The suit of armour that leaves you free to focus on the job.

3M Personal Safety
3M™ Protective Apparel
Introduction

At 3M we have a select and high quality range of products, from PPE Directive Category I CE simple coveralls to PPE Directive Category III Coveralls, which provide protection against many hazards.

The range of 3M™ Protective Apparel includes a variety of features, from the use of fabrics with specialist treatments for enhanced wear and added protection, to breathable back panels for increased comfort.

Our experts can work closely with you, to help you identify hazards and best protect your workers against them.

Take a look through our brochure for more information, or for further guidance you could:

- Call our Health & Safety Helpline on 0870 60 800 60 (UK) or 1 800 320 500 (Ireland).
- Visit our website @ www.3M.co.uk/coveralls
- Follow us on twitter @3M_UK_Safety
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selection</td>
<td>4</td>
</tr>
<tr>
<td>Protection Types</td>
<td>4</td>
</tr>
<tr>
<td>Additional Standards</td>
<td>4</td>
</tr>
<tr>
<td>Materials</td>
<td>5</td>
</tr>
<tr>
<td>Product Features</td>
<td>5</td>
</tr>
<tr>
<td>Selection Flow Chart</td>
<td>6</td>
</tr>
<tr>
<td>3M™ Protective Coveralls and Accessories</td>
<td>8</td>
</tr>
<tr>
<td>Selection Guide by Application</td>
<td>11</td>
</tr>
<tr>
<td>Customisation</td>
<td>12</td>
</tr>
</tbody>
</table>
Selection

There are many tests and standards that apply to 3M™ Protective Coveralls and selection can be a daunting task. The following section outlines the different options available to help you select the right product for your employees.

Protection Types

Depending on the materials and construction, protective coveralls can be designed for either hazardous applications (certified to CE Category III) or non-hazardous applications (CE Simple Category I). Products for hazardous applications can be tested and certified to any of six different “Type” standards, providing guidance on suitability of use:

<table>
<thead>
<tr>
<th>Category</th>
<th>Symbol</th>
<th>Protection Type</th>
<th>3M Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE Category III</td>
<td></td>
<td>1. Gas Protection</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Non-Gas Protection</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Liquid Jet Protection</td>
<td>4570</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Liquid Spray Protection</td>
<td>4570, 4565</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Particle Protection</td>
<td>4570, 4565, 4545, 4540+, 4535, 4532+, 4530, 4520, 4515, 4510</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Limited Liquid Splash Protection</td>
<td></td>
</tr>
<tr>
<td>CE Category I</td>
<td></td>
<td>CE Simple</td>
<td>4505, 4500</td>
</tr>
</tbody>
</table>

Additional Standards

Some 3M protective coveralls and their materials are approved to additional standards* for specialist applications.

<table>
<thead>
<tr>
<th>Protection against nuclear particles</th>
<th>Protection against micro-organisms (EN 14126)</th>
<th>Protection against micro-organisms (EN 14126) with exception of ISO 16604 (see table below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Inward Leakage Class 1</td>
<td>Class 4</td>
<td>Class 3</td>
</tr>
<tr>
<td>Total Inward Leakage Class 2</td>
<td>Class 6</td>
<td>Class 6</td>
</tr>
<tr>
<td>Anti-static coating (EN 1149-5)</td>
<td>Class 6</td>
<td>Class 6</td>
</tr>
<tr>
<td>Refer to User Instructions for further information on anti-static compliance</td>
<td>Class 6</td>
<td>Class 6</td>
</tr>
</tbody>
</table>

Tests for Protection against micro-organisms

<table>
<thead>
<tr>
<th>4510</th>
<th>4545</th>
<th>4565</th>
<th>4570</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 4</td>
<td>Class 3</td>
<td>Class 6</td>
<td>Class 6</td>
</tr>
<tr>
<td>Unclassified</td>
<td>Unclassified</td>
<td>Unclassified</td>
<td>Class 6</td>
</tr>
<tr>
<td>Class 6</td>
<td>Class 6</td>
<td>Class 6</td>
<td>Class 6</td>
</tr>
<tr>
<td>Class 3</td>
<td>Class 3</td>
<td>Class 3</td>
<td>Class 3</td>
</tr>
<tr>
<td>Class 3</td>
<td>Class 3</td>
<td>Class 3</td>
<td>Class 3</td>
</tr>
</tbody>
</table>

*Please refer to product user instructions and packaging for more information.
Materials

The following is a guide that offers a comparison between the materials used in the 3M™ Protective Coverall range.

For full penetration and permeation data please contact our Safety Solutions Specialists on 0870 60 800 60 (UK) or 1 800 320 500 (Ireland).

**Polypropylene**

Light duty protection against non-hazardous liquids and dust. Designed to offer a particularly good barrier against non-hazardous particles.

- **Coverall 4500**

**PE Laminate**

Light duty protection against non-hazardous liquids and dust. Designed to offer a particularly good barrier against non-hazardous particles.

- **Coverall 4505**

**SMS**

50gsm robust breathable fabric, designed to offer a good barrier against hazardous particles and limited liquid splashes.

- **Protective Coverall 4515**

**SMMS**

54gsm multi layered SMMS fabric. Breathable and designed to offer a good barrier against hazardous particles and limited liquid splashes.

- **Protective Coverall 4530**

**SSMMS**

52gsm SSMMS fabric with alcohol and oil repellence treatment applied. Highly breathable and designed to offer a good barrier against hazardous particles and limited liquid splashes.

- **Protective Coverall 4532+**

**SMMMS**

Sophisticated 43gsm SMMMS fabric, designed to offer increased breathability and a barrier against hazardous particles and limited liquid splashes.

- **Protective Coverall 4520 and back panels of Protective Coveralls 4535 and 4540+**

**Microporous PE Laminate**

PE laminate is designed to offer a good barrier against hazardous particles and limited liquid splashes, whilst the micropores allow for some breathability.

- **Protective Coveralls 4510 and 4545. Also white material of Protective Coveralls 4535 and 4540+**

**Non-Microporous PE Laminate**

Designed to offer a very good barrier against hazardous particles and certain liquid splashes and sprays.

- **Protective Coverall 4565**

**Multi-Layer Non-Microporous PE Laminate**

Designed to offer an excellent barrier against hazardous particles and certain liquid splashes, sprays and jets.

- **Protective Coverall 4570**

### Product features

3M protective coveralls can offer a variety of features depending on your needs. The illustration below highlights some of the features available.

- **3-Panel Hood**
  
  Provides improved fit and increased compatibility with other Personal Protective Equipment (PPE)

- **Breathable back panels**
  
  Reducing the risk of heat stress in hot environments

- **Two-way zip**
  
  With a fully sealable storm flap for extra convenience and protection from contaminants

- **Knitted cuffs**
  
  For increased wearer comfort

- **Anatomical design and fit**
  
  For optimal wear, coverage and comfort
Selection Flow Chart

Is the contaminant hazardous?
- Yes
  - Do you require protection from liquids or particles?
    - No
      - Liquids
        - Type of Exposure
          - Jets (Type 3)
          - Spray (Type 4)
            - Additional breathability required?
              - Yes
                - 4570
                - 4565
              - No
                - 4535
                - 4540+
          - Splash (Type 6)
        - 4500
      - Particles (Type 5)
    - Yes
      - Particles
        - 4505
WARNING: This product selector is intended to provide guidance on key features of the 3M product range. Product selection should always be made after a risk assessment by a competent person knowledgeable of the actual working conditions and limitations of the PPE.

*The fabric complies with ISO 14116:2008 for limited flamespread index 1 (must be worn over and index 2 or 3 garment and must not be worn next to skin).
3M™ Coverall 4505
Designed for light duty protection against non-hazardous liquids and dusts. Its robust laminated material is designed to offer a particularly good barrier to liquids and oils.
- Elasticated hood, cuffs, ankles and waist
- 2 way zip with storm flap
- Water and oil resistant

3M™ Protective Coverall 4515
Available in a wide range of colours. The breathable fabric is designed to offer protection against hazardous dusts and limited liquid splash.
- Elasticated hood, cuffs, ankles and waist
- 2 way zip with storm flap
- Low linting

3M™ Protective Coverall 4510
Designed to offer cost effective protection against hazardous dusts and limited liquid splashes.
- Elasticated hood, ankles, cuffs and waist
- 2 way zip with storm flap
- Ultra low linting

3M™ Protective Coverall 4530
Designed to be lightweight and breathable whilst offering protection against hazardous dusts and limited liquid splashes. The fabric complies with ISO 14116:2008 for limited flamespread index 1 (must be worn over an index 2 or 3 garment and must not be worn next to skin).
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting
3M™ Protective Coverall 4532+
Made from highly breathable fabric with a specialist coating, providing anti-static protection & enhanced liquid repellency.
- Enhanced and reinforced triangular gusset panel
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting

3M™ Protective Coverall 4535
Provides a superb balance of comfort and protection. The microporous PE laminate at the front of the garment is designed to offer a good barrier to limited liquid splash, whilst the large SMMMS breathable back panel increases wearer comfort.
- Elasticated hood, ankles and waist
- 2 way zip with storm flap
- Knitted cuffs
- Low linting

3M™ Protective Coverall 4540+
A highly versatile protective coverall, which is mostly made from a unique microporous PE laminate, designed to be softer and drape better over the body. It is designed to offer a good barrier to particles and limited liquid splash but it also features a breathable SMMMS back panel.
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting

3M™ Protective Coverall 4532+
Made from highly breathable fabric with a specialist coating, providing anti-static protection & enhanced liquid repellency.
- Enhanced and reinforced triangular gusset panel
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting

3M™ Protective Coverall 4565
Made from a soft lightweight fabric with taped seams, providing a very good barrier to hazardous particles and limited liquid splash and spray. Supplied in vacuum packaging.
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Ultra low linting

3M™ Protective Coverall 4540+
A highly versatile protective coverall, which is mostly made from a unique microporous PE laminate, designed to be softer and drape better over the body. It is designed to offer a good barrier to particles and limited liquid splash but it also features a breathable SMMMS back panel.
- Elasticated hood, ankles and waist
- 2 way zip with fully sealable storm flap
- 3-panel hood
- Knitted cuffs
- Low linting

3M™ Protective Coverall 4570
Designed to offer an excellent barrier to hazardous particles and certain liquid splashes, sprays and jets.
- Elasticated hood and ankles
- 3-panel hood
- Double front closing system with large zip pull for easy wear
- Elasticated cuffs with thumb loops
- Ultra low linting

* † ‡ see page 4 for details
N.B. 3M Accessories (excluding lab coats) are not CE marked and are not intended as PPE for use in hazardous environments.
## Selection Guide by Application

### Product Selector

<table>
<thead>
<tr>
<th>Certification**</th>
<th>4500</th>
<th>4505</th>
<th>4510</th>
<th>4515</th>
<th>4520</th>
<th>4530</th>
<th>4532+</th>
<th>4535</th>
<th>4540+</th>
<th>4545</th>
<th>4565</th>
<th>4570</th>
</tr>
</thead>
<tbody>
<tr>
<td>** CATEGORY I**</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** CATEGORY II**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** CATEGORY III**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Type 4**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Type 5**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Type 6**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Material Weight

- 45gsm
- 67gsm
- 47gsm
- 50gsm
- 43gsm
- 54gsm
- 52gsm
- 55gsm
- 49gsm
- 49gsm
- 49gsm
- 92gsm

### Sizes

- S–4XL
- S–4XL
- S–4XL
- S–4XL
- M–2XL
- S–4XL
- S–3XL
- S–4XL
- S–4XL
- S–4XL
- S–4XL

### Colours

- Light-duty cleaning, warehousing, janitorial
- Asbestos Inspection, site preparation, insulation
- Asbestos removal
- Light industrial cleaning, machine maintenance
- Pharmaceutical processing, handling toxic powders
- Painting & coating, resins
- Cleanrooms
- Pesticide spraying
- Chemical mixing and handling
- Chemical spills, decontamination, tank cleaning

○ Most popular choice
● Suitable for consideration

**See page 4 or product technical datasheets for full details.
Customisation

We work in close partnership with you. Through regular contact and understanding your ambitions, goals and concerns we strive to successfully develop specific solutions that fully satisfy your requirements and ensure the best outcome for you. This may mean that an ‘off the shelf solution’ doesn’t do the job. So contact one of our team of Safety Solutions Specialists today via our helpline to discuss your specific needs.