

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 Simclair 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

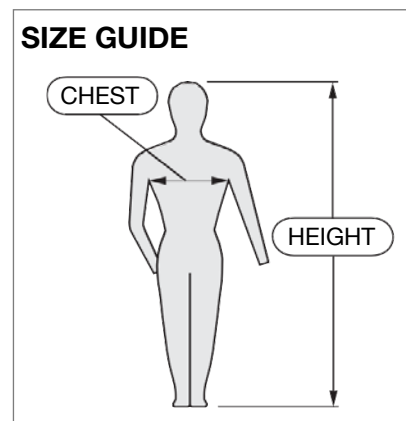
Product Documentation



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.

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

| | | 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.