3M™ Protective Coverall 4515

Description
The 3M™ Protective Coverall 4515 is designed to help protect against certain light liquid splashes (Type 6) and hazardous dusts (Type 5).

The key features include:
- Breathable material to help reduce heat build-up and promote comfortable wear
- Elasticized waist, ankles, and wrists for convenience and freedom of movement
- Two-way zipper with storm flap

Materials
- Suit: SMS Polypropylene, White, Red, Orange, Blue
- Zipper: Nylon on Polyester Braid
- Elastic: Neoprene Rubber
- Thread: Polyester
- Basis Weight: 50 grams/m²

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

Approvals

Comfort and Protection

**Liquid Protection**  
Type 6 (EN 13034:2005), Whole suit reduced spray test (EN ISO 17491–4:2008)*

**Dust Protection**  
Type 5 (EN ISO 13982–1:2004), Inward Leakage results: f_{WET} < 30 %, f_{DRIED} < 15 %.

**Nuclear**  
Radioactive particulates (EN 1073-2:2002), Class 1***. Does not offer protection against radiation.

* In the whole suit test, liquid spray is applied to the outer suit. The subject moves gently and is rotated through 360°. A total of 1.88 liters is sprayed from four nozzles. The clothing is allowed to drain for 2 minutes and then the absorbent coverall is inspected for stains which are compared to a calibration stain.

**Performance**

Applications and Performance
* For additional chemical penetration and repellency data, please contact your local 3M Technical Service Representative.

<table>
<thead>
<tr>
<th>Test Standard</th>
<th>Result</th>
<th>Standard†</th>
<th>Class‡/Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion</td>
<td>Cycles to Rupture</td>
<td>No data</td>
<td>EN 530</td>
</tr>
<tr>
<td>Flex Cracking</td>
<td></td>
<td>ISO 7654</td>
<td>Class 2</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>Frayed</td>
<td>10 lbf / 18 lbf</td>
<td>ISO 9073–4</td>
</tr>
<tr>
<td>Puncture Resistance</td>
<td></td>
<td>No data</td>
<td>ISO 13394–1</td>
</tr>
<tr>
<td>Bursting Resistance</td>
<td></td>
<td>35 psi</td>
<td>ISO 13938–1</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>No data</td>
<td></td>
<td>ISO 13935–2</td>
</tr>
<tr>
<td>Repellency to Liquids*** – 30% H$_2$SO$_4$</td>
<td></td>
<td>EN ISO 6530</td>
<td>Class 3</td>
</tr>
<tr>
<td>Liquid Penetration Resistance*** – 30% H$_2$SO$_4$</td>
<td></td>
<td>EN ISO 6530</td>
<td>Class 3</td>
</tr>
<tr>
<td>Repellency to Liquids*** – 10% NaOH</td>
<td></td>
<td>EN ISO 6530</td>
<td>Class 3</td>
</tr>
<tr>
<td>Liquid Penetration Resistance*** – 10% NaOH</td>
<td></td>
<td>EN ISO 6530</td>
<td>Class 3</td>
</tr>
<tr>
<td>Hydrostatic Resistance</td>
<td></td>
<td>EN ISO 17491–4:2008</td>
<td>Pass</td>
</tr>
</tbody>
</table>

† The maximum Class is 6 unless otherwise noted.
‡ The European Standard EN ISO 6530 measures liquid penetration through a fabric and liquid repellency by a fabric.
*** The test simulates exposure to small amounts of chemicals (10 ml) for 1 minute duration only. The penetration index refers to the percentage of the original quantity which penetrates the fabric within 1 minute (in a detector beaker) as a percentage of the original quantity.

Typical Applications

Typical applications may include insulation installation, asbestos and lead abatement, coal dust in power plants, metal polishing, general powder handling, general industrial clean-up and processing, and granular fertilizer application.

In all cases a risk assessment should be carried out. Users must be trained and have read all *User Instructions*. Use limitations and performance data should be considered to ascertain the protection required. If in doubt, contact a safety professional.

Performance

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.
Use Limitations
Do not use for:
• Contact with heavy oils, sparks or flames, or combustible liquids
• Exposure situations resulting in spray or liquid buildup on the suit
• Environments with high mechanical risks (abrasions, tears, cuts)
• Environments with exposure to hazardous substances beyond CE Type 5/6 certification
• Environments with conditions of excessive heat

Storage and Disposal
• Store in dry, clean conditions in original packaging
• Store away from direct sunlight, sources of high temperature, and solvent vapors
• Store within the temperature range -20°C to +25°C (-4°F to +68°F) and with relative humidity below 80%
• Shelf life is three years from date of manufacture when stored as stated above
• Replace garments if damaged, heavily contaminated or in accordance with local work practice
• Handle and dispose of contaminated garments with care and in accordance with national regulations

Limited Use Do not tumble dry
Do not wash Do not dry-clean
Do not bleach Flammable — keep away from sparks or flames
Do not iron

Product must never be altered or modified.

Height Chest

<table>
<thead>
<tr>
<th>Size</th>
<th>Height</th>
<th>Chest</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>66 – 69 in</td>
<td>167 – 176 cm</td>
</tr>
<tr>
<td></td>
<td>36 – 39 in</td>
<td>92 – 100 cm</td>
</tr>
<tr>
<td>L</td>
<td>69 – 71 in</td>
<td>174 – 181 cm</td>
</tr>
<tr>
<td></td>
<td>39 – 43 in</td>
<td>100 – 108 cm</td>
</tr>
<tr>
<td>XL</td>
<td>70 – 74 in</td>
<td>179 – 187 cm</td>
</tr>
<tr>
<td></td>
<td>43 – 45 in</td>
<td>108 – 115 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>73 – 76 in</td>
<td>186 – 194 cm</td>
</tr>
<tr>
<td></td>
<td>45 – 49 in</td>
<td>115 – 124 cm</td>
</tr>
<tr>
<td>3XL</td>
<td>76 – 78 in</td>
<td>194 – 200 cm</td>
</tr>
<tr>
<td></td>
<td>49 – 52 in</td>
<td>124 – 132 cm</td>
</tr>
<tr>
<td>4XL</td>
<td>78 – 81 in</td>
<td>200 – 206 cm</td>
</tr>
<tr>
<td></td>
<td>52 – 55 in</td>
<td>132 – 140 cm</td>
</tr>
</tbody>
</table>

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

Important Notice
This guide is only an outline. It should not be used as the only means for selecting protective apparel. Before using any protective apparel, 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. Sections 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 user’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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For More Information
Technical Assistance in U.S. 1-800-243-4630
3M.com/PPESafety or m.3M.com/PPESafety
Technical Assistance in Canada 1-800-267-4414
3M.ca/PPESafety

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