

# ISOLATOR HALF SUIT

## REUSABLE AIR-FED PARTICULATE PROTECTION



RESPIREX™

### Description

The isolator half suit has been developed by Respirex in cooperation with leading pharmaceutical manufacturers **for use within a positive or negative pressure chamber.**

The suit incorporates features which allow the wearer to **easily access or remove themselves** from the garment and which also prevent the suit from collapsing against the wearer during use. Isolator suits are manufactured from a tough, lightweight material which is **resistant to most workplace chemicals and sterilising agents** and all surfaces are smooth for ease of decontamination

### Applications



Pharmaceutical



### Air Supply

The air flowing into the garment must conform to EN 12021:2014 Annex A. In the event that partial contamination may exist in the factory ring main from which the suit draws its air supply, a Respirex in-line filter unit should be fitted to the air system; this will prevent the ingress of contamination down to 5 microns in size from entering the garment.

### Fabrics

- Neoprene - Yellow or fluorescent orange
- PVC - Yellow or Green

*Other fabrics available on request*

### 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.

# Features

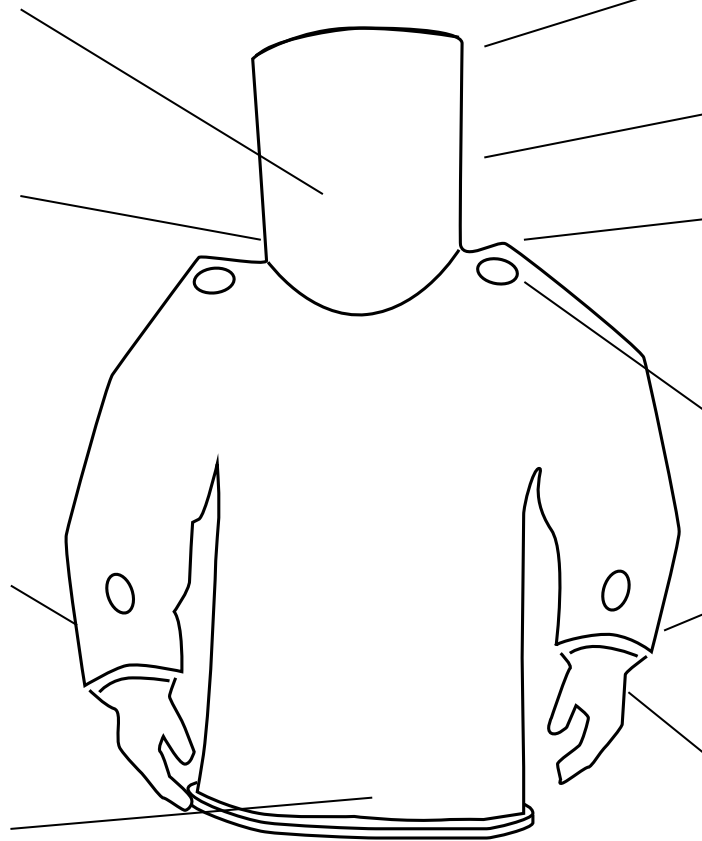
Low pressure air inlet supplying **ventilation to the suit**, particularly to the breathing zone (head and face)

**Hood will not collapse** when used in a positive pressure chamber

**Twin layer body** and upper arms provides comfort and flexibility and **prevents the suit from collapsing against the wearer** in a positive pressure chamber

Stiffened lower arm for **ease of wrist and arm movement**

Ample garment size to allow **freedom of movement**, both stretching and twisting (**one size**)



Clear, flexible **360° hood with a replaceable inner visor** for excellent all round vision

**Low noise suit ventilation**

**Padded neck and shoulder support** to reduce garment cling whilst balancing the hood

Robust hood and arm **hanging support system** for ease of donning and doffing

Areas liable to high physical wear are **reinforced**

**Twin recessed glove connectors** allowing easy initial glove fitting and in-use glove replacement during work activity (locking cuff also available)

**Note:** Isolator suits are built to meet the specific needs of the customer and the requirements of the chamber and are generally bespoke items. If you have a requirement, please contact our sales team who can discuss all of the options available to you.

## Material Performance

		Neoprene	PVC C2
Abrasion Resistance	EN 530 Method 2	> 2,000	> 2,000
Flex Cracking Resistance	EN ISO 7854 Method B	> 5,000	> 100,000
Tear Resistance	EN ISO 9073-4	> 40 N	> 100 N
Tensile Strength	EN ISO 13934-1	> 500 N	> 500 N
Puncture Resistance	EN 863	> 10 N	> 50 N
Resistance to Ignition	EN 13274-4 Method 3	Pass	Pass
Seam Permeation Resistance	EN ISO 6529	> 240 min	> 480 min
Seam Strength	EN ISO 13935-2	> 500 N	> 500 N

## Chemical Permeation

	CAS NO.	Neoprene	PVC C2
Hydrochloric acid, 36%	7647-01-0	> 480 mins	> 480 mins
Hydrofluoric acid 48%	7664-39-3	> 480 mins	> 480 mins
Hydrofluoric acid 73%	7664-39-3	> 240 mins	< 30 mins
Nitric acid, 10%	7697-37-2	> 480 mins	> 480 mins
Nitric acid, 60% - 70%	7697-37-2	> 480 mins	< 30 mins
Phosphoric acid,85%	7664-38-2	> 480 mins	> 480 mins
Sodium hydroxide, 40%	1310-73-2	> 480 mins	> 480 mins
Sulphuric acid 10% - 50%	7664-93-9	> 480 mins	> 480 mins
Sulphuric acid 96%	7664-93-9	> 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](http://www.respirex.com) or scan the QR code.



# RESPIREX™

Living + Breathing Personal Protection

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