

3M™ Protective Coverall 4510

Technical Data Sheet

Description

The 3M™ Protective Coverall 4510 is an economic solution which offers quality and protection from limited chemical splashes such as those from paint spraying and is certified as CE Type 5/6 protection standard. The material is microporous, allowing air and moisture to escape from within the suit, while helping to protect from the hazard on the outside.

Comfort & Protection



Liquid Protection

Type 6 - Light Liquid Splashes (EN 13034:2005 + A1:2009)



Dust Protection

Type 5 - Solid Airborne Particulates (EN 13982-1:2004 + A1:2010)



Anti-static

Anti-static coating on inner surface (EN 1149-5:2008)¹



Nuclear

Radioactive particulates Class 2 (EN 1073-2:2002 except EN863 puncture)



Biohazard

Types 5-B & 6-B – Infected Agents (EN 14126:2003 except ISO 16604)

Features & Benefits:

- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Laminated microporous material
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Elastic cuff s, waist and ankles for a better fit and freedom of movement
- Super low-linting
- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- Biological protection tested to EN 14126

1. All apparel must be suitably grounded for anti-static treatment to be effective.
⚠ Does not offer protection against radiation.



Materials

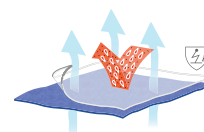
The following materials are used in the manufacture of this product.

Component	Material
Suit	Polypropylene + Polyethylene
Laminate	55gsm
Zipper	Nylon on Polyester Braid
Elastic	Synthetic Rubber (non-latex)
Thread	Polyester/ Cotton

This product does not contain components made from silicone or natural rubber latex.

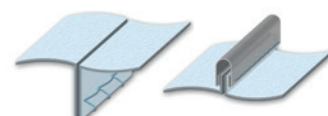
Fabric material

The anti-static treated 3M protective coverall 4510 material is made using a layer of soft, spunbond polypropylene and a layer of light, but high quality anti-static treated polyethylene laminate film giving good levels of barrier efficiency and protection.



Seam Technology

Seams are serged for Type 5/6 and certain seams bound for extra protection.



Standards

These products are type examined by SATRA Technology Europe Ltd., Notified body number 2777 and audited annually by SGS, Notified Body number 0598.

Sizing²

An appropriate size garment should be selected to allow sufficient movement for the task whilst maintaining a secure fit.

Size	Height		Chest	
M	66 – 69 in	167 – 176 cm	36 – 39 in	92 – 100 cm
L	69 – 71 in	174 – 181 cm	39 – 43 in	100 – 108 cm
XL	70 – 74 in	179 – 187 cm	43 – 45 in	108 – 115 cm
XXL	73 – 76 in	186 – 194 cm	45 – 49 in	115 – 124 cm
3XL	76 – 78 in	194 – 200 cm	49 – 52 in	124 – 132 cm

2. The values above are the result of illustrative lab test measures and should not be considered as a commitment from 3M.

Applications

Non-Hazardous Particulates	Yes
Non-Hazardous Liquid Splash	Yes
Hazardous Dusts and Fibres	Yes
Liquid Continuous Contact/ Immersion	Yes
Gases and Vapours	No
Hazardous Liquid Splash	Yes, if chemical is compatible with suit material ³
Hazardous Liquid Spray	No
Organic Solvents	No
Acids/ Alkalis	Yes, if chemical is compatible with suit material ³

3. The chemicals against which the product has been tested and certified are listed in the user instructions and shown in the following table. For additional chemical penetration data, please call your local 3M Technical Service Representative or visit the 3M Chemical Test library on <http://go.3M.com/CHTL>

In all cases, a risk assessment should be carried out. Always read product user information. Use limitations and performance data should be considered to ascertain the protection required. If in doubt, contact a safety professional.

For more information on 3M products and services please contact 3M.

Performance

The tables show the performance of this product when tested under laboratory conditions in accordance with the referenced standard test method.

Note: The maximum Class is 6 unless otherwise noted.

Test	Standard/Test Method	Class/Result
Abrasion resistance (visual assessment)	EN 530:2010	Class 1
Flex cracking (visual assessment)	ISO 7854:1995	Class 4
Tear resistance	ISO 9073-4:1997	Class 2
Tensile strength	EN ISO 13934-1:1999	Class 1
Puncture resistance	EN 863:1995	Class 1
Seam strength	EN ISO 13935-2:1999	Class 1
Repellency to liquids –30% H ₂ SO ₄ Sulfuric Acid	EN ISO 6530:2005	Class 3 of 3
Liquid penetration resistance –30% H ₂ SO ₄ Sulfuric Acid	EN ISO 6530:2005	Class 3 of 3
Repellency to liquids–10% NaOH Sodium Hydroxide	EN ISO 6530:2005	Class 3 of 3
Liquid penetration resistance – 10% NaOH Sodium Hydroxide	EN ISO 6530:2005	Class 3 of 3
Anti-static coating on inner surface	EN 1149-1:2006	Pass
Radioactive particulates (TIL)	EN 1073-2:2002	Class 2 of 3
Synthetic Blood Resistance	ISO 16603:2004	Pass 3.5kPa
Blood borne pathogen penetration resistance	ISO 16604:2004	Fail
Contaminated solid particle penetration resistance	ISO 22612:2005	Class 3 of 3
Contaminated liquid aerosol penetration resistance	ISO/DIS 22611:2003	Class 3 of 3
Wet bacteria penetration resistance	EN ISO 22610:2006	Class 2

Storage and Disposal

- Store in dry, clean conditions in original packaging, away from direct sunlight, sources of high temperature, and solvent vapours
- Store within the temperature range -20°C to +25°C (-4°F to +77°F) and with relative humidity below 80%
- Expected shelf life is five (5) years from date of manufacture when stored as stated⁴
- Replace garments if damaged, heavily contaminated or in accordance with local work practice or regulations
- Handle and dispose of contaminated garments with care and in accordance with applicable regulations

4. The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.

Limited Use



Do not wash



Do not dry clean



Do not bleach



Flammable — keep away from sparks or flames



Do not iron



Single Use - do not re-use



Do not tumble dry

Warnings and Limitations

Before use read and understand all user instructions and be sure that the product is suitable for the application and fitted correctly. Product must never be altered or modified.

Do not use for:

- Contact with heavy oils, sparks or flame, or combustible liquids;
- Environments with high mechanical risks (abrasions, tears, cuts);
- Contact with hazardous substances beyond Type 5/6 certification;
- Environments with conditions of excessive heat.

Ordering Information

3M Code	Model #	Description
GT700000851	4510	Coverall White type 5/6 M
GT700000869	4510	Coverall White type 5/6 L
GT700000877	4510	Coverall White type 5/6 XL
GT700000885	4510	Coverall White type 5/6 XXL
GT700000893	4510	Coverall White type 5/6 3XL

Important Notice

To the extent permitted by law, 3M shall not be liable for any loss or damage including any loss of business, loss of profits, or for any indirect, special, incidental or consequential loss or damage arising from reliance upon any information herein provided by 3M. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



3M Australia Pty Ltd
Personal Safety Division
Bldg A, 1 Rivett Road
North Ryde NSW 2113
TechAssist Helpline: 1800 024 464
Customer Service: 1300 363 565
Email: techassist@mmm.com
Web: www.3M.com/au/ppesafety

3M New Zealand Ltd
Personal Safety Division
94 Apollo Drive, Rosedale
Auckland 0632
TechAssist Helpline: 0800 364 357
Customer Service: 0800 252 627
Email: techassist@mmm.com
Web: www.3M.com/nz/ppesafety

3M is a trademark of 3M Company.
Please recycle. Printed in Australia.
© 3M 2021. All rights reserved.
AV011489190