#### **ONE-PIECE DECONTAMINATION SUIT** REUSABLE CHEMICAL PROTECTIVE WORKWEAR (COMB049/3)



## Description

A reusable liquid-tight chemical protection one-piece suit manufactured in **Viton®/Butyl/ Viton®** (VBV) a premium coated fabric in DuPont<sup>™</sup> Viton<sup>®</sup> that combines excellent chemical protection and durability.

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.

# Applications





Decontamination

Civil Defence



## Certification



Type 3 | EN14605:2005+A1:2009 Liquid-Tight Chemical Protective Clothing



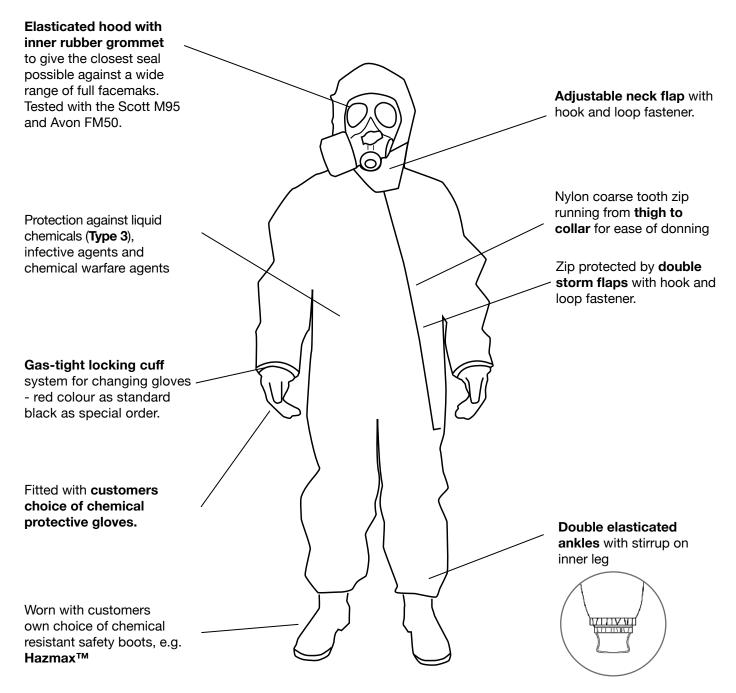
Type 4 | EN14605:2005+A1:2009 Spray-Tight Chemical Protective Clothing





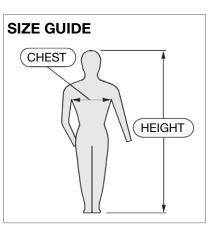
The Declaration of Conformity and user instructions can all be downloaded from the product page on the Respirex website, links are in the downloads tab.

# **Key Features**



# Sizing

Size	Chest (cm)	Height (cm)
Small	88-96	164-170
Medium	96-104	170-176
Large	104-112	176-182
X-Large	112-124	182-188
XX-Large	124-136	188-194



### **Material Performance**

Performance Requirement	Tested In Accordance With	Viton <sup>®</sup> /Butyl/Viton <sup>®</sup>
Abrasion Resistance	EN 530 Method 2	> 2,000
Flex Cracking Resistance	EN ISO 7854 Method B	> 100,000
Tear Resistance	EN ISO 9073-4	> 100 N
Tensile Strength	EN ISO 13934-1	> 1,000 N
Puncture Resistance	EN 863	> 100 N
Resistance to Ignition	EN 13274-4 Method 3	Pass
Seam Strength	EN ISO 13935-2	> 500 N

#### **Resistance to Penetration by Infective Agents**

The material has passed the requirements of EN14126:2003 for protective clothing against infective agents. It is therefore suitable to provide protection against blood, blood-borne pathogens, body fluids, biologically contaminated aerosols and both wet and dry microbial penetration.

Requirement	Test Method	Level of Performance	EN14126:2003 Class
Resistance to wet microbial penetration	ISO 22610:2006	> 75 min	6
Resistance to penetration by blood and body fluids using synthetic blood	ISO 16603:2004	Pass	N/A
Resistance to penetration by blood-borne pathogens using bacteriophage Phi-X174	ISO 16604:2004	20 kPa	6
Resistance to penetration by biologically contaminated aerosols	ISO/DIS 22611:2003	Log <sub>10</sub> R > 5	3
Resistance to dry microbial penetration	ISO 22612:2005	<1 Log <sub>10</sub> Mean	3

## **Chemical Warfare Agents**

Agent	Breakthrough Time	Agent	Breakthrough Time
Phosgene	> 8 hours	Lewisite (L)*	> 24 hours
Cyanogen Chloride	> 8 hours	Sarin (GB)*	> 24 hours
Hydrogen Cyanide	> 8 hours	VX*	> 24 hours
Mustard Agent (HD)*	> 24 hours		

All tests carried out under laboratory conditions by independent accredited laboratories in accordance with EN ISO 6529, except for those marked \* which are tested in accordance with the FINABEL 0.7.C Convention. Table shows average breakthrough times in hours.

#### **Chemical Permeation**

	CAS NO.	Viton <sup>®</sup> /Butyl/Viton <sup>®</sup>
Hydrochloric acid, 36%	7647-01-0	> 480 mins
Hydrofluoric acid 48%	7664-39-3	> 480 mins
Hydrofluoric acid 73%	7664-39-3	> 480 mins
Nitric acid, 60% - 70%	7697-37-2	> 480 mins
Sodium hydroxide, 40%	1310-73-2	> 480 mins
Sulphuric acid 96%	7664-93-9	> 480 mins

The test results indicate the resistance to permeation by chemicals of the material. All tests were carried out under laboratory conditions by independent accredited laboratories in accordance with BS EN ISO 6529 unless otherwise stated

For full details of the chemical permeation performance of VBV and its performance against chemical warfare and infective agents, please visit the materials section of the Respirex website **www.respirex.com**.

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Living + Breathing Personal Protection

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