

3M Personal Safety
3M™ 4570 Protective Coverall



Advanced Barrier Protection

The 3M™ 4570 Protective Coverall, certified as a 'Type 3' garment, uses an advanced film technology to offer a high level of both chemical hold out and mechanical strength giving the wearer confidence in their protection.

The Power to Protect Your WorldSM





3M™ 4570 Protective Coverall

The 3M 4570 Protective Coverall is a high performance chemical protective suit, certified to Type 3, 4, 5, 6 levels of protection, making it suitable to help protect against a range of chemical jets and sprays. With additional design features including an enlarged zip and thumb loops, an integrated double-closing stormflap system and chin flap, convenience of use can be offered without compromising the high level of protection offered.



Key Features

- Advanced film technology
- Soft material reducing noise from movement
- Excellent levels of chemical hold out and mechanical strength
- Certified to offer protection against radioactive particulates (EN 1073-2) and infective agents (EN 14126)
- Achieves highest class performance on all tests in EN 14126
- Anti-static treated (inside only) to EN 1149
- Seams are taped with a multi layer co-extruded clear tape, which offers a discreet finish and a consistent seal and barrier to hazardous dusts and high pressure liquid jets
- Thumb loops for secure fit during overhead work
- Three-panel hood design with chin flap for a better fit and compatibility with other PPE
- Two stormflaps combined with double colour-coded zips to create a double seal for added convenience and extra protection
- Large ring-pull zippers for easy donning and doffing when wearing gloves
- Elastic waist is adhered with glue to minimise potential entry points
- Elasticated wrists and ankles for convenience and freedom of movement
- Available in 7 sizes, Small - 4XL

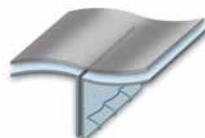
Fabric material

The 3M 4570 Protective Coverall uses a 92gsm heavy-duty material blending a soft anti-static treated inner layer of spun bond fibres with multiple outer layers of a high performance polyethylene laminate, to offer a high level of liquid protection.



Seam Technology

Seams are stitched and overtaped with a clear heat applied 5-layer chemically protective tape to offer increased strength and an effective barrier to liquids and particulates.



Power to Protect your World



Type 3 EN 14605: 2005
+A1 : 2009
Protective performance
against liquid chemicals



Type 4 EN 14605: 2005
+A1 : 2009
Protective performance
against liquid chemicals



Type 5
EN ISO 13982-1: 2004
Protective clothing for use
against solid particulates



Type 6 EN 13034: 2005
+A1: 2009
Protective clothing against
liquid chemicals



Type 3-B, 4-B, 5-B, 6-B
EN 14126 : 2003
Biological protection
(infective agents)



EN 1073-2:2002
TIL Class 2
Protection against nuclear
particles



EN 1149-1: 2006
EN 1149-5: 2008
Anti-static



Application*

Popular Choice

- Chemical mixing and handling
- Chemical / oil spills and clean up
- Metal Refining
- Metal Etching
- Hazardous Waste Remediation
- Decontamination / Site Decommissioning
- Tank Cleaning
- Infective agents / Biological Hazards
- Handling Toxic Powders

Suitable for Consideration

- Pesticide spraying
- Pharmaceutical Processing

Interpreting the permeation data

EN14325 Classification		ANSI 103 Classification	
Class 6	>480 mins	H	>480 mins
Class 5	>240 mins	M	>120 mins
Class 4	>120 mins	L	>30 mins
Class 3	>60 mins		
Class 2	>30 mins		
Class 1	>10 mins		

The test methods referenced in the 3M 4570 Protective Coverall Fabric and Seam Permeation Data table on the following page are EN 374 and ASTM F-739. EN 374 reports the breakthrough detection time at a permeation rate of 1.0 µg/cm² and refers to the EN 14325 classification in the adjacent table. ASTM F-739 reports the normalised breakthrough detection time at a permeation rate of 0.1 µg/cm² and refers to the ANSI 103 classification also detailed in the adjacent table. You can also find both of the normalised permeation rates of 0.1 µg/cm² and 1.0 µg/cm² reported in EN ISO 6529.

3M™ 4570 Protective Coverall Fabric and Seam Permeation Data

Chemical	Fabric			Seam	
	CAS Number	EN374-3 classified to EN14325	ASTM F739 classified to ANSI103	EN374-3 classified to EN14325	ASTM F739 classified to ANSI103
		1ug/cm ²	0.1ug/cm ²	1ug/cm ²	0.1ug/cm ²
2-(2-aminoethoxy) ethanol 98%	929-06-6	Class 6	Not Tested	Class 6	>480 (H)
2,4-Difluoroaniline 99%	367-25-9	Class 3	Not Tested	Class 1	0 mins
2-Chloroethanol 99%	107-07-3	Class 6	Not Tested	Class 6	0 mins
2-Ethylhexanoic Acid 99%	149-57-5	Class 6	Not Tested	Class 6	average 102 mins (L)
Acetic Acid 30% (ethanoic acid)	64-19-7	Class 6	Not Tested	Class 6	>480 (H)
Ammonium Hydroxide 30%	1336-21-6	Class 6	Not Tested	Class 1	0 mins
Aniline 99% (phenylamine, aminobenzene)	62-53-3	Class 5	Not Tested	Class 5	average 11 mins
Dimethyl Sulphate 98%	77-78-1	Class 6	Not Tested	Class 6	>480 (H)
Dimethylformamide (DMF)	68-12-2	Class 6	>480 (H)	Class 6	average 54 mins (L)
Ethylene Glycol 99.5%	107-21-1	Class 6	Not Tested	Class 6	>480 (H)
Formaldehyde 10%	50-00-00	Class 6	Not Tested	Class 6	>480 (H)
Formic Acid 96%	64-18-6	Class 6	Not Tested	Class 6	average 16 mins
Hydrazine Monohydrate 98%	7803-57-8	Class 6	Not Tested	Class 6	>480 (H)
Hydrobromic Acid 48%	10035-10-6	Class 6	Not Tested	Class 6	>480 (H)
Hydrochloric Acid 37%	7647-01-0	Class 4	Not Tested	Class 4	average 36 mins (L)
Hydrofluoric Acid (71-75wt%)	7664-39-3	Class 4	Not Tested	Class 5	average 132 mins (M)
Hydrofluoric Acid 48%	7664-39-3	Class 6	Not Tested	Class 6	>480 (H)
Isopropyl alcohol 99.5%	67-63-07	Class 6	Not Tested	Class 6	average 9 mins
Mercuric Chloride sat. soln.	7487-94-7	Class 6	Not Tested	Class 6	>480 (H)
Mercury	92786-62-4	Class 6	Not Tested	Class 6	>480 (H)
Methanol	67-56-1	Class 2	0	Class 6	0 mins
Nitric Acid 70%	7694-37-2	Class 6	Not Tested	Class 6	average 7 hours (M)
Phenol 85% soln.	108-95-2	Class 6	Not Tested	Class 6	>480 (H)
Phosphoric Acid 85%	7664-38-2	Class 6	Not Tested	Class 6	>480 (H)
Potassium Chromate (saturated soln.)	7789-00-6	Class 6	Not Tested	Class 6	>480 (H)
Sodium Bisulphate 40% soln.	7681-38-1	Class 6	Not Tested	Class 6	>480 (H)
Sodium Fluoride Saturated soln.	7681-49-4	Class 6	Not Tested	Class 6	>480 (H)
Sodium Hydroxide 40wt%	1310-73-2	Class 6	Not Tested	Class 6	>480 (H)
Sodium Hypochlorite (13% chlorine)	7681-52-9	Class 6	Not Tested	Class 6	>480 (H)
Sulfuric Acid 30wt%	7664-93-9	Class 6	Not Tested	Class 6	>480 (H)
Sulfuric Acid 93.1 wt%	7664-93-9	Class 6	>480 (H)	Class 6	>480 (H)
Zinc Bromide Saturated soln.	7699-45-8	Class 6	Not Tested	Class 6	>480 (H)

Contact 3M if your chosen chemical does not appear in the table.

Data given here is: for information only; not certified product claims; based on one sample only; based on lab conditions; subject to change. Product supplied may show variation. Breakthrough times are not safe wear times. Permeation rates increase with temperature. Permeation testing does not assess: degradation; mechanical defects; product design/fit.

*PPE selection should be: based on risk assessment by a competent person; with knowledgeable of the working conditions; with knowledge of the limitations of PPE. Customers should contact a safety professional if in doubt.



**For more information on all our products, call 3M Personal Safety Division
on 0870 60 800 60 (UK) and 1800 320 500 (Ireland)
or visit www.3M.co.uk/safety**



3M Personal Safety Division
3M United Kingdom plc
 3M Centre
 Cain Road, Bracknell
 Berkshire RG12 8HT
 Tel: 0870 60 800 60
www.3M.co.uk/safety

3M Ireland Limited
 The Iveagh Building
 The Park
 Carrickmines
 Dublin 18
 Tel: 1 800 320 500

Please recycle. Printed in the United Kingdom.
 © 3M 2013. All rights reserved.
 16900