



RESPIREX™



FIRE & RESCUE PRODUCT CATALOGUE

THE RESPIREX GROUP

FIRE & RESCUE PRODUCT CATALOGUE

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The Respirex Group

Advanced Technical Textile & Polymer Engineering

The Respirex™ Group's expertise spans advanced materials science, precision engineering, and continuous product innovation. At our Redhill facility, we design and manufacture high-performance technical textiles – from multi-layer chemical barrier laminates to coated drop-stitch fabrics capable of forming stable, load-bearing platforms under pressure – engineered to perform reliably in the most demanding operational environments. Our Workmaster™ facility in Crawley extends this capability into injection-moulded safety footwear, engineered to protect against chemical exposure, high voltages, and flame hazards through specialised compound formulation and precision tooling. Across both sites, digital cutting, high-integrity seam technologies, and an on-site materials testing laboratory ensure that every product meets recognised international standards for performance, seam strength, and chemical resistance.

MFC International, our Rhondda Valley manufacturing site, specialises in mission-ready inflatable systems for military, civil defence, and emergency response operations. Its portfolio ranges from high-pressure lifting bags capable of raising loads of up to 100 tonnes – for vehicle recovery, military engineering, and rescue tasks – to inflatable shelters, decontamination systems, water rescue craft, rapid-deployment fuel and liquid storage, and a wide range of specialist inflatable structures. Designed for rapid deployment and long-term reliability in challenging field conditions, MFC International's solutions support logistics, humanitarian assistance, disaster response, and tactical operations for military and government organisations worldwide.



RESPIREX™

Living + Breathing Personal Protection

Chemical protective clothing & accessories

- Gas-tight suits
- Chemical splash suits
- Powered respirator suits
- CBRN Body bags & containment solutions



MFC International

by RESPIREX

HELPING YOU DELIVER RESCUE UNDER PRESSURE

Inflatable structures and rescue equipment

- Inflatable shelters
- Inflatable decontamination showers
- Lifting bags
- Inflatable walkways
- Fully inflatable water craft
- Water & fuel storage
- Ballast bags



workMaster™
by RESPIREX

Specialist Protective Footwear

Specialist Protective Footwear

- CBRN Protective Footwear
- Chemical Safety Boots
- Dielectric (High Voltage) Safety Boots



serviceTech
by RESPIREX

After-sales Care & Support

- Product Training
- On-Site Servicing
- Repairs

GAS-TIGHT SUITS FOR EMERGENCY TEAMS



BACKGROUND:

Gas-tight suits for emergency teams protect responders and chemical workers from dangerous and toxic chemicals in liquid or gaseous form. They are used in areas that are considered immediately dangerous to life and health (IDLH).

Our **Type 1A-ET** suits are designed for Self-Contained Breathing Apparatus (SCBA) worn inside the suit, which provides the greatest protection to the emergency responder and simplifies decontamination after an incident.

All gas-tight suits are leak-tightness tested during manufacture.

APPLICATIONS:

EN 943-2 ET Suits

- HAZMAT Incidents
- CBRN Incidents
- Chemical Manufacture, Handling & transport
- Petrochemical
- Shipping
- Bomb disposal

SUIT FAMILIES

Respirex manufacture three distinct families of Type 1A (ET) gas-tight suits; the best suit for your particular application will depend on the usage environment and how often suits are worn

GTL - *Single-Use, Regular Robustness Suit*

Material: Chemprotex™ 400

Life: 7 Years Maintenance Free
10 Year Shelf Life

Features: Fixed Kembrok™ gloves with outer neoprene glove, sock feet with splash-guard outer leg. ESD Option for ATEX environments.



**USE
1x**

GTR - *Limited Life, Regular Robustness Suit*

Materials: Chemprotex™ X, Tychem® TK

Life: 5 Years Maintenance Free*
10 Year Shelf Life

Features: Gas-tight locking cuff system for easy glove changes, detachable Hazmax™ FPA boots or sock feet with outer splash-guard leg. Options for pass through & equipment attachment points

**Suits may be reused up to 5 times, depending on damage and contamination*



**USE
5x***

GTB - *Reusable, Enhanced Robustness*

Materials: Viton®/Butyl/Viton® (VBV), Viton® Laminate

Life: 15 Year Shelf Life
Re-test after each use or annually

Features: Gas-tight locking cuff system for easy glove changes, detachable Hazmax™ FPA boots or sock feet with outer splash-guard leg. Options for pass through, equipment attachment points, suit ventilation and fall arrest.

†Suits can be reused until they are no longer repairable, or cannot be decontaminated



**FULLY
REUSABLE†**

GTL™ LIGHTWEIGHT SUIT



A lightweight, fully encapsulating, Type 1A - ET single-use regular robustness gas-tight suit, designed to protect the emergency responder against toxic, corrosive gases, liquids and solid chemicals.

- Ten year shelf life (seven years maintenance free)
- ESD Version available for use in ATEX atmospheres
- Compatible with the Permasure® Toxicity Modeller for calculation of safe working time with a given chemical based on real world conditions
- Fully encapsulating design to allow breathing apparatus to be worn inside the suit
- Heavy-duty 122cm (48") long gas-tight zip, fitted to the right hand side of the suit; a flap with a hook and loop fastener fitted to cover the teeth of the zip
- Adjustable internal support belt and bat-wing sleeves for optimum wearer comfort
- Flexible, multi-laminated, anti-mist visor giving clear undistorted vision
- Chemically protective, laminated glove welded to the suit material with an elasticated over-sleeve to prevent splash entering the supplied Neoprene outer gloves
- Integral sock feet with outer splash guard legs for use with F3A rated safety wellingtons (e.g. Hazmaz™ FPA)
- Pressure test & inspection required at year seven



Testing & Certification:



TYPE 1a-ET, EN 943-2:2019(ET)

Protective clothing against liquid and gaseous chemicals, aerosols and solid particles - Requirements for suits for Emergency Teams



EN 1073-2:2002, Class 3 (NPF >9090)

Protective clothing against radioactive contamination



FINABEL 0.7.C

Chemical Warfare Agents



EN 14126:2003

Protective Clothing Against Infective Agents



SOLAS 1974/1988

Reg. II-2, 19.3.6.1



Permasure®
App
Compatible

GTL™ LIGHTWEIGHT SUIT

FABRIC OPTIONS

Chemprotex™ 400

A high performance chemical barrier material manufactured by laminating spunbonded polythene to a 7-layer barrier film with a protective outer coating.



Flex



Tear



Puncture



>480mins



Permasure®

SUIT OPTIONS



GTL ESD Suit for ATEX zones

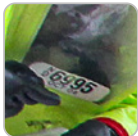
Tested in accordance with IEC 60079-32-2:2015 and CEN/CLC/TR 16832:2015 the GTL ESD suit is suitable for use in the following ATEX environments:

Dust Ex atmospheres: **ZONES 20, 21 & 22***

Gas Ex atmospheres: **ZONES 0, 1 & 2**

The ESD version of the GTL suit incorporates attached antistatic butyl outer gloves and covered exhalation valves. **N.B.** The GTL ESD suit requires the use of ESD F3A safety wellingtons (e.g. Hazmaz™ ESD FPA)

** A risk assessment will be required in conductive dust environments*



Suit/Brigade ID

Customer Identification names & codes can be added to the base of the visor or on the back of the suit.

GTR LIMITED LIFE SUIT



Fully encapsulating **Type 1a - ET** regular robustness gas-tight suit manufactured in a choice of high performance, multi-layer, non-woven, chemical barrier fabrics.

- Fully encapsulating design to allow breathing apparatus to be worn inside the suit
- Heavy duty 122cm (48") long gas-tight zip, fitted to the right hand side of the suit - flap with a hook and loop fastener fitted to cover the teeth of the zip
- Adjustable internal support belt and bat-wing sleeves for optimal wearer comfort
- Flexible, multi-laminated, anti-mist visor giving clear undistorted vision
- Detachable gloves fitted using gas-tight locking cuff
- Bonded inner & outer gloves provide chemical and mechanical protection
- Supplied with detachable Hazmax™ FPA safety boots for speed of donning and increased user comfort; sock feet with outer splash guard legs available as an option
- Ten year shelf-life
- Maintenance free for the first five years unless used
- Pressure test annually from year five or after each use
- Reusable training suits also available



Testing & Certification:



TYPE 1a-ET, EN 943-2:2019(ET)

Protective clothing against liquid and gaseous chemicals, aerosols and solid particles - Requirements for suits for Emergency Teams



EN 1073-2:2002, Class 3 (NPF >9090)

Protective clothing against radioactive contamination



FINABEL 0.7.C

Chemical Warfare Agents



EN 14126:2003

Protective Clothing Against Infective Agents



SOLAS 1974/1988

Reg. II-2, 19.3.6.1

GTR LIMITED LIFE SUIT

FABRIC OPTIONS

Chemprotex™ X

Two layers of the Chemprotex™ 400 barrier film sandwiched around a spunbonded polythene core.



Flex



Tear



Puncture



>480mins



Permasure®



DuPont™ Tychem® TK

A high strength, tear resistant, 100% nonwoven polyester staple fabric sandwiched between two proprietary non-halogenated barrier films.



Flex



Tear



Puncture



>480mins



DuPont™ and Tychem® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company

SUIT OPTIONS



Anchor Hook

External equipment attachment point



Torch Ring Attachment

External equipment attachment point



DSU Attachment

External equipment attachment point for a Distress Signal Unit (DSU)



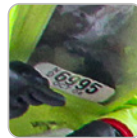
Personal Line Attachment

External equipment attachment point



Pass-Through

Allows the connection of a second cylinder or an air-line to the second man attachment on the breathing apparatus during decontamination.



Suit/Brigade ID

Customer Identification names & codes can be added to the base of the visor or on the back of the suit.

GTB™ REUSABLE SUIT



The GTB is a Type 1A - ET enhanced robustness gas-tight suit suitable for emergency responders and in industrial applications such as HF alkylation facilities. The fully encapsulating suit covers the breathing apparatus and facemask, simplifying decontamination. Manufactured in either Viton®/Butyl/Viton® (VBV), our hardest wearing material, or Laminate Viton®, our lightest reusable Type 1A-ET suit fabric, with excellent chemical permeation resistance.

- Heavy-duty gas-tight zip fitted to the right hand side of the suit (running from the thigh to the top of the head), protected by double storm flaps with a hook and loop fastener
- Large double-layer rigid visor, provides clear undistorted vision
- Detachable gloves fitted using gas-tight locking cuff
- Bonded inner & outer gloves provide chemical and mechanical protection
- Supplied with detachable Hazmax™ FPA safety boots for speed of donning and increased user comfort, sock feet with outer splash guards available as an option
- Adjustable internal waist belt allows wearers of varying sizes to use the suit comfortably
- Fifteen year shelf life
- Pressure test required annually or after each use
- Reusable training suits also available



Testing & Certification:



TYPE 1a, EN 943-2:2019(ET)

Protective clothing against liquid and gaseous chemicals, aerosols and solid particles - Requirements for suits for Emergency Teams



EN 1073-2:2002, Class 3 (NPF >9090)

Protective clothing against radioactive contamination



FINABEL 0.7.C

Chemical Warfare Agents



EN 14126:2003

Protective Clothing Against Infective Agents

GTB™ REUSABLE SUIT

FABRIC OPTIONS

Viton®/Butyl/Viton®

A polyester fabric coated one side with orange fireproof DuPont™ Viton® with a black fireproof butyl undercoat and one side with black fireproof Viton® with a black fireproof butyl undercoat.



Flex



Tear



Puncture



>480mins



Viton® Laminate

A Polyester fabric coated on the outer face with DuPont™ Viton® with a weldable polyurethane inner face and an insert chemical barrier film.



Flex



Tear



Puncture



>480mins

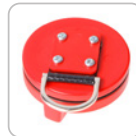


SUIT OPTIONS



Anchor Hook

External equipment attachment point



Torch Ring Attachment

External equipment attachment point



DSU Attachment

External equipment attachment point for a Distress Signal Unit (DSU)



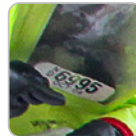
Personal Line Attachment

External equipment attachment point



Pass-Through

Allows connection of a second cylinder or air-line to the second man attachment on the SCBA



Suit/Brigade ID

Customer Identification names & codes can be added to the base of the visor or on the back of the suit.



Suit Ventilation (GTVB)

Adjustable ventilation system for the arms and legs of the suit, fed from the wearers BA set.



Fall Arrest

For use with an internal fall arrest harness with a back D ring fixing and used in conjunction with a retractable type fall arrester

GAS-TIGHT SUITS FOR INDUSTRY



BACKGROUND:

The GLS range of suits were developed at the request of several leading European chemical manufacturers and represent a new concept in lightweight industrial gas-tight suits. They are **single-use Type 1** garments that are comfortable, light and flexible.

Type 1a GLS suits are designed for Self-Contained Breathing Apparatus (SCBA) worn inside the suit, which provides the greatest protection to the emergency responder and simplifies decontamination after an incident. **Type 1b** GLS suits are for SCBA worn externally and can be useful when working in confined spaces, as the SCBA cylinder can be slipped off the shoulders and passed forward. **Type 1c** suits provide breathing air via an air-line and are commonly used in industrial applications.

They are also suitable for use in a number of different EX zones (see the individual suits for details).

APPLICATIONS:

EN 943-1 Industrial Suits

- Industrial fire brigades
- Chemical industry
- Petrochemical
- Pharmaceutical

GLS 300 A

The GLS 300A suit in Chemprotex™ 300 is a single use Type 1a fully encapsulating gas-tight chemical protection suit covering both the wearer and the breathing apparatus. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction. It incorporates attached antistatic chemical gloves, sock feet and a lightweight gas-tight zip.

- Large laminated anti-mist visor gives clear undistorted vision
- Twin exhalation valves to side of hood to ensure that the suit maintains a comfortable working pressure
- Lightweight gas-tight zip fitted to rear of suit, closing at the top and covered with a double storm flap with hook and loop fastener
- Chemically protective anti-static glove attached to the suit
- Integral socks in Chemprotex™ 300 material with splash-guard outer legs allowing the wearing of customer's own boots. (Boots not included)
- Must be worn with ESD footwear to ensure a conductive path to ground [when used in potentially explosive atmospheres]



Testing & Certification:



TYPE 1a, EN943-1:2015+A1:2019
Gas-Tight Chemical Protective Suits



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing



ATEX Tested for use in explosive environments:



Dust Ex atmospheres: ZONES 20, 21 & 22
Gas Ex atmospheres: ZONES 1 & 2

Tested in accordance with EN IEC 60079-32-2: (2015)
and CEN/CLC/TR 16832:2015



Permasure®
App
Compatible

GLS 300 B



The GLS 300B suit in Chemprotex™ 300 is a single use Type 1b gas-tight chemical protection suit designed for use with breathing apparatus worn outside the suit, a facemask and filter or airline respirator. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction. It incorporates permanently attached antistatic chemical gloves, sock feet and a lightweight gas-tight zip.

- Integral hood with flexible facemask seal with a protective outer chemical barrier fabric. For a gas and liquid-tight seal the protective outer fabric should be taped to the facemask
- Lightweight gas-tight zip fitted across the shoulders in rear of suit, with double external cover flaps with a hook and loop fastener
- Chemically protective anti-static glove attached to the suit
- Integral socks in Chemprotex™ 300 material with splash-guard outer legs allowing the wearing of customer's own boots. (Boots not included)
- Must be worn with ESD footwear to ensure a conductive path to ground [when used in potentially explosive atmospheres]



Testing & Certification:



TYPE 1b, EN943-1:2015+A1:2019
Gas-Tight Chemical Protective Suits



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing

ATEX Tested for use in explosive environments:



Dust Ex atmospheres: ZONES 20, 21 & 22
Gas Ex atmospheres: ZONES 0, 1 & 2
Tested in accordance with EN IEC 60079-32-2: (2015)
and CEN/CLC/TR 16832:2015



Perasure®
App
Compatible

GLS 300 C

The GLS 300C suit in Chemprotex™ 300 is a single use air-fed gas-tight **Type 1c** chemical protection suit for use with breathable air supplied from an external compressed air source providing positive pressure. The suit combines the benefits of a lightweight high-performance chemical barrier fabric with a gas-tight construction to method 2 of ISO 17491-1.

- Semi-rigid laminated visor
- Lightweight gas-tight zip fitted across the chest covered by double external storm flaps with hook and loop fastener
- Chemically protective anti-static glove attached to the suit
- Integral socks in Chemprotex™ 300 material with splash-guard outer legs
- Must be worn with ESD footwear when used in potentially explosive atmospheres
- The air distribution system in the hood and air permeable collar provide cooling air through the suit
- For use with Bartels & Rieger two piece air control valve (ref. RVD039W), supplied separately
- The hood design provides high protection without the need for a tight-fitting face piece, which means:
 - Can be used by wearers with facial hair or glasses
 - Training needs are reduced
 - Face-fit testing is not required



Testing & Certification:



TYPE 1c, EN943-1:2015+A1:2019
Gas-Tight Chemical Protective Suits



TYPE 3, EN14605:2005+A1:2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1:2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1:2009
Limited Spray-Tight Chemical Protective Clothing

ATEX Tested for use in explosive environments:



Dust Ex atmospheres: ZONES 20, 21 & 22

Gas Ex atmospheres: ZONES 1 & 2

Tested in accordance with EN IEC 60079-32-2: (2015) and
CEN/CLC/TR 16832:2015



PermaSure®
App
Compatible

GLS SUITS

FABRIC OPTION

Chemprotex™ 300 Fabric

A lightweight and highly flexible chemical barrier material manufactured by laminating spunbonded polythene to a 5-layer barrier film with a protective outer coating.



Flex



Tear



Puncture



>480mins



Permasure®



ACCESSORIES



Air Control Valve & Hose

Adjustable air control valve with integral warning whistle. Worn externally the valve connects to an external air supply and the breathing air input of the GLS 300C suit. The valve has been designed for ease of decontamination and to prevent the build up of electrostatic charge. The warning whistle operates at pressures below 3.5 bar.

Working pressure: 3.5-4.5 bar

LIQUID-TIGHT SUITS



BACKGROUND:

Limited-life Type 3 liquid tight chemical splash suits provide an economical solution for dealing with a wide range of chemical and CBRN hazards. Particularly suitable for applications where suits are needed infrequently, where the type of hazard is unknown, or where decontamination facilities are limited - they are widely used by fire brigades, police, civil defence, transport and shipping companies.

APPLICATIONS:

- HAZMAT Incidents
- CBRN Incidents
- Chemical Manufacture, Handling & transport
- Shipping
- Decontamination

SC1 SPLASH SUIT

Lightweight, Type 3 liquid-tight chemical splash contamination suit, designed for use with breathing apparatus worn outside the suit, or with a face mask and filter.

- Compatible with the Permasure® Toxicity Modeller for calculation of safe working time with a given chemical based on real world conditions
- One-piece construction in Chemprotex™ 300
- Integral hood, with Neoprene rubber face grommet, to seal around the wearer's face mask
- 91cm (36") Nylon zip, fitted across the shoulders in the rear of the suit, with double external zip-flaps sealed with double-sided tape
- Kemblok™ chemically protective laminated glove, welded to the suit material
- Supplied with separate neoprene outer gloves for mechanical protection
- Integral socks, with plain outer leg, allowing the wearing of customer's own safety boots (boots not included)

Testing & Certification:



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing



FINABEL 0.7.C
Chemical Warfare Agents



EN 14126:2003
Protective Clothing Against Infective Agents



EN 1073-2:2002
Protective clothing against radioactive contamination



EN1149-1:2006
Antistatic protective clothing



SOLAS 1974/1988
Reg. II-2, 19.3.6.1



Permasure®
App
Compatible

SC1 ULTRA SPLASH SUIT

Lightweight, **Type 3** liquid-tight chemical splash contamination suit, designed for use with breathing apparatus worn outside the suit, or with a face mask and filter.

- Compatible with the PermaSure® Toxicity Modeller for calculation of safe working time with a given chemical based on real world conditions
- One-piece construction in Chemprotex™ 300
- Integral hood, with Neoprene rubber face grommet, to seal around the wearer's face mask
- 91cm (36") Nylon zip, fitted across the shoulders in the rear of the suit, with double external zip-flaps sealed with hook and loop fasteners
- Kemblok™ chemically protective laminated glove, welded to the suit material with elasticated over sleeve
- Supplied with separate neoprene outer gloves for mechanical protection
- Integral socks, with plain outer leg, allowing the wearing of customer's own safety boots (boots not included)



Testing & Certification:



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing



FINABEL 0.7.C
Chemical Warfare Agents



EN 14126:2003
Protective Clothing Against Infective Agents



EN 1073-2:2002
Protective clothing against radioactive contamination



EN1149-1:2006
Antistatic protective clothing



SOLAS 1974/1988
Reg. II-2, 19.3.6.1



PermaSure®
App
Compatible



PermaSure®
App
Compatible

SPLASHMASTER™ COVERALL

Lightweight, Type 3 liquid-tight, limited-life coverall, designed for use with a face mask and filter or appropriate face and head protection.

- Compatible with the PermaSure® Toxicity Modeller for calculation of safe working time with a given chemical based on real world conditions
 - One-piece construction in blue Chemprotex™ 300
 - Integral elasticated hood
 - Adjustable throat flap for improved seal around the base of the facemask
 - Nylon zip, fitted vertically from groin to neck with twin flaps and hook and loop fastener to seal
 - Unique zip-flap arrangement ensures liquid tight performance without the need for taping the flap
 - Elasticated legs
 - Elasticated wrists with thumb loop
-

Testing & Certification:



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing



EN 14126:2003
Protective Clothing Against Infective Agents



EN1149-5:2018
Antistatic protective clothing

DECONTAMINATION SUIT

A reusable liquid-tight chemical protection one-piece suit manufactured in Viton®/Butyl/Viton® (VBV) or Butyl. The suit is specifically designed for CBRN decontamination scenarios and features a twin facemask seal in the hood for the best possible fit with popular CBRN full facemasks.

- Protection against liquid chemicals (Type 3), infective agents* and chemical warfare agents*
- Gas-tight locking cuff system or push-fit liquid-tight cuff for changing gloves and fitted with customers choice of chemical protective gloves.
- Double elasticated ankles with stirrup on inner leg
- Adjustable neck flap with hook and loop fastener.
- Nylon coarse tooth zip running from thigh to collar for ease of donning, protected by double storm flaps with hook and loop fastener.
- Worn with customers own choice of chemical resistant safety boots, e.g. Hazmax™ CBRN



Testing & Certification:



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



FINABEL 0.7.C*
Chemical Warfare Agents



EN 14126:2003*
Protective Clothing Against Infective Agents

** Warfare agent and infective agent test data is currently only available for the VBV material. The Butyl material is going through testing.*

POWERED AIR SUITS



BACKGROUND:

Powered air systems provide continuous filtered air to the user increasing wearer comfort and allowing the user to work for longer due to the reduced physical burden.

The loose-fitting hood design of powered respirator suits (and hoods) provides high protection without the need for a tight-fitting face piece, which means:

- Many wearers feel less constricted
- They can be used by wearers with facial hair
- Training needs are reduced
- Face-fit testing is not required
- The unobstructed view of the wearers face provides reassurance to casualties and aids communication

APPLICATIONS:

- CBRN Incidents
- Casualty Triage & Decontamination
- Infectious Diseases

PRPS³ SUIT

The Powered Respirator Protective Suit (PRPS) is a one-piece gas-tight chemical protective suit for use by emergency response personnel after a CBRN incident. The suit was developed in conjunction with the UK National Health Service and is now widely used in the UK and overseas.

- Manufactured from DuPont™ Tychem® TK, a high performance, multi-layer chemical barrier material
- Respiratory system comprising a battery powered CleanAir® Chemical 2F powered respirator fitted with a visual display unit mounted inside the suit at the base of the visor, and audible alarm
- Battery pack provides 1 hour operational use, plus 15 minutes for decontamination
- Two CleanAIR® CBRN (A3B2E2K2P3) filters provide protection against chemical and biological warfare agents
- Heavy duty gas-tight zip fitted across the chest enclosed by double external storm flaps with hook and loop fastener
- Dual glove system comprising protective outer gloves bonded to inner Kembrok™ laminate gloves
- Gas-tight locking cuff mechanism
- Highly chemically resistant Hazmax™ FPA safety boots permanently attached to suit
- Improved operational duration over gas-tight SCBA suits
- Pressure test every three years or after each use

Options:

- Reusable PVC training suit - PRPS(T)
- Choice of lightweight dexterity gloves for medical tasks or heavy-duty gloves for increased physical protection



Testing & Certification:



TYPE 1c*, EN 943-2:2019

Protective clothing against liquid and gaseous chemicals, aerosols and solid particles



FINABEL 0.7.C

Chemical Warfare Agents



EN 14126:2003

Protective Clothing Against Infective Agents



EN12941:1998+A2:2008

Respiratory protective devices

**The Powered Respirator Protective Suit (PRPS) has been assessed by a notified body as satisfying Annex II of the PPE regulation (EU) 2016/425 using technical standards EN 943-2 'Protective clothing against liquid and gaseous chemicals, including liquid aerosols and solid particles Part 2: Performance requirements for "gas-tight" (Type 1) chemical protective suits for emergency teams (ET)' and EN 12941 'Respiratory protective devices - Powered filtering devices incorporating a helmet or a hood - Requirements, testing, marking'.*

RJS SUIT



The RJS Chemical Respirator Suit in Chemprotex™ 300 is a single-use one-piece Type 3 chemical protective suit designed to protect the wearer against a broad range of industrial chemicals and other agents found in civil emergency situations.

- Air drawn through the filters enters through a breathing tube in the hood and exits through exhaust valves in the knees, providing a cooling air stream across the body
- Chest zip with double storm flap and hook and loop fastener - no taping is required to seal
- Head-up display in the hood and rear status display window indicate powered respirator status, hours used and any warnings
- Suit achieves a Type 3 classification without the need for taping at the zip flap, sleeves or ankles, simplifying the donning & doffing process
- Two versions of the RJS are available:

Clinical Version: With a cuff ring for use with lightweight medical gloves and a bootie foot with a non-slip sole and elasticated ankle for use with footwear worn inside the suit

Standard Version: With attached Kembrok™ chemical barrier gloves with separate neoprene outer gloves and an Integral sock foot with outer splash guard leg for use with safety boots worn outside the suit



CleanAir® Chemical 2F
Powered Respirator

Testing & Certification:



TYPE 3, EN14605:2005+A1 2009
Liquid-Tight Chemical Protective Clothing



TYPE 4, EN14605:2005+A1 2009
Spray-Tight Chemical Protective Clothing



TYPE 5, EN13982-1:2004+A1:2010
Particulate Protective Clothing



TYPE 6, EN13034:2005+A1 2009
Limited Spray-Tight Chemical Protective Clothing



FINABEL 0.7.C
Chemical Warfare Agents



EN 14126:2003
Protective Clothing Against Infective Agents



EN12941:1998+A2:2008
Respiratory protective devices

CLEANAIR® CHEMICAL 2F POWERED RESPIRATOR

Worn inside the RJS suit, with the filters mounted externally the Chemical 2F powered respirator combines sophisticated electronics with a durable easy-clean construction. The auto-closing inlets prevent contamination entering the suit while the filters are being changed, while the smart flow control system maintains a constant airflow regardless of filter loading or battery charge.

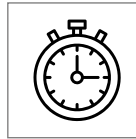


Rechargeable or primary (single-use, 10 year shelf life) batteries are available and a remote audio and visual alarm fitted in the suit hood indicates when safe working time has elapsed or if there is an issue with the respirator. CleanAIR® **CBRN (A3B2E2K2P3) filters** are supplied as standard, providing protection against chemical and biological warfare agents, but a range of other filters are available.

BENEFITS OF POWERED RESPIRATOR SUITS



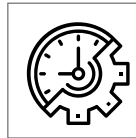
Can be used by wearers with **facial hair and/or glasses**



Improved operational duration over gas-tight suits with SCBA



No requirement for **face-fit testing**



Up to six times the resource efficiency compared with gas-tight SCBA suits thanks to the lower physiological loading and increased duration



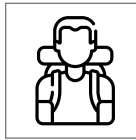
Training needs are reduced



Significantly **lighter and more comfortable**, with easier breathing and less equipment in body contact than with a gas-tight suit with SCBA



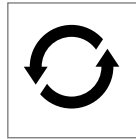
Powered respirator provides **cooling air over the head** and through the suit, making the wearer more comfortable and better able to focus on tasks



The lower weight and increased user comfort results in a **lower physiological load** than a conventional gas-tight suit



A **Large visor** provides reassurance to casualties and victims by maintaining non-verbal communication through facial expression and aids speech recognition.



Uncontaminated or fully decontaminated **suits can be re-used** following a gas-tight re-test and re-certification

CBRN CONTAINMENT



Respirex™ designs and manufactures a comprehensive range of gas-tight CBRN containment products to allow the safe containment and transport of contaminated casualties, fatalities and equipment. From body bags and casualty transport solutions for use in the field and at medical facilities, to drum containment for leaking or emitting hazardous materials and specialist bags for the safe recovery of potentially contaminated UAS/drone assets, the range provides emergency services, civil defence agencies and military teams with the tools to manage contamination risk at every point in the response chain. All products are manufactured from high-performance chemical-barrier fabrics and are designed to be used quickly and effectively under operational pressure.

APPLICATIONS:

- CBRN Incidents
- HAZMAT Incidents

CBRN BODY BAG

A gas-tight body bag, designed to contain chemically contaminated mortalities and body parts after a CBRN incident. Supplied in a sealed polythene bag and packed in a waterproof PVC stowage bag with webbing strap handles. Available in infant, medium, large and bariatric sizes.

- Clear viewing window for casualty identification (Adult/ Large bag only)
- A4 Waterproof document pouch (over viewing widow on large bag) to enable the viewing window to be obscured if necessary
- Transparent ID pouch below to contain an audit ID label
- Sturdy carrying straps allow four people in PPE to assist with lifting and carrying
- Heavy duty gas-tight zip around three sides of the bag for ease of access, fitted with viton ring on slider for ease of use when wearing CBRN gloves
- Absorbent pads in the bottom of the bag capable of holding more than five litres of fluid
- Disposal by means of either cremation or burial
- Manufactured with a Tychem® TK shell which provides excellent protection against a broad range of chemicals
- Two CleanAir® CBRN filters with shut-off valves allow gasses produced by the body as part of the decomposition process to safely pass out of the bag.



DRUM CONTAINMENT

A gas-tight containment bag, designed to cover a typical 200 litre (600mm ø x 880mm) drum used for chemical storage and transportation. The bag is designed to safely contain and transport drums that are leaking or emitting hazardous vapours. Manufactured in Chemprotex™ X, a high performance multi-layer chemical-barrier fabric, the drum containment bag is lightweight an extremely durable.

- Heavy duty gas-tight zip around three sides of the bag for ease of access.
- Positioning straps to assist with placement of the bag over the drum (N.B. they are not to be used lifting/moving the bag when full)
- Manufactured with a Chemprotex™ X shell, which provides excellent protection against a broad range of chemicals
- Provides a physical barrier to particulate, liquid, vapour and gas materials



KEMBLOK™ GLOVES



BACKGROUND:

Kemblok™ gloves use multiple layers of chemical barrier materials to provide excellent protection against a broad range of chemicals. They are ideal as glove liners to provide enhanced chemical protection for heavier gloves providing mechanical protection, or as a chemical protective glove in applications where only a chemical barrier is required (e.g. laboratories or spill clean up).

APPLICATIONS:

- Transferring chemicals and loading process equipment
- Filling, blending & charging of raw materials
- Opening & draining pumps, valves or lines
- Handling application and cleaning tools
- Chemical Testing
- Degreasing
- Emergency response
- Spills & leakages




KEMBLOK™ GLOVES

Manufactured using a seven-layer chemical barrier laminate material, Kemblok™ gloves provide excellent protection against a wide range of chemicals, viruses and micro-organisms.

- Protection against chemicals and micro-organisms to EN ISO 374-1:2016
- Can be worn as a liner under heavier gloves providing mechanical protection
- Lightweight & comfortable
- Compatible with the PermaSURE® toxicity modelling smart-phone app which calculates safe working times for over 4,000 chemicals
- Ergonomic ambidextrous design
- Working temperature -40°C to 70°C
- Silicone and latex free
- REACH compliant
- Available in three sizes (Small, Medium & Large)



Testing & Certification:

-  EN ISO 374-1:2016 - Type A
Protective gloves against chemicals & micro-organisms. Permeation Level 6 with reagents A, D, E, G, H & L
-  EN ISO 374-5:2016
Protective gloves against chemicals & micro-organisms. With EN ISO 374-2:2014 AQL Performance Level 3 including Viral Penetration
-  EN 420:2003+A1:2009
Clause 5.2, Finger Dexterity Level 5



PermaSURE® App
Compatible

PROTECTIVE FOOTWEAR



BACKGROUND:

Workmaster™ boots from Respirex are manufactured at our state of the art production facility in the UK and incorporate a number of significant innovations.

Our boots are available with a high-grip vulcanised rubber soles which significantly improves the slip resistance and the durability of the sole compared to conventional materials. It is also fuel and oil resistant and resistant to contact with hot surfaces.

We have a range of specialist materials including the highly chemically resistant Hazmax™ compound and our HV3 Dielectric compound for boots certified for live working up to 26,500 Volts.

Our full range of boots (including food and construction industry footwear) can be found at www.workmasterboots.com

APPLICATIONS:

HAZMAX™ BOOTS

- Hazmat Incidents
- Spill clean-up
- Chemical Handling
- Decontamination

DIELECTRIC BOOTS

- Electric Vehicles
- Shipping

HAZMAX™ BOOT



A chemically protective anti-static boot with an integral steel toe cap and vulcanised rubber sole for superior slip resistance. Applications include petrochemical, pharmaceutical, chemical waste handling and aluminium processing.

- Green Hazmax chemically resistant compound shaft certified to EN 13832-3 (see page 30 or visit workmasterboots.com for full chemical permeation data)
- Black vulcanised rubber sole for maximum grip - 30% better than a conventional safety boot sole
- Durable cut resistant sole provides two to three times the wear resistance of conventional soles
- Machine washable at 40°C

Testing & Certification:



EN ISO 20345:2022 + A1:2024 S5 SR HRO HI CI FO LG
Safety Footwear



EN13832-3:2018 A K O P Q R T
Footwear protecting against prolonged contact with chemicals.

HAZMAX ESD BOOT



A chemically protective Electro-Static Discharge (ESD) version of the Hazmax™ that is suitable for applications such as pharmaceutical electro-protective areas.

- For use in EPA areas conforming to EN 61340-5 (ESD 99.6 MΩ dry, 11.8 MΩ wet EN ISO 20345)

Testing & Certification:

As Hazmax above.

HAZMAX OVERBOOTS



Chemically protective anti-static overboots in a choice of two styles; Maxi Overboots for use over safety boots, Compact Overboots for use over safety shoes/trainers.

- Green Hazmax chemically resistant compound shaft certified to EN 13832-3 (see workmasterboots.com for chemical permeation data)
- Machine washable at 40°C



HAZMAX™ FPA BOOT

Hazmax™ FPA boots offer the same performance as Hazmax™ boots but provide increased heat resistance and conforms to the EN 15090:2012 HI₃ F3A Fire fighter boot standard.

- Resistant to flame and radiant heat (20kW/m²)
- Heat insulation of the sole (250°C for 40 minutes)
- Green Hazmax chemically resistant compound shaft certified to EN 13832-3
- Black vulcanised rubber sole for maximum grip - 30% better than a conventional safety boot sole



Testing & Certification:



EN20345:2011 S5 SRC CI HRO
Safety Footwear



EN13832-3:2018 K O R
Footwear protecting against prolonged contact with chemicals.



EN 15090:2012 Type F3A
Footwear for Firefighters

ISOTEC BOOT

A heat-resistant safety boot conforming to the EN 15090 HI₃ F3A fire boot standard for flame resistance, radiant heat (20kW/m²) and heat insulation of the sole (250°C for 40 minutes). These boots are designed for use in areas where there is a risk of sparks from welding or grinding or for close proximity fire fighting.

- Certified to the **Marine Equipment Directive** (MED) 2014/90/EU Item 3.4 - Fire-fighter's outfit: Boots
- Chemically resistant boot certified to EN 13832-3 level 5
- Black vulcanised rubber sole for maximum grip - 30% better than a conventional safety boot sole



Testing & Certification:



EN20345:2011 S5 SRC CI HRO
Safety Footwear



EN13832-3:2018 K N Q
Footwear protecting against prolonged contact with chemicals.



EN 15090:2012 Type F3A
Footwear for Firefighters

HAZMAX CBRN BOOT



Specifically developed for CBRN response, the Hazmax™ CBRN S5 safety boot provides the same comfort and chemical resistance as our popular Hazmax™ chemical safety boots, but with enhanced protection against chemical warfare agents.

- Greater than 24 hours permeation resistance against HD Mustard, VX & GD chemical warfare agents
- Resistant to Chemical Warfare agents and decontamination solutions
- Quick & easy to decontaminate
- Slip resistant, non-clogging sole design
- Supplied with steel toecap and mid-sole as standard, but also available with a (metal free) composite toe-cap and midsole (sizes 8-13 UK / 42 - 47 EU only)

Testing & Certification:



EN20345:2022+A1:2024 S5 SR HRO CI FO LG
Safety Footwear



EN13832-3:2018 A K O P Q R T
Footwear protecting against prolonged contact with chemicals.

CBRN OVERBOOT



A chemically protective anti-static overboot with an ambidextrous quick-don design. Tested against a broad range of hazardous chemicals and chemical warfare agents, the boot design allows it to be fastened single-handedly in less than five seconds.

- Single ambidextrous design allows the boot to be worn on either the right or left foot to speed donning & doffing
- Manufactured from black chemically resistant Hazmax™ FPA compound and certified to EN 13832-3:2018 (Footwear protecting against chemicals)
- Quick & easy to decontaminate
- Designed to fit and completely cover standard military issue combat boots
- Available in olive green or combat black



Testing & Certification:



EN20347:2012 A FO SRA
Occupational Footwear



EN13832-3:2018 A K O P Q R T
Footwear protecting against prolonged contact with chemicals.

DIELECTRIC PRO BOOT

An electrically insulating **Class 2** (for live working up to 17kV) dielectric boot with an integral steel toe cap, mid-sole and vulcanised rubber sole for superior slip resistance. This Dielectric Pro is the first Class 2 boot to incorporate a **penetration resistant midsole** and is ideal for EV and electrical infrastructure incidents.



- Every boot tested to 20kV (AC testing as standard, DC testing available on request)
- Leakage current < 5mA at 5kV and < 18mA at 20kV
- Step Voltage protection up to 35kV
- Blue vulcanised rubber sole for maximum grip - 30% better than a conventional safety boot sole
- Twice the wear resistance of conventional soles

Testing & Certification:



EN ISO 20345:2022+A1:2024 SB P E CI HRO FO LG SR
Safety Footwear



Class 2 AC, EN13832-3:2018
Electrically Insulating Footwear

DIELECTRIC MAXI OVERBOOTS

A **Class 1** (for 7.5 kV Live Working) electrically insulating dielectric overboot, the Workmaster™ Maxi Dielectric overboot is designed to be worn over safety boots. As an option boots are available tested for Class 1 DC use, making them ideal for use in electric vehicle maintenance and recovery.



- Injection moulded for a seamless boot with excellent electrical insulation properties
- Ingenious rear entry design ensures the boot is quick and easy to fit and remove
- Class 1 overboots include a Vulcanized rubber fuel and oil resistant sole for improved slip resistance in wet and oily conditions (SRC)

Testing & Certification - Dielectric Maxi



EN20347:2022+A1:2024 OB SR I HRO FO
Safety Footwear



Class 1 AC, EN13832-3:2018
Electrically Insulating Footwear

LIFTING BAGS



BACKGROUND:

MFC International's range of air lifting bags provides a versatile and dependable solution for the controlled lifting, lowering and stabilisation of heavy loads across the most demanding rescue and industrial environments. The range comprises both low pressure and high pressure systems: low pressure bags deliver very high lifting capacity across a large contact area, making them well suited to the recovery of aircraft, vehicles and other large structures where load distribution is critical; high pressure bags combine an ultra-thin deflated profile with substantial lifting force, allowing rescuers to slide them into the narrowest of gaps and raise loads of many tonnes with precision. Manufactured to exacting standards using reinforced, abrasion-resistant materials and supplied as part of a fully compatible system of controllers, hoses and couplings, every bag is engineered for reliable performance under load, operator safety and long service life in the field.

APPLICATIONS:

- Road traffic collision rescue and vehicle extrication
- Urban search and rescue (USAR) in collapsed buildings and confined spaces
- Heavy vehicle, HGV, bus and coach recovery
- Aircraft recovery and ground-handling support
- Rail and tram derailment recovery
- Industrial plant maintenance, machinery lifting and pipeline repositioning



STAKJAK LIFTING BAGS

The StakJak is a revolutionary flat-profile lifting cushion for vehicle and heavy duty lifting requirements. The flat profile of the StakJak has several distinct advantages over traditional ovoid lifting bags of which the most significant is the ability to safely stack up to three bags together. This enables a greater lift height without the risk of sudden ejection or instability that is possible when stacking ovoid mats.

StakJaks are slimline for tight space scenarios and compact storage. They are constructed from exceptionally tough Kevlar cord, yet are light enough to be carried by just one person. StakJaks can be inflated quickly to provide an instant lift, making them ideal for use in rapid response emergency situations. They also have a controlled deflation facility if required, and can be supplied with an optional bleed valve on request.

- The flat profile allows three bags to safely stack on top of one another
- Provide a strong and steady lift to stabilize a vehicle and improve access to casualties
- Lifting capacity remains constant throughout the lift, even at full height - unlike ovoid mats
- Connecting straps can be used between each bag to provide additional stability and prevent bags from slipping when in use
- Slimline for tight space scenarios and compact storage
- Constructed from exceptionally tough Kevlar cord, but are light enough to be carried by one person
- Manufactured from Neoprene (Polychloroprene) rubber for greater oil, fuel and chemical resistance
- Rapid inflation capability provides 'instant lift'
- Large lift capacity and height
- Controlled deflation/lowering capability

STAKJAK LIFTING BAGS

TECHNICAL DATA - 8 BAR

	KSM17	KSM25	KSM49	KSM60
Product Code	KSM17/08	KSM25/08	KSM49/08	KSM60/08
Length (cm)	52	62	84	92
Width (cm)	52	62	84	92
Inflated Height (cm)	17	17	17	17
Deflated Height (cm)	2.5	2.5	2.5	2.5
Pack Size (cm)	55 x 55 x 4	65 x 65 x 4	88 x 88 x 4	95 x 95 x 4
Max. Lifting Capacity at Min. Lifting Height (tonne)	16.9	25.5	47.6	57.5
Max. Lifting Capacity at Max. Lifting Height (tonne)	4.4	9.4	24.9	33.7
Max. Flat Area (cm)	24 x 24	34 x 34	56 x 56	64 x 64
Air Requirements (ltr)	305	465	893	1074
Weight (kg)	8	12	20	23
Max. Pressure (bar)	8	8	8	8

TECHNICAL DATA - 12 BAR

	KSM26	KSM38	KSM74	KSM90
Product Code	KSM26/12	KSM38/12	KSM74/12	KSM90/12
Length (cm)	52	62	84	92
Width (cm)	52	62	84	92
Inflated Height (cm)	17	17	17	17
Deflated Height (cm)	2.5	2.5	2.5	2.5
Pack Size (cm)	55 x 55 x 4	65 x 65 x 4	88 x 88 x 4	95 x 95 x 4
Max. Lifting Capacity at Min. Lifting Height (tonne)	27.0	39.6	73.8	92.2
Max. Lifting Capacity at Max. Lifting Height (tonne)	8.6	15.7	37.7	52.3
Max. Flat Area (cm)	24 x 24	34 x 34	56 x 56	64 x 64
Air Requirements (ltr)	479	731	1403	1687
Weight (kg)	8	12	20	23
Max. Pressure (bar)	12	12	12	12



POWERMATS

The Powermat is a heavy duty, high pressure lifting bag designed primarily for lifting vehicles and objects in emergency situations. Deflated, the Powermat has a very slim profile making it suitable for use in restricted or awkward spaces and compact to store. Available in 12 standard sizes with maximum lifting capacities from 1 tonne right up to 68 tonne.

The Powermat inflates rapidly offering an instant lift. The most convenient source of air supply for inflation is a BA cylinder or scuba bottle, alternatively a compressor, factory airline supply or a truck air brake supply.

Due to its rapid response capability the Powermat is ideally suited to emergency rescue situations, however it is an exceptionally versatile piece of equipment that also has applications in USAR, industry, mining, railroad construction/maintenance and the armed forces.

- Slimline profile when deflated making it suitable for use in restricted or awkward places
- Rapid inflation capability provides 'instant lift'
- Constructed from exceptionally tough Kevlar cord, but are light enough to be carried by one person
- Manufactured from Neoprene (Polychloroprene) rubber for greater oil, fuel and chemical resistance
- Large lift capacity and height
- Controlled deflation/lowering capability

POWERMATS

TECHNICAL DATA - 8 BAR

	KS1	KS3	KS5	KS10	KS12	KS16	KS21	KS29	KS33	KS46	KS54	KS67
Product Code	KS01 /08	KS03 /08	KS05 /08	KS10 /08	KS12 /08	KS16 /08	KS21 /08	KS29 /08	KS33 /08	KS46 /08	KS54 /08	KS67 /08
Length (cm)	15	22.5	27	38	40.8	46	52	62	65.8	77.5	84	92
Width (cm)	15	22.5	27	38	40.8	46	52	62	65.8	77.5	84	92
Inflated Height (cm)	10	13	15	23	23	25	30	35	38	43	48	50
Deflated Height (cm)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Maximum Lift (tonne)	0.9	2.6	4.2	8.5	10.2	13.6	17.6	26.6	30.3	42.5	51.1	62.2
Air Capacity at 8 bar (ltr)	3	12	23	69	89	124	186	311	391	627	797	1051
Weight (kg)	0.5	1.3	1.8	3.6	4.1	5.1	8	12	13.5	14.5	20	23
Maximum Pressure (bar)	8	8	8	8	8	8	8	8	8	8	8	8

TECHNICAL DATA - 12 BAR

	KS2	KS5	KS8	KS16	KS18	KS23	KS30	KS43	KS49	KS68	KS81	KS97
Product Code	KS02 /12	KS05 /12	KS08 /12	KS16 /12	KS18 /12	KS23 /12	KS30 /12	KS43 /12	KS49 /12	KS68 /12	KS81 /12	KS97 /12
Length (cm)	15	22.5	27	38	40.8	46	52	62	65.8	77.5	84	92
Width (cm)	15	22.5	27	38	40.8	46	52	62	65.8	77.5	84	92
Inflated Height (cm)	8	13	16	23	25	28	32	38	41	48	52	57
Deflated Height (cm)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Maximum Lift (tonne)	1.4	4.1	6.6	13.6	16.0	20.9	27.6	40.6	45.2	63.8	75.5	93.2
Air Capacity at 12 bar (ltr)	4	18	34	100	128	180	268	449	565	906	1151	1518
Weight (kg)	0.5	1.3	1.8	3.6	4.1	5.1	8	12	13.5	14.5	20	23
Maximum Pressure (bar)	12	12	12	12	12	12	12	12	12	12	12	12



0.5 BAR AND 1 BAR LIFTING BAGS

Our comprehensive range of low pressure lifting bags, available in 0.5 bar or 1 bar pressure models, are designed primarily for the recovery of vehicles. Invaluable at the scene of a road traffic incident or light aircraft crash, the airlift bags provide an exceptionally strong and steady lift to stabilize a vehicle and improve access to casualties. Depending on the circumstances these lifting bags may also be used in the rescue of animals or to raise submerged vehicles and small craft as well as many other heavy objects.

Half bar bags use yellow Hypalon coated nylon and provide a cost effective option for lower lift capacity requirements. One bar bags use black Neoprene coated Kevlar and provide twice the lift capacity.

- Lightweight and easily portable
- Provide a strong and steady lift to stabilize a vehicle and improve access to casualties
- Strong and durable
- Slip-resistant top surface
- Exceptionally stable
- Low maintenance costs
- Large lift capacity and height
- Controlled deflation capability

LOW PRESSURE LIFTING BAGS

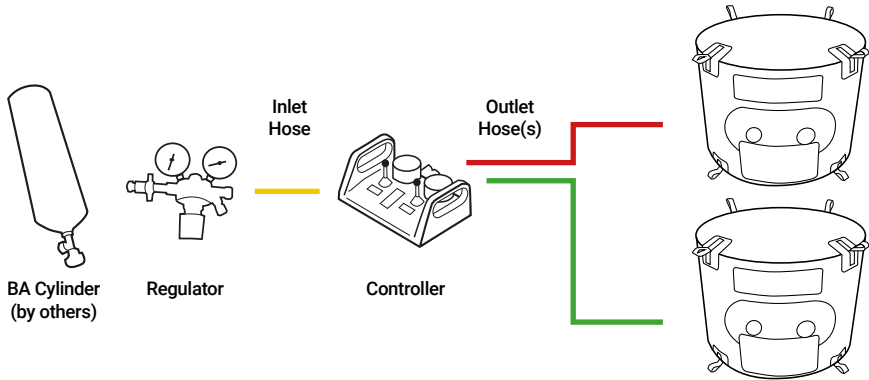
TECHNICAL DATA 0.5 BAR

	A	B	C	D
Product Code	LB0015/004	LB0016/001	LB0017/003	LB0018/001
Materials	Hypalon Coated Nylon			
Diameter (cm)	61	76	91	122
Inflated Height (cm)	43	59	61	100
Deflated Height (cm)	5	5	5	10
Packed Size (cm)	66 dia. x 20	77 dia. x 20	96 dia. x 20	122 dia. x 22
Max. Pressure (bar)	0.5	0.5	0.5	0.5
Lift at Max. Pressure (kg)	1488	2325	3347	5951
Air Requirements (ltr)	222	450	673	1900
Packed Weight of Two Bags (kg)	30	34	45	50

TECHNICAL DATA 1 BAR

	AK	BK	CK	DK
Product Code	LB0019/003	LB0020/003	LB0021/004	LB0022/003
Materials	Neoprene Coated Kevlar			
Diameter (cm)	61	76	91	122
Inflated Height (cm)	43	59	61	100
Deflated Height (cm)	5	5	5	10
Packed Size (cm)	66 dia. x 20	77 dia. x 20	96 dia. x 20	122 dia. x 22
Max. Pressure (bar)	1	1	1	1
Lift at Max. Pressure (kg)	2976	4650	6694	11902
Air Requirements (ltr)	295	620	900	3010
Packed Weight of Two Bags (kg)	30	34	45	50

LIFTING BAG SYSTEM COMPONENTS



A typical lifting bag system uses a BA cylinder and pressure regulator as its compressed air source — the regulator reducing cylinder pressure to the working pressure of the system. Where available, a suitably rated compressor may be used as an alternative. An inlet hose connects the compressed air source to a controller, which manages the inflation and deflation of the lifting bags. Colour-coded outlet hoses run from the controller to each individual bag.

LIFTING BAG ACCESSORIES

HAND-HELD SINGLE OR TWIN CONTROLLER



Push-button hand-held controller in a durable aluminium body with semi-recessed pressure gauge(s). Available in 3 or 8 bar models - 3 bar versions have Geka outlet couplings, 8 bar models have Series 25 female outlet couplings (both models have a series 26 female inlet).

Product codes:	3 bar	8 bar
Single controller	C00067	C00070
Double controller	C00074	C00076

ALUMINIUM DOUBLE & TRIPLE CONTROLLERS



A robust and durable aluminium controller available with two or three outlets; its impact resistant design incorporates plastic protective handles at either end. Each outlet has a dedicated pressure gauge with a rubber protective surround and controlled by a pressure sensitive 'deadman' joystick. Available in 1, 8 or 12 bar models - 1 bar versions have Geka outlet couplings, 8 & 12 bar models have Series 25 female outlet couplings (all models have a series 26 female inlet).

Product codes:	1 bar	8 bar	12 bar
Double controller	C00130	C00055	C00091
Triple controller	-	C00058	C00109

LIFTING BAG ACCESSORIES

STANDARD REGULATOR (8 OR 12 BAR)

Designed to be used with an air cylinder to reduce the pressure leaving the cylinder (at up to 300 bar) before entering the inflatable product or controller. The regulator contains a shut off valve which stops the air flowing through the hose and a pressure relief valve. Regulators are available in either 8 bar or 12 bar maximum outputs and are supplied with a female type 26 outlet coupling and a 2m hose- 12 bar regulators are only for use with 12 bar controllers.

Product Code: RE0034/004 (8 bar), RE0039/001 (12 bar)



GLYCERINE GAUGE REGULATOR (2 OR 8 BAR)

This regulator includes glycerin filled gauges. The regulator contains a shut off valve which stops the air flowing through the hose, a pressure relief valve and 2m outlet hose with a male type 26 coupling. The two bar regulator can be set at the factory for a 0.5, 1 or 2 bar output, please specify what is required when ordering.

Product Code: RE0033 (2 bar), RE0043/002 (8 bar)



INLET HOSE - YELLOW

Used to connect between the regulator and controller - S.26 Male to S.26 Male. Available in 2m, 5m or 10m lengths

Product Code: HS-01-04-02-06-06 (2m)
HS-01-04-05-06-06 (5m)



OUTLET HOSE - HIGH PRESSURE (UP TO 12 BAR)

Used to connect between a controller and **High Pressure Lifting Bags** - S.25 Male to S.25 Female. Available in blue, green, yellow or red and in 2m, 5m or 10m lengths

Product Code: HS-01-02-05-06-07 (5m Green)
HS-01-01-05-06-07 (5m Red)
HS-01-03-05-06-07 (5m Blue)
- see website for all options



OUTLET HOSE - LOW PRESSURE (UP TO 3 BAR)

Wide bore hose used to connect between a controller and **Low Pressure Lifting Bags** - Geka couplings. Available in blue, green, yellow or red and in 2m, 5m or 10m lengths

Product Code: HS-02-02-05-13-13 (5m Green)
HS-02-01-05-13-13 (5m Red)
- see website for all options



RETAINING STRAPS

Used to secure StakJaks to each other when stacked together, reducing the risk of lateral movement of the bags during a lift. Available for two bag sets (SP0068/001) and triple bag sets (SP0068/002)



WATER, ICE AND MUD RESCUE



BACKGROUND:

MFC International designs and manufactures a comprehensive range of water, ice and mud rescue equipment built to perform in the most demanding conditions – from swift-water rescue and flood response to coastal and inshore operations. Drawing on decades of specialist expertise in inflatable rescue and survival technology, each product is engineered to meet the rigorous standards demanded by professional rescue teams, emergency services and civil protection agencies worldwide. Whether deployed by fire and rescue services, coastguard units or specialist search and rescue teams, MFC International's rescue product range delivers the reliability, durability and performance that today's rescue operations require.

APPLICATIONS:

- Swift Water Rescue
- Flood Rescue and Evacuation
- In Shore rescue
- Mud & Ice Rescue



ANIMAL RESCUE PATH

The Animal Rescue Path is a simple and adaptable pathway to aid the rescue of animals trapped in mud, ditches or soft ground. The path inflates to only 6.7cm high and has a smooth upper surface, providing a flexible, obstruction free platform to manoeuvre the animal on to and across to safety. Easily portable, the Animal Rescue Path comes supplied in a compact carry bag and is available in two different lengths.

- Stable and robust
- Rapid inflation and deployment
- Low pressure
- Lightweight and portable
- Designed to minimise the distress caused to the animal
- Smooth upper surface

Options available



TECHNICAL DATA

	5M	10M
Product Code	WR0195	WR0197
Length (cm)	500	1000
Width (cm)	134	134
Height (cm)	6.7	6.7
Weight (kg)	15.5	30
Air Requirements (ltr)	455	910
Pack Size (cm)	66 x 34 x 25	70 x 45 x 30
Working Pressure (bar)	0.2	0.2
Recommended Regulator	8 bar	8 bar



AIRTRACK RESCUE PATH

The MFC International Airtrack is a purpose-designed inflatable rescue path for reaching casualties across the full range of difficult terrain – mud flats, ice, unstable ground and open water. Where conventional access is impossible or unsafe, the Airtrack provides a stable, load-bearing surface that allows rescuers to reach and recover casualties quickly and with confidence.

Available in a range of lengths, multiple Airtracks can be connected end to end to extend the rescue path, or side by side to create a wider rescue raft or temporary pontoon – making the system highly adaptable to the demands of any incident. Twin sponsons on the underside improve stability in water and significantly reduce friction on mud, while dropstitch construction produces a firm, flat walking surface with a non-slip finish. Reflective tapes ensure visibility in low-light and night-time conditions, and the system packs down to a compact, portable package that can be rapidly deployed by a small crew.

- Connects end to end using the supplied joining hooks, or side by side to form a rescue raft or temporary pontoon
- Twin sponsons improve water stability and reduce friction on mud
- Inflates from a single point; separate chambers isolated by air transfer valves
- Firm, flat non-slip surface – dropstitch construction throughout
- Grab-lines fitted to all sides; towing points at both ends
- Ground anchor points, stowage pockets (with rescue line and rubber ring) and sideways connection standard on hypalon versions; optional on TPU
- Reflective tapes for night-time visibility
- Minimal training, servicing and maintenance requirements

AIRTRACK RESCUE PATH

TECHNICAL DATA	2M	3M	4M	5M	10M
Product Code (Hypalon)	WR0011	WR0012	WR0013	WR0014	WR0015
Product Code (TPU)	WRW0011/01	WRW0012/01	WRW0013/01	WRW0014/01	WRW0015/01
Length (cm)	200	300	400	500	1000
Width (cm)	137				
Height (cm)	25				
Max. Capacity (kg)	200	300	400	500	1000
Air Requirements (ltr)	640	960	1280	1600	3200
Working Pressure (bar)	0.55				
Pack Size (cm)	82 x 48 x 24	87 x 48 x 28	87 x 48 x 32	87 x 48 x 35	89 x 73 x 50
Weight (kg)	12	17	22	28	55
Recommended Regulator	8 bar				

Options available



WELDED (TPU)

Lighter products, stay inflated longer without topping up and more cost effective.



GLUED (Hypalon)

Heavier duty, extremely durable products.



MULTIFUNCTION CRAFT

The MFC International Multifunction Craft range is purpose-built for flood rescue and swift water operations, where speed of deployment and operational flexibility are key. Lightweight, robust and fully inflatable, each craft can be rapidly mobilised without specialist vehicles or trailers – making the range equally suited to planned operations and emergency response.

Designed around the needs of rescue professionals, the wide beam and flat-bottomed hull deliver exceptional stability across a range of conditions. The low-profile design allows operation in as little as 10 cm of water, while the inflatable deck significantly reduces crew fatigue on extended deployments. The flat bow simplifies casualty boarding and maximises usable interior space, and with capacity for up to 14 people or one tonne of equipment (MFC5000), the range offers genuine versatility across flood rescue, water rescue and logistical support roles.

- Compatible with 2 or 4-stroke short shaft outboard motors up to 30hp (max 65kg)
- Deflates into a carrying valise – no trailer required; transportable by 2–3 people in a small van
- Full deployment in under 5 minutes
- Operates in as little as 10 cm of water without the motor; powered operation in water >40 cm deep
- Self-filling water ballast chambers improve lateral stability in choppy conditions and during over-the-side casualty recovery
- Twin keel design delivers excellent manoeuvrability with minimal wake, protecting riverbanks
- Low training, servicing and maintenance requirements

MULTIFUNCTION CRAFT

TECHNICAL DATA	MFC4000	MFC4500	MFC5000
Product Code	WR0206	WR0207	WR0208
No. of Persons	10	12	14
Length (cm)	400	450	500
Width (cm)	200	217	217
Height (cm)	80	80	80
Capacity (kg)	800	960	1050
Working Pressure - Tube (bar)	0.2	0.2	0.2
Working Pressure - Floor (bar)	0.4	0.4	0.4
Air Requirements (ltr)	2900	3300	3500
Pack Size (cm)	140 x 50 x 35	165 x 55 x 35	165 x 55 x 35
Weight (kg)	52	58	65
Recommended Regulator	8 bar	8 bar	8 bar

Options available



GLUED

Heavier duty, extremely durable products.



RESCUE SLED

The RS Series Rescue Sleds are flood water rescue craft for inshore crisis rescues and flooded urban and coastal areas. The Rescue sled is available in seven standard sizes 3, 5, 6, 10 & 15 man. The 3, 5 & 6 person sleds are ideal for swift-water and narrow access rescue.

The 10 & 15 person sleds have a larger floor space and load capacity which are more suited for emergency evacuation situations.

- Lightweight and easily portable
- Easy to manoeuvre
- Can be paddled or pulled by hand
- Exceptionally stable
- Can be used in shallow water
- Open low stern makes casualty recovery easier
- Exceptionally tough and durable
- Rapid inflation and deployment
- Easily launched into the surf zone for sea rescue, with a raised bow for improved performance in waves
- Open stern for easy access and self-bailing
- Minimal training, servicing and maintenance costs

RESCUE SLED

TECHNICAL DATA	RS3	RS5	RS6	RS10	RS15
Product Code (Hypalon)	WR0001	WR0002	WR0169	WR0003	WR0005
Product Code (TPU)	WRW0001/01	WRW0002/01	WRW0169/01	-	-
No. of Persons	3	5	6	10	15
O.A Length (cm)	256	331	397	400	500
O.A Width (cm)	117	117	117	190	231
O.A Height (cm)	40	40	40	56	77
Max. Load (kg)	240	400	480	800	1200
Working Pressure (bar)	0.2	0.2	0.2	0.2	0.2
Air Requirements (ltr)	530	670	710	2000	3800
Pack Size (cm)	88 x 35 x 30	88 x 35 x 30	88 x 35 x 30	88 x 55 x 35	90 x 70 x 52
Est. Weight (kg)					
- Hypalon / TPU	17 / 15	19.5 / 17.5	20.5 / 18.5	35 / 31	50 / 45
Recommended Regulator	8 bar				

Options available



WELED (TPU)

Lighter products, stay inflated longer without topping up and more cost effective.



GLUED (Hypalon)

Heavier duty, extremely durable products.



EVACUATION RAFT

Fully inflatable, the Evacuation Raft is lightweight and portable. It is easy to manoeuvre, and can be paddled or pulled by hand. The Evacuation Raft has a flat bottom, making it exceptionally stable and suitable for use in very shallow water from 50mm in depth. The Evacuation Raft is ideal in flood rescue situations.

The closed stern has been designed to give rescued casualties an enhanced feeling of security when on board the raft. Once in the raft, individuals can sit on the floor surrounded by the inflatable tubes, providing a comfortable and reassuring rescue environment.

- Lightweight and easily portable
- Easy to manoeuvre
- Can be paddled or pulled by hand
- Exceptionally stable
- Can be used in shallow water
- Closed stern to keep the deck dry and provides greater reassurance for casualties
- Rapid inflation and deployment
- Easily launched into the surf zone for sea rescue, with a raised bow for improved performance in waves
- Exceptionally tough and durable
- Minimal training, servicing and maintenance costs

EVACUATION RAFT

TECHNICAL DATA	RS8ER	RS10ER
Product Code	WR0212	WR0214
No. Of Persons	8	10
Length (cm)	350	400
Width (cm)	190	190
Height (cm)	56	56
Capacity (kg)	820	950
Air Requirements (ltr)	1815	2000
Pack Size (cm)	88 x 50 x 33	88 x 55 x 35
Est. Weight (kg)	35	40
Recommended Regulator	8 bar	

Options available



GLUED

Heavier duty, extremely durable products.



RSW RESCUE SLED

The RSW Rescue Sled is fitted with extended tubes which provide its unique design. Based on the design of the standard Rescue Sled, it provides options for rescuing casualties from difficult situations such as weirs. Its design allows casualties to be pulled aboard through the wrap round tubes, which provide protection and also stability when in the water.

- Exceptionally tough and durable
- Rapid inflation and deployment
- Open stern for easy access and self-bailing

Options available



TECHNICAL DATA

RSW RESCUE SLED

Product Code	WR0244 (Glued Hypalon), WRW0244 (Welded TPU)
No. of Persons	5 + 1
Length (cm)	500
Width (cm)	120
Internal Width (cm)	75
Floor Height (cm)	15
Tube Diameter (cm)	Ends - 23 Sides - 45
Working Pressure (psi)	Buoyancy - 3.25 Floor - 6
Max. Load (kg)	850
Air Requirements (ltr)	2000
Packed Size (cm)	80 x 40 x 35
Packed Weight (kg)	31.5



JET-SKI RESCUE BOARD

The Jet Ski Rescue Board is an inflatable board that is designed to be attached to the back of a jet ski to aid rapid response and rescue of casualties. It is attached by a towing 'D' ring and two other 'D' rings which are located at the front of the inflatable board.

The board has 10 handles fitted around the top sides to make it easier for the casualty or rescue crew to hold onto the board whilst in use.

- Used in conjunction with a Jet ski for a rapid response rescue
- The underside of the board is double skinned for maximum abrasion resistance
- Rapid inflation and deployment

Options available



TECHNICAL DATA

JET-SKI RESCUE BOARD	
Product Code	WR0213 (Glued Hypalon), WRW0213 (Welded TPU)
Length (cm)	160
Width (cm)	95
Height (cm)	12.5
Typical Load (kg)	150
Air Requirements (ltr)	300
Pack size (cm)	97 x 32 x 17
Weight (kg)	9
Working Pressure	0.86
Recommended regulator	8 Bar



INFLATABLE STRETCHER

The Inflatable Stretcher is lightweight and is used to transport casualties in any rescue scenario. The stretcher is able to be packed down into a small back pack to make it easier for transportation.

The stretcher has been designed so that it is easy to carry whilst in use, with three sturdy lifting handles located on either side of the product. The stretcher also has a

multi-point quick release restraint harness for securing casualties during transport. It is ideal for casualty recovery in tight or difficult to reach areas.

The compact size means it can be easily stowed in a vehicle, boat, helicopter or aircraft.

Options available



TECHNICAL DATA

	INFLATABLE STRETCHER	
	WRW0196/01 (Welded TPU)	WR0196 (Glued Hypalon)
Product Code	WRW0196/01 (Welded TPU)	WR0196 (Glued Hypalon)
No. of Persons	1	
Length (cm)	203	
Width (cm)	69.5	
Height (cm)	6.7	
Capacity (kg)	150	
Air Requirements (ltr)	100	
Pack Size (cm)	35 x 35 x 18	
Est. Weight (kg)	5	
Working Pressure (bar)	0.5	



API STRETCHER

The API Stretcher is a revolutionary rescue stretcher designed to provide safe handling of a casualty in an emergency rescue situation.

Despite its robust construction, the API Stretcher is lightweight and easy for one person to carry, it is ideal for casualty recovery in tight or difficult to reach situations. When deflated, the API Stretcher is compact and easily stowed on a vehicle, boat, helicopter or aircraft.

The API Stretcher can be inflated using an air cylinder, bellows or a compressor and takes only minutes to deploy.

Once a casualty is in place on the stretcher it can be easily carried, dragged or tobogganed over various terrains, including snow, sand, marsh and mudflats.

Options available



TECHNICAL DATA

API STRETCHER

Product Code	WR0219
No. of Persons	1
Length (cm)	215
Width (cm)	89
Height (cm)	41.5
Capacity (kg)	200
Air Requirements (ltr)	370
Pack Size (cm)	70x45x30
Est. Weight (kg)	11.25
Recommended Regulator	8 bar

HOSE INFLATION KIT

The Fire Hose Inflation Kit provides a front line, first response solution for water rescue where the casualty is conscious and able to help themselves during rescue. This compact, robust kit can be deployed in seconds with ordinary fire hose and used in a number of different water rescue techniques. To use, simply connect the required lengths of hose together, fit the couplings from the kit to the ends of the hose system, and inflate.

A variety of options are available, please contact the sales department to discuss your requirements



MUD LANCE

The Mud Lance is a durable lance to loosen the soil, sand or mud surrounding a trapped animal/person during mud rescue. Using either water or air, the Mud Lance will overcome the suction from the mud, allowing the animal/person to be rescued quickly and safely with minimal distress. When not in use the Mud Lance can be dismantled and packed away into the compact carry bag provided, making it easy to store and carry.

Product Code: WR01423



INFLATABLE SHELTERS



BACKGROUND:

MFC Internationals' range of inflatable shelters can be set up in a matter of minutes, and will stay standing without continuous inflation. With no mechanical framework the shelters are lighter and more compact once packed. All shelters are supplied with adjustable zipped entrances at the front and rear, providing a versatile solution that allows two or more shelters to be linked together if required. Shelters can be anchored on hard or soft standing, and guy ropes are provided for use in inclement weather.

APPLICATIONS:

- Field Hospitals
- Command Centers
- Crime Scene Preservation
- Storage Areas
- Vehicle Maintenance Shelter



WELDED INFLATABLE SHELTERS

Inflatable Shelters provide a quickly deployable structure that is simple to use, lightweight, compact and easy to transport. They are ideal for emergency or humanitarian use, but have a wide range of other applications including field hospitals, command centres, crime scene preservation, storage areas and vehicle maintenance.

The shelters are manufactured with a welded and taped PU frame that reduces weight and air leakage, which allows shelters to remain inflated for longer without the need for topping up (particularly in hot climates).

The welded and taped canopy ensures seams remain waterproof even after repeated deployments and the heavy-duty detachable floor allows the shelter to be lowered over a vehicle or casualty if required.

Shelters are supplied with a comprehensive range of standard equipment, along with a large choice of optional add-ons such as heating, lighting and customer branding. The shelters are available with a choice of standard flame resistant (FR) canopy material colours,

WELDED INFLATABLE SHELTERS



- Lightweight and easily portable
- Sets up within a matter of minutes and will stay standing without continuous inflation
- Supplied with adjustable zipped entrances at the front and rear providing a versatile solution that allows two or more shelters to be linked together if required
- Can be anchored on hard or soft standing, and guy ropes are provided for use in inclement weather
- Minimal training, servicing and maintenance costs
- Detachable floor & canopy for easy cleaning

OPTIONS

- Thermal Liner
- Internal Partitions
- Branding/Lettering
- Additional windows & blinds
- Detachable floor panel
- Additional cable or heater sleeves

SUPPLIED WITH

- Windows & blinds (2 total, one in each side wall)
- Heater sleeve (side) x1
- Cable sleeves (one at each end) x2
- Closable ventilation panel over each door
- Guy lines and adjusters (6 or 8 depending on size)
- Valise
- Repair kit
- Delivery hose (1m)
- Peg set & bag

WELDED INFLATABLE SHELTERS

TECHNICAL DATA

	9	12	16	20	25	30	36	51
Product Code*	SHW/09/001	SHW/12/001	SHW/16/001	SHW/20/001	SHW/25/001	SHW/30/001	SHW/36/001	SHW/51/001
Length (cm)	300	400	400	500	500	600	600	850
Int. Length (cm)	300	400	400	500	500	600	600	850
Width (cm)	310	310	400	400	500	500	595	595
Int. Width (cm)	263	263	353	353	453	453	534	534
Height (cm)	263	263	280	280	290	290	308	308
Int. Height (cm)	238	238	254	254	265	265	275	275
Int. Floor Area (sq.m)	7.9	10.6	14.12	17.65	22.65	27.2	32.04	45.39
Air Requirements (ltr)	1300	1850	2600	2900	3050	3700	5900	8100
Weight (kg)	43	55	63	73	83	94	106	125
Pack Size (cm)	120 x 66 x 41	120 x 66 x 41	130 x 66 x 50	130 x 66 x 50	140 x 80 x 66	140 x 80 x 66	140 x 80 x 60	160 x 80 x 66

*Note: Part numbers are dependant on shelter type and colour selected, codes above are for shelters with white walls & roof. Contact MFC International for available options and additional information.

Options available



WELDED

Lighter products, stay inflated longer without topping up and more cost effective.

POD SHELTERS

Pod shelters can be used to link shelters together in more flexible configurations. Standard shelters have doors at the front and rear and can be linked in linear patterns only. Pod shelters, with entrances on all four sides, can be used to link shelters in L, T, or X-shaped configurations.





INFLATABLE DECON SHOWERS

BACKGROUND:

MFC International's range of rapid deployment CBRN wet decontamination showers are fully inflatable and significantly lighter than traditional metal-framed alternatives, the range spans single-person units through to large-scale mass casualty systems – all capable of being operational within minutes of arrival on scene. Each shower incorporates a chemically resistant sump for contaminated water collection, and raised floor panels to prevent contact with wash-off. Compact enough to be transported in a single vehicle, yet robust enough for the most demanding operational environments, the MFC International decontamination shower range gives emergency teams the capability and confidence to deliver effective decontamination wherever it is needed.

APPLICATIONS:

- Post-Incident responder decontamination
- Mass casualty incident decontamination
- Assisted casualty decontamination
- On-site emergency decontamination for chemical and petrochemical facilities



SINGLE DECONTAMINATION SHOWER

A lightweight single-person decontamination shower with an optional external sump unit, the inflatable Single Decontamination Shower can be set up in a matter of minutes, and will stay standing without continuous inflation.

A raised floor panel prevents contact with contaminated shower wash-off, which is collected in a chemically resistant sump. Sleeves for pumped extraction of contaminated water are included as standard.

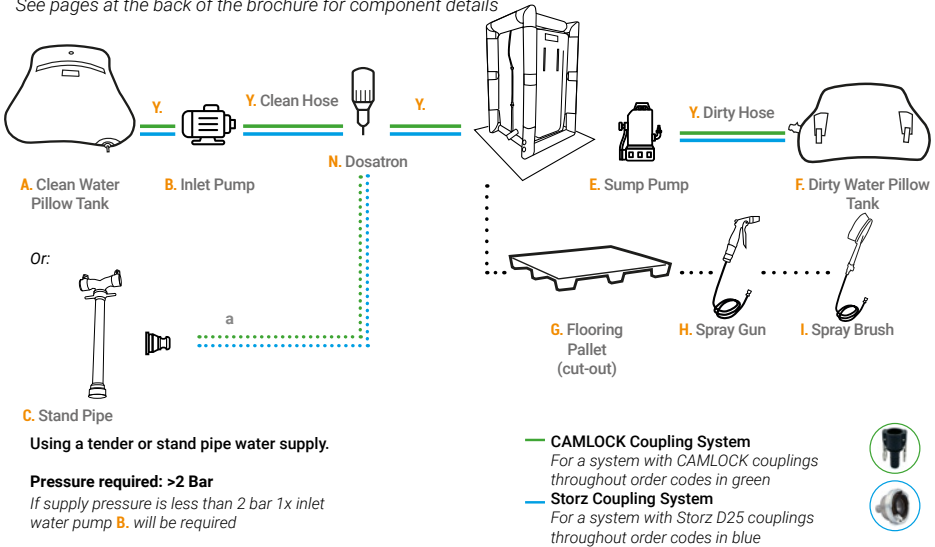
Single Decontamination Showers come with a viewing window and optional chemically resistant sleeves and nitrile rubber gloves to allow assisted decontamination by a third party stood outside of the unit.

- Over-head spray nozzle and side spray nozzle, with two brush/gun connections
- External shut off tap as standard - other options on request
- Internal grab handle for support while cleaning boots etc
- Optional external sump attached to the shower (inflates with the shower)
- Lightweight and easily portable
- Full range of accessories and ancillary equipment

SINGLE DECONTAMINATION SHOWER

SYSTEM SCHEMATIC & COMPONENTS

See pages at the back of the brochure for component details



TECHNICAL DATA

Single Without Gloves

Single With Gloves

Product Code	● DSW022/020	DSW022/021
	● DSW022/020/001	DSW022/021/003
Length (cm)	150	150
Int. Length (cm)	120	120
Width (cm)	140	140
Int. Width (cm)	125	125
Height (cm)	260	260
Int. Height (cm)	225	225
Working Pressure (bar)	0.38	0.38
Air Requirements (ltr)	400	400
Max. Water Inlet Pressure (bar)	5	5
Weight (kg)	22.5	22.5
Pack Size (cm)	70 x 45 x 30	70 x 45 x 30
Number of Shower Nozzles	2	2
Brush/Spray Gun Connectors	1	1
Glove	No	Yes
Window	Yes	Yes



SINGLE ASSISTED DECONTAMINATION SHOWER

A versatile, lightweight and quick to deploy inflatable Single Assisted Decontamination Shower designed for the decontamination of both casualties and responders. Fully inflatable, the shower can be set up in a matter of minutes, and will stay standing without continuous inflation.

The shower is sized to accommodate a casualty on a spine board, with two medical personal in appropriate personal protective equipment. Designed to minimise water consumption, the shower includes two connection points for on demand spray guns or brushes and two shower nozzles with individual shut off valves.

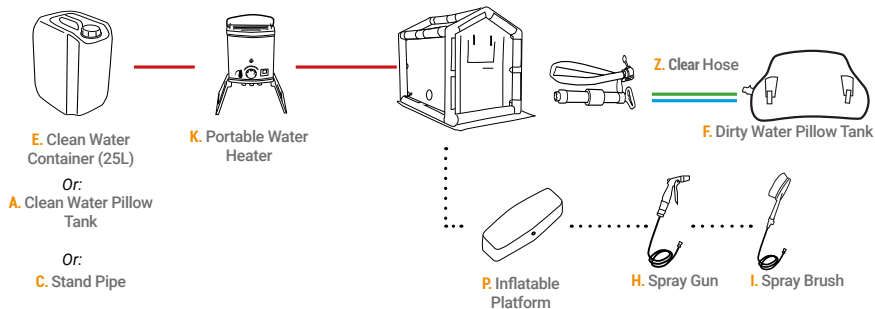
The shower includes internal pockets and a hanging rail for equipment and a zipped pass-through port for transferring equipment without having to open the doors.

- Front and rear doors with roll-up windows and blinds and zipped pass-through ports
- Sleeves for a portable air heater and pumped extraction of contaminated water are included as standard
- Internal pockets and hanging rail for medical equipment
- Internal hanging points for IP67 lighting (supplied separately)

SINGLE ASSISTED DECONTAMINATION SHOWER

SYSTEM SCHEMATIC & COMPONENTS - OFF GRID SYSTEM

See pages at the back of the brochure for component details



TECHNICAL DATA

Single Assisted Decon

Product Code	● DSW029 ● DSW029/S
Length (cm)	290
Int. Length (cm)	250
Width (cm)	200
Int. Width (cm)	160
Height (cm)	248
Int. Height - Max (cm)	225
Working Pressure (bar)	0.38
No. of chambers	1
Air Requirements (ltr)	1185
Max. Water Inlet Pressure (bar)	3
Recommended pump flow-capacity (liters/minute)	7 ltr/min per nozzle
Number of Shower Nozzles	2
Number of Connectors	2
Heater Sleeves	1
Cable/Hose Sleeves	4
Pack size (cm)	50 x 50 x 100
Weight (kg)	30



FOUR PERSON DECONTAMINATION UNIT

The inflatable Four Person Shower is a quick deployment decontamination solution for up to four emergency responders or casualties. A detachable internal partition is provided, which splits the shower into two lanes. The shower system has two separate water feeds allowing the front half of the shower to be fed with water treated with a cleanser or neutralising agent, while the back half can be used to rinse off with clean water.

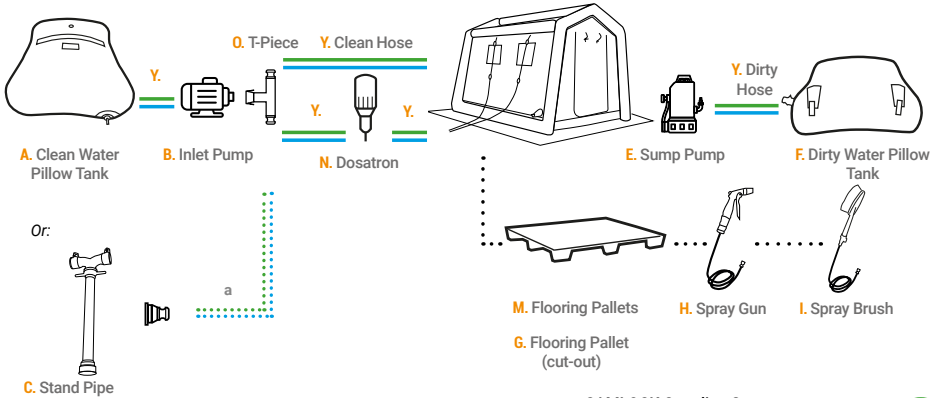
Raised floor panels or non-slip matting prevent contact with contaminated shower wash-off, which is collected in a chemically resistant sump. Sleeves for pumped extraction of contaminated water are included as standard.

- Two external shut off taps provide individual control of front and back shower stations - shower brush connectors are always 'on' as guns & brushes have individual controls - other options on request
- Each shower point has an over-head spray nozzle, a side spray nozzle and a brush/gun connection
- Set up within a matter of minutes and will stay standing without continuous inflation
- Lightweight and compact, the shower is easy to transport and store

FOUR PERSON DECONTAMINATION UNIT

SYSTEM SCHEMATIC & COMPONENTS

See pages at the back of the brochure for component details



Using a tender or stand pipe water supply.

Pressure required: >2 Bar

If supply pressure is less than 2 bar 1x inlet water pump B. will be required

CAMLOCK Coupling System

For a system with CAMLOCK couplings throughout order codes in green

Storz Coupling System

For a system with Storz D25 couplings throughout order codes in blue



TECHNICAL DATA

	MD4	MD4 WITH SUMP
Product Code (CAMLOCK Coupling)	● DSW017/005	DSW017/003
Product Code (Storz Coupling)	● DSW017/007	DSW017/006
Length (cm)	350	350 + 105 (Sump)
Internal Length (cm)	300	300
Width (cm)	290	290
Internal Width (cm)	240	240
Height (cm)	290	290
Average Internal Height [with flooring] (cm):	246	246
Air Requirements (ltr)	1370	1630
Recommended Water Inlet Pressure (bar)	3	3
Minimum Recommended Flow (ltr)	7 ltr/min per nozzle	7 ltr/min per nozzle
Number of Shower Nozzles	8	8
Number of Shower Hose/Brush Connectors	4	4
Number of Tubing Sleeves	4	4
Windows & Blinds	4	4
Pack Size (cm)	128 x 70 x 50	128 x 70 x 50
Weight (kg)	55	60



MASS DECONTAMINATION UNIT

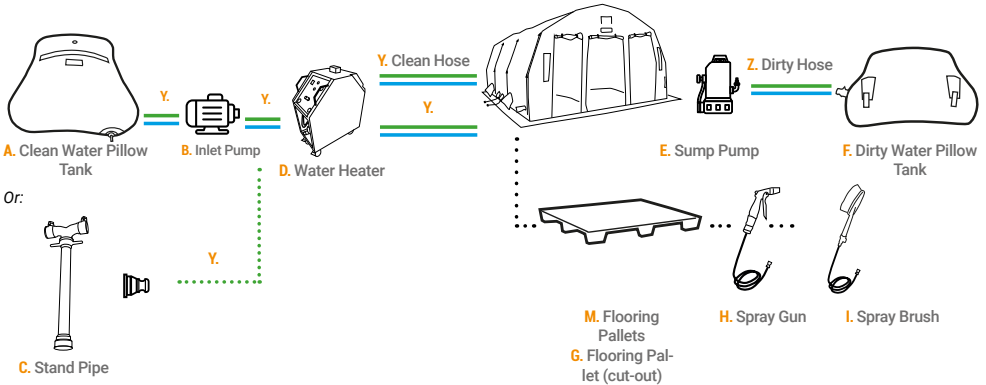
The inflatable Mass Decontamination Shower from MFC International is lighter than traditional metal framed showers and extremely quick to deploy, allowing for rapid response in a mass casualty decontamination scenario.

The shower is partitioned into three lanes (male, female and assisted decon) with separate entrances and exits and screened pre and post decontamination changing areas. Each lane has two separate showering stations, allowing the front station to be fed with water treated with a cleanser or neutralising agent, while the rear station can be used to rinse off with clean water.

Raised floor panels or matting in the shower section prevent contact with contaminated shower wash-off, which is collected in a chemically resistant sump and pumped out through an internal sleeved port.

- Full range of accessories available
- Two external shut off taps provide individual control of front and back shower stations - shower brush connectors are always 'on' as guns & brushes have individual controls - other options on request
- Sleeves included for extraction of contaminated water, ducted hot air and cabling

MASS DECONTAMINATION UNIT



Using a tender or stand pipe water supply.
Pressure required: >2 Bar
 If supply pressure is less than 2 bar 1x inlet water pump **B.** will be required

- **CAMLOCK Coupling System**
 For a system with CAMLOCK couplings throughout order codes in green
- **Storz Coupling System**
 For a system with Storz D25 couplings throughout order codes in blue

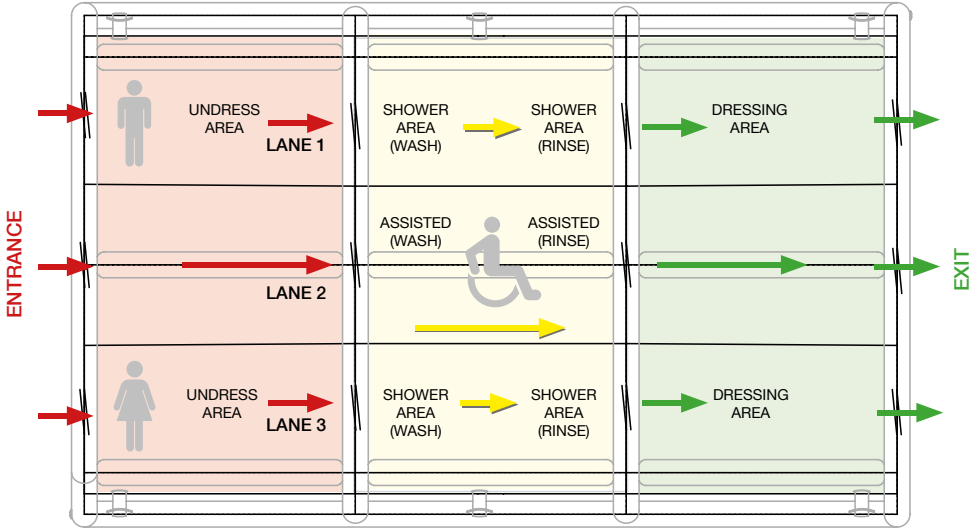
TECHNICAL DATA

Mass Decon Unit

Product Code	● DSW027 ● DSW027/001
Length (cm)	726
Int. Length (cm)	726
Width (cm)	452
Int. Width (cm)	406
Height (cm)	302
Int. Height (cm)	278
Int. Floor Area (sq.m)	30
Air Requirements (ltr)	3800
Max. Water Inlet Pressure (bar)	3
Recommended Pump Flow (Itrs)	5 ltr/min per nozzle
Number of Shower Nozzles	8
Number of Shower Hose/Brush Connectors	8
Number of Heater Sleeves	4
Number of Cable sleeves	8
Pack Size (cm)	160 x 100 x 80
Weight (kg)	140

MASS DECONTAMINATION UNIT

INTERNAL LAYOUT (3 LANE CONFIGURATION)



The diagram on the right shows the different compartments of the Mass Decontamination shower. It also shows how the user enters the decontamination shower and shows the direction of travel. The areas are colour coded:

- **Red** - designates the contaminated area where the user will enter the unit
- **Yellow** - designates the area where the user will wash off any contamination
- **Green** - designates the clean, post decontamination area



Removable internal partitioning creates three separate decontamination lanes. By removing partitions and linking doors, the shower can be configured with one, two or three lanes.

SHELTER & DECON SHOWER ACCESSORIES



Regulator, 8 Bar

For rapid inflation of decon showers with BA cylinders

Regulator & hose:
RE0034/006



LED Strip Light

Waterproof strip light that can be used in shelters and decon showers. Available in 5, 10 and 25m lengths.
5m 110V AC - 090074



Electric Inflator

A high-performance 2kW, 230VAC electric inflator (110V on request) that can fully inflate any of our range of showers.

Inflator only

230V AC: 180058/001

Automatic refill Inflator

230V AC: 180056/001



LED Shelter Lights

Designed for ease of installation in inflatable structures these 23W, 2300 lumen lights feature durable waterproof construction.

Lamp:

SLZ2323/5/01DWD

Hanging kit: SLZ005



Hand Pump

Bravo 4 ALU R.E.D hand pump for manual inflation of decon showers.

Hand Pump: 180001



Waterproof LED Interior/Exterior Lights

Tower Pro 2K

Tower Lights: 090067



Water Ballast Bags

Used to anchor showers on hard standing

25kg- WBB001

100kg - WBB002

Guy-line Ballast

50kg - WBB003



Generator

A choice of petrol generators with different power output ratings which can operate at 115 or 230V AC.

6kW: 190500

2.7kW: DS9069

SHELTER & DECON SHOWER ACCESSORIES



Portable air heater

A range of portable oil heaters designed to be positioned outside the shower or shelter with the heated air fed into the shelter through the heater sleeve via a heat resistant hose.



Signage

Custom Entry/Exit signs, instructional signage etc can be added - please discuss your requirements with the sales team

DECON SHOWER ACCESSORIES



A) Clean (Potable) Water 1000 litre Pillow Tank

Range of other sizes available

- WS0028
- WS0028/001



B) Inlet Water Pump

Close-coupled self-priming centrifugal pump 230V, 110V on request

- DSA002
- DSA002/001



C) Stand Pipe & Adapter

- To connect fire tender or stand pipe outlet to the decon system in place of a pillow tank and pump.

Various models available depending on outlet coupling - Contact sales for details & product codes



D) Water Heater

A portable diesel and electric water heater & dosing unit with a high 50 l/min max flow rate specifically designed to supply tepid water for decontamination showers.

- Contact Sales
- Contact Sales



E) Submersible (Sump) Pump

A submersible drainage pump with a compact footprint and an integral float switch. 230V as standard, 110v on request.

- DSA004
- DSA004/001



F. Dirty Water 1000 litre Pillow Tank

- Other sizes available

- WS0017
- WS0017/001

DECON SHOWER ACCESSORIES



G) & M) Flooring Pallets

Installed into the shower sump to raise the user above the run-off water level.

G) Cut-out Pallet:
DSA2011

M) Plain Pallet: 140065



H) & I) Spray Guns & Brushes

Fitted to a coiled hose the brush & gun can both be turned off when not in use.

H) Spray Gun: DSA008

I) Spray Brush: 180035



K) Portable Gas Water Heater

Inc 12v Pump - hoses included (Requires gas bottle)

● DSA014

● DSA014/01



Bilge Pump

Hand operated bilge pump for off-grid operation of the single assisted decon.

● DSA013

● DSA013/001



N) Dosatron

Installed into the water supply line, the Dosatron (with trolley) feeds the pre-set percentage of cleaning/neutralising agent into the water.

● DSA005

● DSA005/001



O) T-Piece

An adapter used to split the incoming water flow from a pump into separate feeds for the dosatron and rinsing water nozzles
1x Socket, 2x Plug couplings

● DSA009

● DSA009/001



Y) & Z) Water Hoses

Flexible reinforced hoses with a 25mm inside diameter. 2m length as standard, other lengths on request

Y) Clean Water (Green)

● HS-05-02-02-22-22

● HS-05-02-02-23-23

Z) Dirty Water (Clear)

● HS-06-06-02-22-22

● HS-06-06-02-23-23



E) Water Container

A 25 liter portable water container.

Container (25L):
060171

DECON SHOWER ACCESSORIES



Patient roller conveyor

A flexible roller conveyor that facilitates the handling of non-ambulatory casualties through a decontamination shower.

Conveyor: DSA015



Rubber matting

Size: 500x2300mm

Matting: DSW917



Inflatable Spine Board Platform

Platform: DSW918

	Single Person Decon	Single Assisted Decon	Four Person Decon	Mass Decon
A) Clean Water Pillow Tank	1	1*	1	2
B) Inlet Water Pump	1	1*	1	2
C) Stand Pipe & Adapter	Optional	Optional	Optional	Optional
D) Water Heater (Mass Decon)				1
E) Sump Pump	1	1	1	2
F) Dirty Water Pillow Tank	1	1	1	2
G) Cut-out Floor Pallet	1	-	1	2
H) & I) Brush/Spray Gun	2	2	4	4
J) Clean Water Container (25ltr)		1*		
K) Portable Water Heater		1*		
L) Bilge pump (hand)		1		
M) Standard Floor Pallet	-	-	3	6
N) Dosatron & Trolley	1	Optional	1	
O) T-Piece	-	-	1	
P) Inflatable Platform		1		
Y) Clean Water Hoses	3	3*	4	8
Z) Dirty Water Hoses	1	1	1	2

* For casualty decontamination a small 25L water container and portable water heater with pump is all that is required



WATER STORAGE

BACKGROUND:

MFC International's comprehensive range of flexible water storage products includes pillow tanks and open-top reservoirs, engineered for dependable bulk liquid containment wherever permanent infrastructure is unavailable or impractical. Each unit is constructed from heavy-duty, weather- and UV-resistant materials and is designed for rapid deployment, easy transport, and compact folding for storage between uses. Sizes and specifications are available to suit everything from short-term operational needs to sustained large-volume storage.

APPLICATIONS:

- Firefighting
- Disaster relief
- Decontamination and CBRN response
- Military forward operating bases



INFLATABLE RESERVOIR

Inflatable Reservoirs are a simple, quickly deployable solution for the storage of water and other liquids. Ideal for rapid response emergency situations, these reservoirs can be transported to the scene and set up easily, providing an immediate storage container.

Filling the reservoir is quick and easy; a floatation collar around the rim is inflated using a compressed air cylinder, hand pump or compressor. As water is then pumped into the reservoir this collar will automatically lift the sides of the tank with the rising water level, creating a fully self-supporting water storage solution in minutes.

- Lightweight and easily portable
- Quick and easy to fill
- Require minimal ground preparation before use
- Crease removing straps incorporated into the design
- Minimal training, servicing and maintenance costs

TECHNICAL DATA

	500	1000	1500	2000	3000	4500	6000	7000	8000	9500	10000	12000
Product Code	WS0075	WS0076	WS0077	WS0078	WS0080	WS0082	WS0083	WS0084	WS0085	WS0086	WS0087	WS0089
Base Size (cm)	150 x 150	150 x 150	150 x 150	194 x 217	233 x 263	281 x 319	304 x 304	324 x 324	344 x 344	372 x 372	382 x 382	402 x 402
Height (cm)	37.5	60	80	103	103	103	120	120	120	120	120	120
Sides	4	4	4	6	6	6	8	8	8	8	8	8
Capacity (ltr)	500	1000	1500	2000	3000	4500	6000	7000	8000	9500	10000	12000

Note: 2500, 3500 and 18000 ltr reservoirs also available. Other reservoir sizes may be produced to order.



PILLOW TANKS

Our range of Pillow Tanks provide a robust and quickly deployable solution for the storage and transportation of water. There are two ranges of pillow tanks - Potable and non-potable. Manufactured with integrated handles and lifting points on larger sizes.

Pillow Tanks are designed to be as easy as possible to transport when full. They come complete with restraining straps to limit movement during transportation and are suitable for use on various different vehicles, including on the back of a 4x4. When empty the Pillow Tank collapse down for compact storage and can be carried by 1-2 people.

- Lightweight and easily portable when filled
- Suitable for use on various different vehicles
- Reliable solution for temporary or long term water storage
- Quick and easy to deploy
- Can be manufactured for potable drinking water, ideal for disaster relief situations
- Minimal training, servicing and maintenance costs









TECHNICAL DATA	200	400	500	1000	5000	10000
Product Code: Potable	WS0025	WS0026	WS0027	WS0028	WS0029	WS0030
Product Code: Non-potable	WS0014	WS0015	WS0016	WS0017	WS0018	WS0024
Length (cm)	90	117	117	150	400	510
Width (cm)	80	75	95	150	225	220
Height - when full (cm)	35	53	53	55	57	100

Note: Other sizes may be produced to order.

SELECTED CHEMICAL PERMEATION DATA

CHEMICAL	CAS NO.	EN 374 & EN 13832 LETTER CODE	VITON®/BUTYL/VITON®	VITON® LAMINATE	DUPONT® TYCHEM® TK	CHEMPROTEX™ X	CHEMPROTEX™ 400	CHEMPROTEX™ 300	KEMBLOK™	HAZMAX™
Acetic acid (Glacial)	64-19-7	N	6	6	6	6	6	6	6	6
Acetone	67-64-1	B	6	6	6	6	6	6	6	4
Acetonitrile	75-05-08	C	6	6	6	6	6	6	6	5
Ammonia 33%	1336-21-6	O		6	6	6	6	6	6	6
Ammonia Gas	7664-41-7		6	6	6	6	6	6	6	6
Carbon Disulphide	75-15-0	E	6	6	6	6	6	6	6	3
Chlorine Gas	7782-50-5		6	6	6	6	6	6	6	4
Dichloromethane	75-09-02	D	3	6	6	6	6	6	6	3
Diethylamine	109-89-7	G	3	6	6	6	6	1	6	4
Ethyl Acetate	141-78-6	I	5	6	6	6	6	6	6	5
Formaldehyde 37%	79-11-8	T	6	6	6	6	6	6	6	6
n-Hexane	110-54-3		6	6	6	6	6	6	6	5
Hydrofluoric Acid 48%	7664-39-3	S	6		6	6	6	6	6	6
Hydrogen Chloride Gas	7647-01-0		6	6	6	6	6	6	6	6
Methanol	67-56-1	A	6	6	6	6	6	6	6	6
Nitric Acid 50%	7697-37-2	M	6		6	6	6	6	6	6
Sodium Hydroxide 40%	1310-73-2	K	6	6	6	6	6	6	6	6
Sodium Hypochlorite 16%	7681-52-9	R				6	6	6	6	6
Sulphuric Acid 50%	7664-93-9	L				6	6	6	6	6
Sulphuric Acid 96%	7664-93-9		6	6	6	6	6	6	6	6
Tetrahydrofuran	109-99-9	H	2	6	6	6	6	2	6	4
Toluene	108-88-3	F	6	6	6	6	6	4	6	5

Normalised breakthrough results for each material are given with the EN Class number (EN 16523), see key below for breakthrough times. Permeation data for a far greater range of chemicals can be found on our website respirex.com

 Class 6	>480 mins	 Class 5	>240mins	 Class 4	>120mins		<10mins	Chemicals in bold are the 15 standard test chemicals defined in EN943-2:2019
 Class 3	>60 mins	 Class 2	>30 mins	 Class 1	>10 mins		Not tested	

PERMASURE® TOXICITY MODELLER



PermaSURE® is a toxicity modelling app for Respirix™ Kembrok™ gloves and chemical protective suits made from Chemprotex™ fabrics. Using the latest modelling techniques, the PermaSURE® app calculates your safe working time based on the chemical you are working with, the PPE you are using and the working temperature.

The advantages of PermaSURE® are:

- It models low-level, but potentially-significant, permeation before breakthrough
- It takes account of the toxicity of the substance when calculating a safe working time

Full details on PermaSURE® are available at respirex.com





RESPIREX™

FIND OUT MORE

For more details on our range of personal protective clothing and rescue equipment call us on
+44 (0)1737 77 86 00 or visit our websites:

www.respirex.com
www.mfc-international.com