JACKET & TROUSERS
REUSABLE CHEMICAL PROTECTIVE WORKWEAR

RESPIREX™

Description

Reusable chemical protection jackets and trousers are available in a wide range of fabrics to provide the best possible protection in numerous industries.

Jackets feature **nylon coarse tooth zips** and a choice of hook & loop or press stud **zip flaps**. Trousers include adjustable webbing **shoulder braces** with quick release buckles.

Our reusable workwear is designed to be **laundered in commercial washing machines** (see user instructions for laundering guidelines), ensuring a **lower overall lifetime cost of ownership** than the equivalent number of single use garments.

Applications

Petro-Chemical

Pharma-ceutical

Certification

Type PB [3] | EN14605:2005
Liquid-Tight Chemical Protective Clothing

Type PB [4] | EN14605:2005
Spray-Tight Chemical Protective Clothing

**Jackets and trousers individually meet Type PB[3] & PB[4], but meet Type 3 & 4 when worn in combination. Jackets with a hood meet Type 3 & 4, for a jacket with a collar to meet Type 3 it must be worn with a protective hood, such as the Simplair air-fed hood*

Fabrics

- Viton®/Butyl/Viton® (VBV) - Orange
- Viton®/Butyl/Polyester (VBP) - Yellow
- Butyl - Olive
- Neoprene - Yellow or fluorescent orange (*yellow Neoprene pictured above*)
- PVC - Yellow or Green

Product Documentation

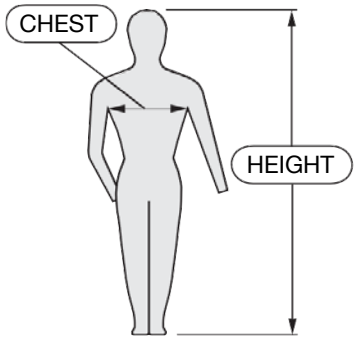
The CE Certificate, Declaration of Conformity and user instructions can all be downloaded from the product page on the Respirex website, links are in the downloads tab.

: www.respirex.com : +44 (0)1737 778600

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

SIZE GUIDE



Material Performance

		VBV	VBP	Butyl	Neoprene	PVC C2
Abrasion Resistance	EN 530 Method 2	> 2,000	> 2,000	> 2,000	> 2,000	> 2,000
Flex Cracking Resistance	EN ISO 7854 Method B	> 100,000	> 40,000	> 15,000	> 5,000	> 100,000
Tear Resistance	EN ISO 9073-4	> 100 N	> 40 N	> 60 N	> 40 N	> 100 N
Tensile Strength	EN ISO 13934-1	> 500 N	> 500 N	> 500 N	> 500 N	> 500 N
Puncture Resistance	EN 863	> 100 N	> 50 N	> 50 N	> 10 N	> 50 N
Resistance to Ignition	EN 13274-4 Method 3	Pass	Not Tested	Pass	Pass	Pass
Seam Permeation Resistance	EN ISO 6529	> 240 min	> 480 min	> 480 min	> 240 min	> 480 min
Seam Strength	EN ISO 13935-2	> 500 N	> 500 N	> 300 N	> 500 N	> 500 N

Chemical Permeation

	CAS NO.	VBV	VBP	Butyl	Neoprene	PVC C2
Hydrochloric acid, 36%	7647-01-0	> 480 mins	> 480 mins		> 480 mins	> 480 mins
Hydrofluoric acid 48%	7664-39-3	> 480 mins	> 480 mins	> 480 mins	> 480 mins	> 480 mins
Hydrofluoric acid 73%	7664-39-3	> 480 mins			> 240 mins	< 30 mins
Nitric acid, 10%	7697-37-2				> 480 mins	> 480 mins
Nitric acid, 60% - 70%	7697-37-2	> 480 mins	> 480 mins	> 480 mins	> 480 mins	< 30 mins
Phosphoric acid,85%	7664-38-2		> 480 mins	> 480 mins	> 480 mins	> 480 mins
Sodium hydroxide, 40%	1310-73-2	> 480 mins		> 480 mins	> 480 mins	> 480 mins
Sulphuric acid 10% - 50%	7664-93-9		> 480 mins	> 480 mins	> 480 mins	> 480 mins
Sulphuric acid 96%	7664-93-9	> 480 mins	> 480 mins	> 240 mins	> 240 mins	> 60 mins

A garments resistance to chemical permeation depends on the material selected. A selection of common industrial chemicals is shown in the table above, but for the full list please check the Respirex permeation guide - visit www.respirex.com or scan the QR code.