



## 3M™ 4540+ Protective Coverall

The 3M™ 4540+ Protective Coverall is designed to help protect against hazardous dusts (Type 5) and certain light liquid splashes (Type 6).

### Key Features

- Innovative, soft and well draping laminated material offering good protection against dusts and certain light liquid splashes
- Elasticated waist and ankles for convenience and freedom of movement and knitted cuffs for extra comfort
- Three-panel hood design for better compatibility with complementary PPE
- Two-way zipper with sealable storm flap
- Low linting
- Reinforced gusset
- Breathable back panel for reduced heat stress and increased comfort

### Comfort and Protection



#### Liquid Protection

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



#### Dust Protection

Type 5 - Solid Airborne Particulates  
EN ISO 13982-1:2004



#### Anti-static

Anti-static coating\* on both sides  
(EN 1149-5:2008)



#### Nuclear

Radioactive particulates  
(EN 1073-2:2002) Class 1



Except EN863 puncture resistance. Does not offer protection against radiation.  
\* All apparel must be suitably grounded for anti-static treatment to be effective.

### Approvals

CE approved under PPE Directive (89/686/ECC), Category III  
Article 10 Certification: BTTG Testing & Certification Ltd.  
Notified Body Number: 0338  
Article 11B Supervision: SGS United Kingdom Ltd.  
Notified Body Number: 0120

### Materials

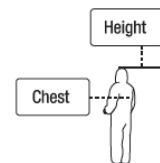
|                   |  |
|-------------------|--|
| <b>Suit</b>       | Polyethylene + Polyester / Polyethylene Laminate |
| <b>Back Panel</b> | SMMMS Polypropylene (blue)                       |
| <b>Zipper</b>     | Metal / Nylon / Polyester Braid                  |
| <b>Elastic</b>    | Neoprene Rubber                                  |
| <b>Cuffs</b>      | Polyester  |
| <b>Thread</b>     | Polyester / Cotton                               |

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

### Sizing

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

|            | Height     |              | Chest      |              |
|------------|------------|--------------|------------|--------------|
| <b>S</b>   | 64 – 67 in | 164 – 170 cm | 33 - 36 in | 84 – 92 cm   |
| <b>M</b>   | 66 – 69 in | 167 – 176 cm | 36 – 39 in | 92 – 100 cm  |
| <b>L</b>   | 69 – 71 in | 174 – 181 cm | 39 – 43 in | 100 – 108 cm |
| <b>XL</b>  | 70 – 74 in | 179 – 187 cm | 43 – 45 in | 108 – 115 cm |
| <b>XXL</b> | 73 – 76 in | 186 – 194 cm | 45 – 49 in | 115 – 124 cm |
| <b>3XL</b> | 76 – 78 in | 194 – 200 cm | 49 – 52 in | 124 – 132 cm |
| <b>4XL</b> | 78 – 81 in | 200 – 206 cm | 52 – 55 in | 132 – 140 cm |



### 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 +68°F) and with relative humidity below 80%
- Expected shelf life is three years from date of manufacture when stored as stated
- 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

### 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.

## Applications and Performance

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

† The chemicals against which the product has been tested and certified are listed in the user instructions. For additional chemical penetration data, please contact 3M on 0870 60 800 60 (UK) or 1 800 320 500 (Ireland).

Typical applications may include: paint spraying, industrial clean-up and maintenance, industrial and chemical processing, asbestos inspection, building cleaning, insulation laying, pesticide handling/ agriculture (particulate aerosols only), powder coating and pharmaceutical manufacturing. **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.**

The table below shows the performance of this product when tested under laboratory conditions. Please note that the tests may not reflect the reality of use and do not account for factors such as excessive heat and mechanical wear. Note: The maximum Class is 6 unless otherwise noted.

| Test   | Standard/<br>Test Method | Class/<br>Result |
|--|--------------------------|------------------|
| Abrasion resistance (visual assessment)                            | EN 530:1994              | Class 1          |
| Flex cracking (visual assessment)                                  | ISO 7854:1995            | Class 4          |
| Tear resistance  | ISO 9073-4 :1997         | Class 1          |
| Tensile strength   | EN ISO 13934-1:1999      | Class 1          |
| Puncture resistance  | EN 863:1995              | Class 1          |
| Burst Resistance   | EN ISO 13938-2:1999      | Class 1          |
| Resistance to ignition   | EN 13274-4:2001          | Pass             |
| Resistance to blocking   | EN 25978:1990            | No Blocking      |
| Seam strength  | EN ISO 13935-2:1999      | Class 1          |
| Repellency to liquids – 30% H <sub>2</sub> SO <sub>4</sub>         | EN ISO 6530:2005         | Class 3 of 3     |
| Liquid penetration resistance – 30% H <sub>2</sub> SO <sub>4</sub> | EN ISO 6530:2005         | Class 3 of 3     |
| Repellency to liquids – 10% NaOH                                   | EN ISO 6530:2005         | Class 3 of 3     |
| Liquid penetration resistance – 10% NaOH                           | EN ISO 6530:2005         | Class 3 of 3     |
| Anti-static coating on both sides                                  | EN 1149-1:2006           | Pass             |
| Radioactive particulates (TIL)                                     | EN 1073-2:2002           | Class 1 of 3     |

### Important Notice

This guide is only an outline. It should not be used as the only means for selecting protective clothing. Before using any protective clothing, the wearer must read and understand the user instructions for each product. Specific country legislation must be observed. If in doubt, contact a safety professional. Selection of the most appropriate PPE will depend on the particular situation and should only be made by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

Final determination as to the suitability of these products for a particular situation is the employer's responsibility. This information is subject to revision at any time. Always read and follow all User Instructions supplied with your 3M™ Protective Coveralls in order to ensure correct operation. If you have questions contact 3M Technical Service.

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