

# GTB REUSABLE GAS TIGHT SUIT

## VITON LAMINATE



# RESPIREX

Water  
Companies

Shipping

Nuclear

Health  
Authorities

Petrochemical

Fire Brigades

Civil Resilience

Pharmaceutical

The fully encapsulating GTB is a Type 1A - ET reusable gas tight suit covering both the wearer and breathing apparatus. Manufactured in the new Respirex RXCL158 Viton Laminate material, the suit is lightweight and provides advanced chemical protection.

- Heavy duty 122cm (48") long gas tight zip, fitted to the right hand side of the suit - double flaps with a Velcro closure are fitted to cover the teeth of the zip
- Rigid double layer visor permitting clear undistorted vision
- Fixed or detachable Hazmax™ FPA safety boots - Exclusive to Respirex, these boots are highly chemically resistant and are CE marked to EN ISO 20345:2004 and EN345-2:1996
- Dual glove system consisting of a chemically protective laminated inner glove bonded to an outer neoprene glove for mechanical protection
- Gloves fitted using the Respirex Locking cuff or new SureLoc cuff mechanism, allowing the user to easily change the gloves when necessary
- Seams are stitched and double taped
- Adjustable internal support belt enables wearers of varying sizes to use the suit comfortably
- Exhalation valves ensure that the pressure change within the suit does not exceed 400 pascals in one minute
- Optional pass-through fitted to enable supplementary air to be passed (via an airline) to the second-man attachment on the user's breathing apparatus
- Leak-tightness test to EN464 prior to dispatch
- Annual pressure test required (or after each use)

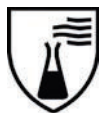
### Specifications

Sizes	S, M, L, XL, XXL (see over)
Boots	3-15 (UK), 35-50 (EU), 4-16 (US)
Packed Dimensions	600 x 410 x 410 mm (case)

### Options and Accessories

- Ventilation for arms & legs (GTVB model ref)
- Air pass-through
- Attachments for lifeline, torch, anchor point, Diktron and Firefly DSU's
- Outer disposable visor
- Hazbag decontamination bag
- Cleaning solution
- Training suit

### Protection



**TYPE 1A-ET**  
**EN943-2:2002**  
 Material tested for the 15 chemicals listed in  
 EN943-2:2002



**10 Year  
Shelf Life**



Detachable Boot

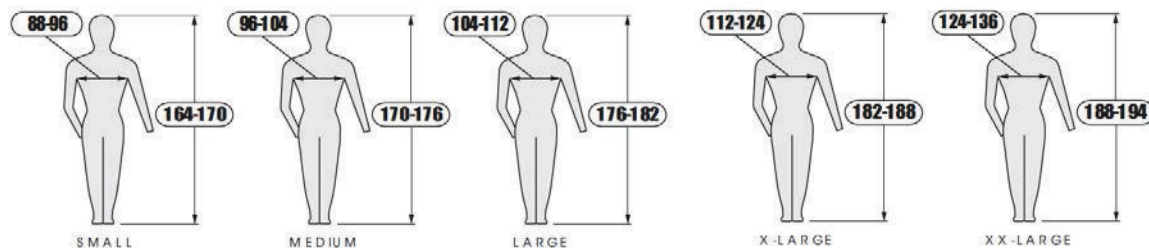


SureLoc Cuff

# GTB REUSABLE GAS TIGHT SUIT

VITON LAMINATE

## Sizing



## Material Permeation Performance

Chemical	CAS #	Physical State	Breakthrough Time	Class
Dichloromethane	75-09-2	liquid	420	5
Methanol	67-56-1	liquid	>480	6
Toluene	108-88-3	liquid	>480	6
Diethylamine	109-89-7	liquid	>480	6
Sodium Hydroxide 40%	1310-73-2	liquid	>480	6
Sulphuric Acid 96%	7664-93-9	liquid	>480	6
Ammonia	7664-41-7	gas	>480	6
Chlorine	7782-50-5	gas	>480	6
Hydrogen Chloride	7647-01-0	gas	>480	6
n-Heptane	142-82-5	liquid	>480	6
Acetone	67-64-1	liquid	>480	6
Acetonitrile	75-05-8	liquid	>480	6
Ethyl Acetate	141-78-6	liquid	>480	6
Carbon Disulphide	75-15-0	liquid	>480	6
Tetrahydrofurane	109-99-9	liquid	>480	6

The test results indicate the resistance to permeation by chemicals of the material as required by clause 5.2 of EN943-2:2002. All tests were carried out under laboratory conditions by independent accredited laboratories in accordance with BS EN ISO 6529:2001. The table shows breakthrough times in minutes.

## Material Physical Properties

Tested In Accordance With	Performance Requirement	Typical Performance level	EN14325:	EN 943-1:
			2004 Class	2002 Class
EN 530:1994 method 2	Abrasion Resistance	2,000 Cycles	6	6
EN ISO 7854:1997 Method B (inc. pressure drop)	Flex Cracking Resistance	MD 15,000 cycles CD 15,000 cycles	4	4
EN ISO 7854:1997 Method B at -30°C (inc. pressure drop)	Flex Cracking Resistance at -30°C	MD 4,000 cycles CD 4,000 cycles	6	6
EN ISO 9073-4:1997	Trapezoidal Tear Resistance	MD 74 N CD 60 N	3	3
EN ISO 13934-1:1999	Tensile strength	MD 2094 N CD 1217 N	6	6
EN 863:1995	Puncture Resistance	71 N	3	3
EN ISO 6529:2001	Permeation Resistance when tested against 96% Sulphuric acid*	>480 min	6	6
EN 13274-4:2001 Meth 3 modified (inc. pressure drop)	Resistance to flame	No part ignited or continued to burn on removal from the flame (5 s stop in flame)	3	3
EN ISO 13935-2:1999	Seam Strength	>500 N	6	6

# GTB REUSABLE GAS TIGHT SUIT

## VITON-BUTYL-VITON



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The fully encapsulating GTB is a Type 1A - ET reusable gas tight suit covering both the wearer and breathing apparatus. Manufactured in Viton/ Butyl/Viton, a premium coated fabric in high visibility orange that provides excellent chemical protection and is the hardest wearing fabric option in the GTB suit range.

- Heavy duty 122cm (48") long gas tight zip, fitted to the right hand side of the suit - double flaps with a Velcro closure are fitted to cover the teeth of the zip
- Fixed or detachable Hazmax™ FPA safety boots - Exclusive to Respirex, these boots are highly chemically resistant and are CE marked to EN ISO 20345:2004 and EN345-2:1996 or Integral socks with outer splash guards as an option
- Dual glove system consisting of a chemically protective laminated inner glove bonded to an outer neoprene glove for mechanical protection
- Gloves fitted using the Respirex Locking cuff or new SureLoc cuff mechanism, allowing the user to easily change the gloves when necessary
- Seams are stitched and double taped
- Rigid double layer visor permitting clear undistorted vision
- Adjustable internal support belt enables wearers of varying sizes to use the suit comfortably
- Exhalation valves ensure that the pressure change within the suit does not exceed 400 pascals in one minute
- Optional pass-through fitted to enable supplementary air to be passed (via an airline) to the second-man attachment on the user's breathing apparatus
- Leak-tightness test to EN464 prior to dispatch
- Annual pressure test required

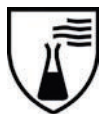
### Specifications

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Boots	3-15 (UK), 35-50 (EU), 4-16 (US)
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### Options and Accessories

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- Cleaning solution
- Training suit

### Protection



**TYPE 1A**  
EN943-2:2002(ET)  
Material tested for the 15 chemicals listed in  
EN943-2:2002(ET)

### Material Resistance



**FINABEL 0.7.C**  
Chemical Warfare Agents



Detachable Boot



Locking Cuff

Respirex International Limited

www.respirexinternational.com

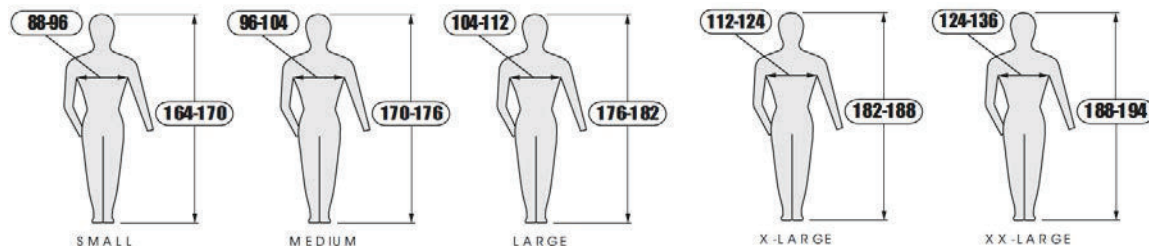
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# GTB REUSABLE GAS TIGHT SUIT

## VITON-BUTYL-VITON

### Sizing



### Material Physical Properties

Tested In Accordance With	Performance Requirement	Level Of Performance	Class
EN 530:1994 Meth 2 (inc. pressure drop)	Abrasion Resistance	>2000 Cycles	6
Method B of EN ISO 7854:1995 (inc. pressure drop)	Flex Cracking Resistance	>100 000 Cycles	6
Method B of EN ISO 7854:1995 at -30°C (inc. pressure drop)	Flex Cracking Resistance at Low Temperatures (-30°)	>4000 Cycles	6
EN ISO 9073-4:1989	Trapezoidal Tear Resistance	Machine direction 101.6 N Cross direction 113.3 N	5
EN 863:1995	Puncture Resistance	135.5 N	4
EN ISO 13934-1:1999	Tensile Strength	Machine direction 1928.7 N Cross direction 1558.7 N	6
EN 374-3:2003	Permeation Resistance when tested against dichloromethane (CAS number 75-09-02)*	Mean breakthrough time >120 minutes	4
ISO 5082:1982 Annex A2†	Seam Strength	>300 N	5
Method 3 of EN 13274-4:2001	Resistance to Ignition	The sample did not continue to burn on removal from the flame	Pass
Method 3 of EN 13274-4:2001 (modified)	Resistance to Flame (inc. pressure drop)	5 second stop in flame caused no damage	3

### Material Permeation Performance

See Respirix Material Permeation guide for details.