



## 3M™ Protective Coverall 4530

### Description

The 3M™ Protective Coverall 4530 is designed to help protect against certain light liquid splashes (Type 6) and dusts (Type 5).

The key features include:

- Breathable material to help reduce heat buildup and promote comfortable wear
- Knit cuffs with elasticized waist and ankles for increased comfort and freedom of movement
- Three panel hood design for compatibility with complementary PPE
- Two-way zipper with sealable storm flap
- Reinforced gusset for increased durability
- Flame resistant treatment offering secondary protection against heat and flames
- Anti-static coating on both sides

### Materials





- Suit: SMMS Polypropylene, Blue
- Back panel: SMMS Polypropylene, White
- Zipper: Nylon on Polyester Braid
- Elastic: Neoprene Rubber
- Cuffs: Polyester
- Thread: Polyester

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

### Approvals

CE approved under PPE Directive (89/686/ECC), Category III  
Article 11B Supervision: SGS United Kingdom, LTD.  
Notified Body Number: 0120

### Comfort and Protection

	<b>Liquid Protection</b>	Type 6 (EN 13034). Whole suit reduced spray test (EN ISO 17491-4)*
	<b>Dust Protection</b>	Type 5 (EN ISO 13982-1). Inward Leakage results: $L_{\text{min},82/90} < 30\%$ ; $L_{\text{S},8/10} < 15\%$ , $L_{\text{S},8/10} < 15\%$ .
	<b>Anti-static</b>	Anti-static coating on both sides (EN 1149-1:1995)**
	<b>Flame Resistance</b>	Secondary protection against heat and flame (EN 533:1997). Index 1*** (Excluding knit cuffs)

\* In the whole suit test, liquid spray is applied to the subject for 1 minute. During this time 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. Requirement: Passes when the stained area inside is 3 times smaller than the calibration stain area.

\*\* All apparel must be grounded for anti-static treatment to be effective. Electrostatic propensity may decrease with wearing time and/or severe conditions.

\*\*\* WARNING: Cuffs are not flame resistant and must be worn under gloves. Garments must be worn over primary FR garment (EN533 Index 2 or 3) and not be worn next to skin when FR is required.

### Applications and Performance

<b>Non-Hazardous Particulates</b>	Yes	<b>Hazardous Liquid Splash</b>	No*
<b>Non-Hazardous Liquid Splash</b>	Yes	<b>Hazardous Liquid Spray</b>	No
<b>Hazardous Dusts and Fibers</b>	Yes	<b>Organic Solvents</b>	No
<b>Liquid Continuous Contact/ Immersion</b>	No	<b>Acids/Alkalis</b>	Yes, if chemical is compatible with suit material*
<b>Gases and Vapors</b>	No	<b>Heat and Flame</b>	Secondary protection must be worn over primary FR garments (Index 2 or 3), must not be worn next to skin. Cuffs are not flame resistant.

\* For additional chemical penetration data, please contact your local 3M Technical Service Representative.

Typical applications may include insulation installation, coal dust in power plants, woodworking, welding, metal polishing, metal grinding, general powder handling, food processing, general industrial clean-up, light-duty building cleaning and machine or vehicle maintenance.

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.

Test	Standard	Result	Standard*	Class**/Result
Abrasion	ASTM D4157 Cycles to Rupture	2150	EN 530	Class 1
Flex Cracking			ISO 7854	Class 6
Tear Resistance Trapezoidal	Tear Strength ASTM D5733 (warp/fill)	8 lbf / 13 lbf	ISO 9073-4	Class 2
Tensile Strength	ASTM D751, Section 11, Procedure A (longitude/traverse)	35 lbs / 28 lbs	ISO 13934-1	Class 2
Puncture Resistance	ASTM D2582 (MD/CD)	23 N / 25N	EN 863	Class 1
Bursting Resistance	ASTM D751, Section 18	143N	EN 13274-4	Pass
Resistance to Ignition	CPSC 16 CFR PT 1610	Class 1	EN ISO 13935-2	Class 3
Seam Strength	ASTM D751, Section 66 (Peak Load/Seam Strength)	18 lbf / 9 lbf/in		
Hydrostatic Resistance	ASTM D751, Procedure B	230 mm	EN ISO 6530	Class 3
Liquid Penetration Resistance*** – 30% H <sub>2</sub> SO <sub>5</sub>			EN ISO 6530	Class 3
Repellency to Liquids*** – 10% NaOH			EN ISO 6530	Class 3
Liquid Penetration Resistance*** – 10% NaOH			EN ISO 6530	Class 3
Anti-static Coating on Both Sides			EN 1149-1:1995	Pass

\* The standards EN 13034:2005 and EN ISO 13982-1:2004, and EN 1073-2:2002 define performance classes

\*\* 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.

## Use Limitations

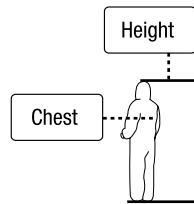
Do not use for:

- Contact with heavy oils, 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
- Primary protection from heat and flame. Must be worn over an EN 533 Index 2 or 3 garments, and not worn next to skin when flame resistance is needed.

## Sizing

An appropriate size garment should be selected to allow sufficient movement for the task. Meets ANSI 101-1996 (R2008) sizing guidelines.

	Height		Chest	
<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
- 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



Secondary protection against heat and flame



Do not iron

Product must never be altered or modified.

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 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. 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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