cleaning

2-Drum Poly-Spillpallet™ 2000

Part #	Description	Dimensions LxWxH in.	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap. lb. (kg)
5253-YE	2-Drum	53.5 x 29 x 17	55.5 (25.1)	58 (219.5)	2,000 (907)
5253-YE-D	(w/drain)				

Regulations: EPA 40 CFR 264.175, SPCC and NPDES

Poly-slim-line™ 6000
Slim is in.

Poly-Slim-Line™ 6000 offers all of the same advantages as our Poly-SpillPallet™ 6000...and more! This addition to our pallet family features a low 12" profile and a handling capacity of 6000 lb. Optional drain.



Poly-slim-line™ 6000

Part #	Description	Dimensions L x W x H in.	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap. lb. (kg)
5400-YE	4-Drum	54 x 54 x 12	91 (41.4)	66 (249.8)	6,000 (2,721.5)
5400-YE-D	(w/drain)				

Regulations: EPA 40 CFR 264.175, SPCC, NPDES and UFC

SAFETY CONTAINMENT SYSTEM



The Poly-Rack™ System

The most efficient Dispensing & Storage System You can

Poly-Racker™

Featured as the base of the Poly-Rack™ System, the unique one-piece Poly-Racker™ securely holds two (2) 55-gallon drums with a large, 102-gallon spill capacity. The deep dispensing well easily holds 5-gallon pails while containing incidental spills and splashes in a ribbed bottom without contaminating the sump. Dispensing wells have scalloped edges so pails can be easily removed. Poly-Racker™ can be transported by forklift and contains two (2) standard drain plugs.



Poly-Stacker™

Combine Poly-Stacker™ and Poly-Racker™ to stack up to (4) drums with a 3000lb. load capacity. Each Poly-Stacker™ holds two (2) 55-gallon drums and can easily be stacked with a forklift. Any spills from the second level fall into the dispensing well for containment and easy clean-up. When combined, Poly-Racker™ and Poly-Stacker™ create the most efficient drum storage and dispensing system available.

Poly-Shelf™

Save money while preventing drips and spills! Increase safety and efficiency when Poly-Shelf™ is added to the Poly-Rack™ System. Easily attaches to Poly-Stacker™ and allows simultaneous dispensing from all drums. A drain hole in the bottom diverts liquids into the Poly-Racker™ dispensing well.

Poly-Racker™ and Poly-Stacker™

Part #	Description	Dimensions (LxWxH in.)	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap.lb. (kg)
6000-YE	Poly-Racker	49 x 53 x 23	105 (47.6)	102 (386.1)	3,000 (1,361)
6002-YE	Poly-Stacker	49 x 40.75 x 12.75	50 (22.7)		2,400 (1,088.6)
6003-YE	Poly-Shelf	17 x 22 x 17.5	8 (3.6)		60 (27.2)

Regulations: EPA 40 CFR 264.175, SPCC, NPDES

Enpac Storage

IBC 2000i™

Intermediate Bulk Containment Made Easy

ENPAC's® integrated IBC 2000i™ gives intermediate bulk container users more versatile spill containment. It fits more than 99% of all IBC dispensing units and features a large sump capacity of 385 gallons; more than exceeding EPA 40 CFR 264.175 regulations. The unit also comes with an integrated 5-gallon pail holder for quick and easy dispensing. The IBC 2000i™ is the only-piece, light weight, 100% polyethylene IBC spill containment unit that is forkliftable and nestable for convenient shipment and storage and it reduces shipping costs. The polyethylene construction will not rust, corrode, or have adverse reactions with chemicals. Optional drain.



Tarps include:

- Fold up working area
- Document pouch
- Durable pockets for weighted corners in harsh weather
- Adjustable corner-cinch bungees



IBC 2000i™

Part #	Description	Pedestal Dimensions in.	Ext. Dimensions in.	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap.lb. (kg)
5469-YE	2000i	56.75 x 56.75 x 29.5	73 x 80.5 x 29.5	262 (118.8)	385 (1,457)	8,000 (3,629)
5469-YE-D	(w/drain)					
5469-TARP	Tarp		76 x 80 x 73.75	14.6 (6.6)		

Regulations: EPA 40 CFR 264.175, SPCC, NPDES and UFC



Poly-overpack® 95 Salvage Drum

Enpac Poly-Overpack® 95 meets group 1 packaging standards and salvage drum regulations. Unlike competing overpacks, Poly-Overpack® 95 safely contains a wide range of hazardous materials including: acids, corrosives and damaged parts-in 55-gallon drums.

Tight, secure and leak-free container closing is simple; place any long object, like a wooden 2x4", in the handy lid slots and turn to screw the lid down tightly. Meets performance-oriented packaging requirement of US DOT and UN regulations.

- Ideal for hazardous drum transport and storage
- Moulded for easy grip and pick-up with standard material handling equipment
- 100% UV protected polyethylene
- Nestable design for efficient storage
- Closed cell gasket in lid seals closure
- Patented castellations in lid allow for easy closing



Poly-overpack® 95 salvage drum

Part#	Top Dia. in. (cm)	Bottom Dia. in. (cm)	Ht. in. (cm)	Weight lb. (kg)	Spill Cap. gal. (L)	Load Cap. lb. (kg)
1237-YE	31.38 (80)	25.75 (65)	41.5 (105)	48 (21.8)	95 (359.6)	650 (295)

Regulations: UN 1H2/X295/S, DOT 49 CFR 173.3(c), EPA SPCC and NPDES

Poly-Overpack® 20 & 30 Salvage Drums

New 20 and 30-gallon Salvage Drums are versatile units that can directly contain solids and sludges with security. With a half turn lid, these ergonomically designed units allow for easy access, unlike competing "hoop-ring designs" that need a bolt and nut. The 20-gallon unit accepts bottles, cans, and 5-gallon pails, while the 30-gallon unit can contain up to 16-gallon drums.



Poly-Overpacks®

Part #	Description	Top Dia.in. (cm)	Bottom Dia. in. (cm)	Ht. in. (cm)	Weight lb. (kg)	Spill Cap.gal. (L)	Load Cap.lb. (kg)
1220-YE	20-Gallon	22.25 (57)	18 (46)	19 (48)	10 (4.5)	20 (75.7)	166 (75.3)
1230-YE	30-Gallon*	22.25 (57)	18 (46)	30 (76)	13 (6)	30 (113.5)	220 (100)

Regulations: UN 1H2/X75/S, UN 1H2/Y100/S, *UN 1H2/X100/S, DOT 49 CFR 173.3 (c),EPA, SPCC and NPDES



Gas Detection

Gas Detector, a life saving equipment that measure and indicate the concentration of certain gases in the working environment. They are typically employed to prevent toxic exposure, fire and oxygen deficiency. They are manufactured either as portable or fixed units and work by signifying high levels of gases through a



series of audible or visible alarms. Standard gas detector could detect from one gas to to four gases, modern multifunctional or multi-gas devices are capable of detecting several gases at once. When the sensors response surpasses a certain pre-set level, an alarm will activate to warn the user. There are various types of detectors available and the majority serves the same function: to monitor and warn of a dangerous gas level. However, when considering what type of detector to install, it is helpful to consider the different sensor technologies.

Electrochemical sensors are most commonly used in the detection of toxic gases like Carbon Monoxide, Chlorine, Hydrogen Sulfide, Sulfur Dioxide, Nitrogen Dioxide, Hydrogen Cyanide, Nitric Oxide and Ammonia.

Catalytic sensors are used to detect combustible gases such as hydrocarbon, and works via catalytic oxidation. As a combustible gas comes into contact with the catalytic surface, It is oxidized and the wiring resistance is changed by heat that is released. A bridge circuit is typically used to indicate the resistance change.

Photo Ionization Detectors (PID) detect toxic or hazardous vapors in ppm from 0.1 to 2000 ppm and measure low concentration of ionizable chemicals like Volatile Organic Compounds (VOCs), such as hydrocarbons and some inorganic vapors by photoionization. A process that treats chemicals with ultraviolet light to convert their molecules into electrically charged ions.



iTrans 2 One or Two Point Fixed Gas Detector

- ▶ Optional HART Communication Protocol
- ▶ Smart Infrared Gas Sensor Technology

iTrans 2 is equipped with intelligent electronics to provide one or two points of detection from a single head for maximum flexibility, superior performance and lower installation costs. With the optional HART Communication Protocol, the iTrans 2 offers remote diagnostics, set-up and calibration.

Features:

- **Gases Detected:**
Toxic, combustible, O₂, CO₂
- **Sensor Technologies :**
Electrochemical, catalytic, infrared
- **Power In / Output :**
12-28VDC / 4-20 mA, RS485 Modbus RTU, relays, optional HART
- **Approvals:**
ATEX pending, CE, IECEx, NRTL/c and CSA, China Ex, CCCF



AirAware NEMA 4 General Purpose Indoor Monitor

- ▶ Light industrial or commercial applications
- ▶ Dual alarm LEDs and push-button operation

AirAware is the logical choice for areas that require continuous monitoring without the need of an explosion-proof enclosure. It provides discrete monitoring with enhanced aesthetics becoming the ideal solution for reliable, low-cost fixed point detection. An optional vanity plate hides the display.

Features:

- **Gases Detected:**
CO, C₁₂, H₂S, NO₂, SO₂, O₂, NH₃, NO, or HCl
- **Sensor Technologies :**
Electrochemical
- **Power In / Output :**
12-24VDC / RS485 Modbus RTU; 4-20 mA, relays & on board audible alarm optional
- **Approvals:**
CSA for non hazardous area



MX 43 Analog and Digital Controller

- ▶ Up to 32 channels via RS-485 Modbus RTU or 4-20 mA (8 max)
- ▶ USB for data logging and automated backup of configuration and firmware

MX 43 is a flexible, fully scalable, easy to use control system that allows up to 32 detectors to be distributed on 8 lines for increased cost savings. The COM 43 application makes programming fast and easy on a PC choosing devices from a pre-programmed library which can then be transferred to the MX43 using a USB cable.

- **Input / Output:**
RS-485 Modbus RTU, 4-20 mA, relays (up to 32), logic input
- **Power In :**
21-28 VDC, 100-240 VAC, optional on-board battery backup
- **Classification Options :**
IP55 (wall-mounted), IP31 (rack)
- **Approvals:**
ATEX, CE, CSA pending, EAC, MED





PS200 Up to Four Gas Personal Monitor GM-PS200-64052Q

- ▶ Auto bump / calibration station (Accessory)
- ▶ Optional internal pump and easy one button operation

PS200 provides unrivaled protection in confined space applications. Monitoring up to 4 gases simultaneously, it can be configured to detect a combination of Methane, Oxygen, Carbon Monoxide, and Hydrogen Sulfide, as well as other flammable gases. An optional internal pump allows for pre-entry checking.

- **Gases Detected:**
LEL, H₂S, O₂, CO
- **Sensor Technologies :**
Electrochemical, catalytic
- **Run Time :**
14 hours, 8 hours (pumped)
- **Alarms:**
Highly visible flashing LED, piercing > 90dB audible
- **Approvals:**
ATEX, CE, IECEx, cCSAus, MED



PS500 Up to Five Gas Personal Monitor

- ▶ Auto bump and calibration station (Accessory)
- ▶ Over 15 Plug-&-Play smart sensors to choose from including PID for VOCs

PS500 can be tailored to detect up to five gases and is particularly useful in noisy environments, featuring a piercing 95dBA alarm. An optional internal pump allows for pre-entry checking. PS500 features a high-impact resistance case and on-board data logging for calibration certificates, data management and event logging.

- **Gases Detected:**
LEL, H₂S, O₂, CO, SO₂, CL₂, NH₃, NO, NO₂, PH₃, VOC, C₆H₆, dual tox CO / H₂S
- **Sensor Technologies :**
Electrochemical, catalytic, PID, NDIR
- **Run Time :**
12 hours min with pump - rechargeable NiMH or 3 AA alkaline
- **Alarms:**
Visual 360° light bar, piercing 95dB audible, TWA, STEL, low battery
- **Approvals:**
ATEX, CE, IECEx, UL, MED





GT 1 Instrument, 7 Applications

- ▶ Auto bump and calibration station (Accessory)
- ▶ Leak detection from PPM to volume gas

GT Series is designed for the gas industry, satisfying all the needs of service technicians within a single unit. Seven modes of operation include: leak test, confined space entry, barhole testing, carbon monoxide, purge, sniffer and pressure leak tightness. Features include data logging, integral flash light and geiger on ppm range.

- **Gases Detected:**
O₂, CO, H₂S, dual tox CO/H₂S, methane (ppm, LEL, % volume)
water gauge
- **Sensor Technologies :**
Electrochemical, catalytic, semiconductor, thermal conductivity,
pressure transducer
- **Battery Life :**
8 hours: 3'C' type batteries - LR14 alkaline or rechargeable
- **Alarms:**
High visibility LEDs, 85dB audible
- **Approvals:**
ATEX, CE, IECEx, CSA, UL



Protégé ZM Zero Maintenance Single Gas Personal Monitor

- ▶ No charging or calibration required
- ▶ Display shows life remaining, gas readings or both

Protégé ZM is an easy-to-use, zero-maintenance gas detection solution that delivers high performance in a small package. Once activated, the Protégé ZM monitor will operate for two years, maintenance and hassle free. Additional features include user configurable alarm set points, bump & calibration reminders and data logging.

- **Gases Detected:**
H₂S, O₂, CO
- **Sensor Technologies :**
Electrochemical
- **Battery Life :**
2years, hibernate mode extends life up to one year on
CO and H₂S
- **Alarms:**
95dB audible, red LED visual, vibrating
- **Approvals:**
ATEX, CE, IECEx, CSA, INMETRO, EAC, IP66/67





Gasurveyor 500

Gas Industry Standard Portable Monitor

- ▶ Auto Bump and Calibration Station (Accessory)
- ▶ Multiple modes including: Combustible gas indicator / confined space monitor / purge / sweep

Offering highly accurate and reliable instrumentation in an extremely robust, anti-static case, the Gasurveyor 500 series measures combustible gases (ppm, %LEL, %Vol) in many applications and optionally O₂, CO and H₂S. Features include configurable operation, auto ranging, internal sample pump and data logging.

- **Gases Detected:**
CO, H₂S, combustible (ppm, LEL, %volume), O₂
- **Sensor Technologies :**
Electrochemical, catalytic, semiconductor, thermal conductivity
- **Battery Life :**
15 hours 4'D' size alkaline or 9 hours rechargeable battery pack
- **Alarms:**
Highly visible flashing LED, typically 85dB audible @ 1m
- **Approvals:**
ATEX, CE, IECEx, CSA, UL, MED



BM 25 / BM 25W

Up to 5 Gas Transportable Monitor (with Wireless Option)

- ▶ Network up to 30 wireless devices (up to 1km / .62 mile line of sight)
- ▶ Intrinsically safe trickle charger for long-term monitoring in classified zones

BM 25 is ideal for mobile or temporary work applications, team protection, area surveillance or locations where fixed detection systems are not suitable. Features include STEL and TWA values, data logging of four months or more and is compatible with the MX 40 controller.

- **Gases Detected:**
Toxic, combustible, O₂, CO₂, Isobutylene
- **Sensor Technologies :**
Electrochemical, catalytic, infrared, PID
- **Battery Life :**
NiMH up to 170 hours operating time, 135 hours in wireless mode
- **Alarms:**
Ultra bright LED beacon visible 360°, 103dB @ 1 meter, relays
- **Approvals:**
ATEX, CE, IECEx, CSA, INMETRO, EAC





3M™ Air Monitors are simple and effective devices that collect certain airborne contaminants through the scientific principle of diffusion. They meet or exceed OSHA accuracy requirements of $\pm 25\%$ accuracy at 95% confidence level for many work contaminants. (18 months shelf life)

Organic Vapour Monitors 3M-3520 / 3M-3530 with Back-up Section (Brown)

Primary and back-up sorbent pads for sampling demanding environments. Especially suited for monitoring compounds like vinyl chloride, butadiene and methylene chloride for which activated carbon shows limited capacity

3M-3520 monitor only
3M-3530 monitor only with analysis for up to 3 compounds per monitor

Formaldehyde Monitors

3M-3720 / 3M-3721 (Purple)

Monitors personnel or work areas in health care, laboratories, and in the chemical, pulp/paper, foundry and textile industries. Analysis procedure is available on request. Not acceptable for STEL monitoring

3M-3720 monitor with analysis
3M-3721 monitor only

Ethylene Oxide Monitors

3M-3550 / 3M-3551 (Rubia)

Design for sampling personnel or work areas in the pharmaceutical, health care and chemical industries. Analysis procedure is available upon request.

3M-3550 monitor with analysis
3M-3551 monitor only

Organic Vapor Monitors

3M-3500 / 3M-3510 (Orange)

Single charcoal sorbent wafer for easy collection of organic vapours. Analysis by gas chromatography

3M-3500 monitor only
3M-3510 monitor with analysis for up to 3 compounds per monitor



Features & Benefits:

- **Simple and Convenient**
There are no batteries, hoses, pumps or equipment to operate
- **Easy to Use**
Just clip the monitor to shirt lapel, collar or pocket
- **Versatile**
3M monitors can also be used for area monitoring, if sufficient air flow exists
- **Product Support**
3M provides reference information needed to use the monitors
- **Analysis Options**
3M monitors can be analysed in the lab of your choice or returned for analysis
- **Confidence**
3M's manufacturing operation is ISO9002 certified and our testing facilities are accredited by the American Industrial Hygiene Association
- **Comfort**
3M monitors are small and lightweight and will not interfere with employee activities





Traffic Cone

- Highly visible traffic cone help to warn hazards on site and roads. It offers an economical and convenient way of barricading off a stretch of work site or road.
- Color: Orange with reflective sleeve
- Size: 18", 24", 30"



Utility Catcher® Clip KE-OMS/UHC

- The Utility Catcher® clip slips over a belt or heavy waistband
- Originally designed as an easy and convenient way to keep up with a hard hat when not in use
- A multipurpose clip that can be used to keep up with tools or other PPE items
- Color: Orange, Yellow, Green, Blue



1939 Glove Guard® Glove Clip KE-1939

- The Glove Guard® clip is the original glove clip and the only one with the patented safety breakaway design. It's implementation can drastically reduce glove replacement costs and hand injuries because workers will have their gloves with them when needed.
- It weights just 3/4oz and measures 5.25" long and is made from an engineered grade material that holds its memory, resists flex fatigue, is non-conductive and non-corrosive.
- Color: Blue, Red, Green, Yellow



Safety sign

Industrial safety sign spell out the specific actions to avoid, to look out for and action to be taken to ensure safety.

Available in:

- Self-adhesive vinyl
- Aluminium
- Acrylic plastic



Support Belt SW-2910-SB-9308

Safeware back support belt provides comfortable relief from lower back strain when proper lifting techniques is adopt

- Extra wide 1.2" width suspenders
- Fully enclosed spring steel for flexible, contoured support
- Easy adjustable elastic outer panels for added lower back support
- Comfortable
- Ergonomically designed

Color: Black
Size: S (28" - 36")
 M (34" - 38")
 L (36" - 42")
 XL (40" - 45")
 XXL (45" - 47")





Zetex® Fire Blanket 3732

- Zetex® 3732 Fire Blankets are used extensively on board ships, in factories, and in commercial buildings. It is an ideal fire suppression tool in the household, especially for kitchen, dustbin, and other small fires
- The blanket is a woven fiberglass fabric and comes in a satin weave (i.e. smooth, soft, and tightly weaved), which protects against skin irritation
- The fabric is only 0.45mm thick and can be easily wrapped around uneven surfaces. It provides an effective outer layer protection against unwanted contact with heat
- All Zetex Fire Blankets meet or exceed British Standards (BS) 476 Part 6. The blanket comes in sewn standard sizes of 4' x 4', 4' x 6', 6' x 6'
- Zetex® fire blankets come in compact PVC bags rectangular or containers for easy mounting at a convenient location



CPE shoes cover SW-CN506

- Made of low density CPE film making them liquid impervious and lint-free
- An economical alternative when a low particulate material is needed to protect against splash



1 or 2 ply pleat nurse mask

SW-CN103-1P (**Single ply**) / SW-CN103-2P (**Double ply**)

- Made of paper
- With comfortable ear loops



Disposable Dust mask SW123-CN104

- Light weight & easy to breathe
- Good filtering efficiency
- Comfortable to wear
- Weight: 240 gms



Non-Woven 3-Ply Mask-Ear-Loop SW-CN102-3P

- Without glass fibers
- Hypoallergenic
- Very low resistance to breathing
- Nose filtration capacity
- Perfect fitting





Tyvek fabric is tough, yet extremely light and soft. Tyvek is made for millions of fine, continuous fibres of high density polyethylene that flash-spun and head-bonded into a fabric that is permeable to air and water vapour. Tyvek breathes, yet repels water based liquids and aerosols. It blocks particles and fibres down to sub micron sizes. Plus it's non-linting and silicon free.



Tyvek Boot Cover
DP-14444

- Height: 16.5" elastic top
- White colour
- One size fits all



Tyvek Shoe Cover
DP-14440

- Come with elastic top
- White colour
- One size fits all



Tyvek Lab Coat
DP-14300

- Snap closure
- Long sleeves
- White colour
- Size: S,M,L,XL

Vinyl powdered & powder free disposable gloves PD-PV281-039

- Perfect for the latex-sensitive
- These vinyl gloves contain no allergens
- Excellent sensitivity and barrier protection
- Treated with absorbable dusting powder



Non-woven accordion clip bouffant cap SW-CN215

- Non-woven polypropylene spun bounded material
- Elastic headband offers a light weight, comfortable and non-slip fit



Non-woven peaked cap with elasticated snood SW-CN201

- Made of spun bonded polypropylene
- Back-elastic cap with snood for total hair cover



Non-woven bouffant cap with peak SW-CN202

- Made of spun bonded polypropylene
- With non-woven peak





First Aid Kits for Industrial Health

Contents	Box A	Box B	Box C
	For 25 Workers 30.5 x 21 x 12 cm Quantity	For 50 Workers 35 x 26.5 x 12 cm Quantity	For 100 Workers 39.3 x 30.5 x 12 cm Quantity
Absorbent Gauze 10's	5	10	15
Basic advice on First Aid at work	1	1	1
Crepe Bandage 2" (5cm)	1	2	4
Crepe Bandage 4" (10cm)	1	3	6
Disposable Gloves (Pairs)	2	2	4
Disposable Resuscitation pack	1	1	2
Europlast 10's	2	4	4
Eye Pad (Sterile)	2	4	6
Eye Shield	2	4	6
Hypoallergenic Tape	1	1	2
Pen Torch Light	1	1	1
Safety Pin 12's	4	4	6
Dressing Scissors	1	1	1
Triangular Bandage	4	4	6

NB. Sterile saline/ water is only recommended for places with no water supply

Recommended minimum contents of First Aid Box by the Ministry of Manpower (MOM)

Box A - For use where the no. of workers does not exceed 25

Box B - For use by every 50 workers

Box C - For use by every 100 workers



First Aid Kits for Workplace

Contents	Box No 1F	Box No 2F	Box No 51F
	For 10 Workers 30.5 x 21 x 12 cm Quantity	Exceed 10 but does not more than 50 35 x 26.5 x 12 cm Quantity	Not exceed 50 39.3 x 30.5 x 12 cm Quantity
Absorbent gauze 10's	1	2	2
Acriflavine solution	1	1	1
Antiseptic cream	1	1	1
Antiseptic solution	1	1	1
Basic advice on first aid at work	1	1	1
Constrictive bandage	1	1	1
Cotton ball 10's	1	2	2
Crepe bandage 2"	1	2	2
Crepe bandage 3"	1	1	1
Disposable glove (Pair)	2	3	1
Disposable resuscitation pack	1	1	1
Dressing forceps	1	1	1
Dressing scissors	1	1	1
Europlast 10's	2	3	4
Hypoallergenic tape 1/2"	1	1	1
Povidone iodine solution	1	1	1
Safety pin 12's	1	2	2
Singlefix finger dressing (Sterile)	2	4	2
Surgifix size 1-2	2	4	2
Surgifix size 3-4	1	2	1
Surgifix size 5-6	1	2	1
Triangular bandage	2	4	4

* Sterile saline/ water is only recommended for places with no water supply

Box 1F - For use in work place where the number of person employed does not exceed 10

Box 2F - This complete kit is for use in work place where the number of persons employed exceed 10 but does not exceed 50. Where more than 50 persons are employed, an additional cabinet for every additional 50 persons should be provided

Box 51F - This complete kit is for use in work place where the number of persons employed does not exceed 50- where First Aiders are available and where a comprehensive First Aid kit is required. This portable kit is recommended for building sites, road construction sites, quarries and oil and gas explosion sites

Box A

LC-FA-BOX-A-NEW



Box B

LC-FA-BOX-B-NEW



Box C

LC-FA-BOX-C-NEW



No 1F

LC-FA-BOX-1F



No 2F

LC-FA-BOX-2F



Safety Training Courses

CPR &
AED Training

Occupational
First Aid
Refresher Course



WORK-AT-HEIGHT COURSES

- ▶ Work-At-Height Course For Supervisors (WAHC-S)
- ▶ Work-At-Height Course for Workers (WAHC-W)



EQUIPMENT INSPECTOR COURSE

- ▶ Equipment Inspector for Technical Rope and Rescue Equipment Course (EITRREC)
 - PPE against fall from height
 - Technical rope & rescue equipment



TECHNICAL ROPE RESCUE COURSES

- ▶ Height and Confined Space Rescue Operations Course (Level I) (HCSROC-1)
- ▶ Height and Confined Space Rescue Operations Course (Level II) (HCSROC-2)
- ▶ Height and Confined Space Rescue Awareness Course (HCSRAC)



BIZSAFE COURSES

- ▶ Workshop for CEO / Top Management (BIZSAFE LEVEL 1)
- ▶ Develop a Risk Implementation Plan (BIZSAFE LEVEL 2)
- ▶ Develop a Workplace Safety and Health Management System (WSHMS) Implementation System (BIZSAFE LEVEL 4)



FIRST AID COURSES

- ▶ Occupational First Aid
- ▶ Occupational First Aid Refresher Course
- ▶ CPR & AED Training



OTHER COURSES

- ▶ Respiratory Training Course
- ▶ Hearing Conservation Training
- ▶ Gas Monitoring Training Course (with instrument)
- ▶ Spill Control Training

Our Certification



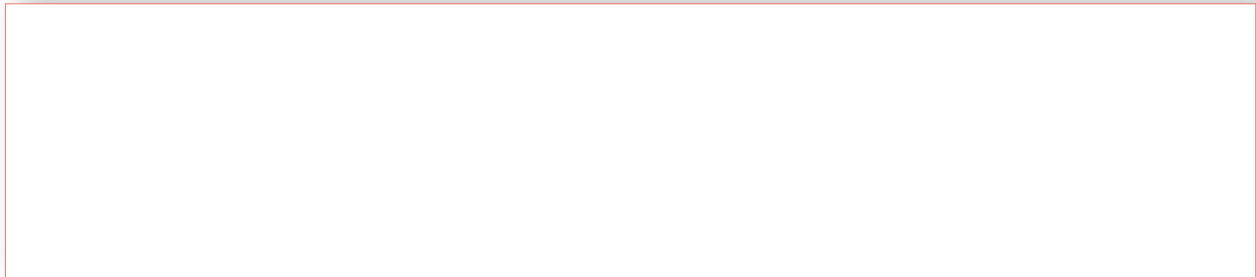
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