

4530

Technical Data Sheet



3M™ Protective Coverall 4530

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

Key Features

- Breathable material to help reduce heat stress and for comfortable wear
- Elasticated waist and ankles for convenience and freedom of movement
- Three panel hood designed for compatibility with complimentary PPE
- Knit cuffs for increased comfort
- Two-way zipper with sealable storm flap
- Reinforced gusset
- Flame resistant treatment offering limited protection against heat and flames
- Anti-static coating on both sides*

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



Liquid Protection Type 6 (EN 13034). Whole suit reduced spray test.**



Dust Protection Type 5 (EN ISO 13982-1). Inward Leakage results:
 $L_{jmm,82/90} < 30\%$; $L_{S,8/10} < 15\%$.



Anti-static Anti-static coating on both sides (EN 1149-1:1995).*



Flame Resistance Limited protection against heat and flame (EN 533:1997). Index 1/0.***

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

** 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.

*** Must be worn over an Index 2 or 3 garments and must not be worn next to skin.

Materials

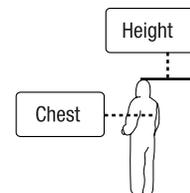
Suit	SMMS Polypropylene, Blue
Back Panel	SMMS Polypropylene, White
Zipper	Nylon on Polyester Braid
Elastic	Neoprene Rubber
Cuffs	Polyester
Thread	Polyester

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

Sizing

An appropriate size garment should be selected to allow sufficient movement for the task.

	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
4XL	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 wash



Do not dry clean



Do not bleach



Flammable — keep away from sparks or flames



Do not iron



Limited Use



Do not tumble dry

Product must never be altered or modified.

Use Limitations

Do not use for:

- Contact with heavy oils or combustible liquids
- Exposure situations resulting in spray or liquid build-up 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 — coverall must be worn over an EN 533 Index 2 or 3 garments and not worn next to skin when flame resistance is needed

Applications and Performance

Non-Hazardous Particulates	Yes	Hazardous Liquid Splash	No†
Non-Hazardous Liquid Splash	Yes	Hazardous Liquid Spray	No
Hazardous Dusts and Fibers	Yes	Organic Solvents	No
Liquid Continuous Contact/ Immersion	No	Acids/Alkalis	Yes, if chemical is compatible with suit material†
Gases and Vapors	No	Heat and Flame	Limited protection (excluding cuffs) must be worn over Index 2 or 3 garments; must not be worn next to skin

† For additional chemical penetration data, please call your local 3M Technical Service Representative.

Typical applications may include: insulation laying, 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. 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.

Test	Standard*	Class**/Result
Abrasion	EN 530	Class 1
Flex cracking	ISO 7854	Class 6
Tear resistance	ISO 9073-4	Class 2
Tensile strength	ISO 13934-1	Class 2
Puncture resistance	EN 863	Class 1
Resistance to ignition	EN 13274-4	Pass
Seam strength	EN ISO 13935-2	Class 3
Repellency to liquids*** – 30% H ₂ SO ₄	EN ISO 6530	Class 3
Liquid penetration resistance*** – 30% H ₂ SO ₅	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 368 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.

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 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.

WARRANTY: 3M will replace or refund the purchase price of any Occupational Health and Environmental Safety Division (OH&ESD) product found to be defective in material, manufacture, or not in conformance with any express warranty. This warranty is exclusive and is in lieu of any implied warranty of merchantability or fitness for a particular purpose.

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