4530 Technical Data Sheet

3M™ Protective Coverall 4530

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

Key Features

- Breathable SMMS material for reduced heat stress and comfortable wear
- Elasticated waist and ankles for convenience and freedom of movement
- Three panel hood designed to give a better fit when worn with 3M eyewear and respirators
- Knitted cuffs for increased comfort
- Two-way zipper with sealable storm flap
- Fabric is treated to provide limited Flame Spread Resistance (FSR) when worn over an Index 2/3 garment
- Enhanced Triangular gusset

Comfort and Protection

	Liquid Protection	Type 6 (EN 13034:2005 +A1:2009). Whole suit reduced spray test.
	Dust Protection	Type 5 (EN ISO 13982-1:2004 +A1:2010). Inward Leakage results: $L_{jmn,82/90} < 30$ %; $L_{S,8/10} < 15$ %.
	Anti-static	Anti-static coating on both sides (EN 1149-1:2006).*
	Flame Resistance	Limited protection against flame spread. Material has been tested to ISO 15025:2000 & complies with ISO 14116:2008 requirements for limited flame spread resistance Index 1.**
	Nuclear	Radioactive particulates (EN1073-2:2002) Class 1

⚠ Except EN863 puncture resistance. Does not offer protection against radiation.

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

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

Approvals

CE approved under PPE Directive (89/686/ECC), Category III

Certificate under Article 10, EC Type-Examination, by BTTG Testing & Certification Ltd., Notified Body Number 0338.

Certificate under Article 11, EC quality control, issued SGS United Kingdom, Ltd., Notified Body Number: 0120.

Materials

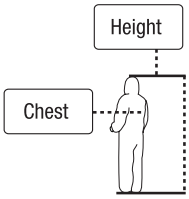
Suit	SMMS Polypropylene, Blue
Back Panel	SMMS Polypropylene, White
Zipper	Nylon on Polyester Braid
Elastic	Synthetic Rubber
Cuffs	Polyester
Thread	Polyester

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.

	Height		Chest	
S	64 – 67 in	164 – 170 cm	33 – 36 in	84 – 92 cm
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 vapours
- 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 applicable regulations

Storage and Disposal

Do not wash

Do not dry clean

Do not bleach

Flammable – Keep away from flames, see user instructions**. Material complies with ISO 14116 for Index 1 flame spread resistance

Do not iron

Single use – do not re-use

Do not tumble dry

Use Limitations

Do not use for:

- Contact with heavy oils, or combustible liquids
- Environments with high mechanical risks (abrasion, tear, cuts)
- Environments with exposure to hazardous substances beyond CE Type 5/6 certification
- Primary protection from heat and flame. Must be worn over ISO 14116 Index 2 or 3 garments, and not worn next to skin when flame resistance is needed

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Applications and Performance

Non-Hazardous Particulates	Yes
Hazardous Liquid Splash	Yes
Hazardous Dusts and Fibres	Yes
Liquid Continuous Contact/Immersion	No
Gases and Vapours	No
Hazardous Particulates	Yes, if chemical is compatible with suit material†
Hazardous Liquid Spray	No
Organic Solvents	No
Acids/Alkalis	Yes if chemical is compatible with suit material†
Heat and Flame	Limited protection (excluding any component parts such as elastics, cuffs, bindings and threads) must be worn over Index 2 or 3 garments, must not be worn next to skin

† For additional chemical penetration data, please contact 3M.

Typical applications may include welding, powder handling, light-duty maintenance, building cleaning, metal grinding or polishing and woodworking.

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.

Test	Standard	Class**/ Result
Abrasion	EN 530	Class 1
Flex cracking	ISO 7854	Class 5
Tear resistance	ISO 9073-4	Class 1
Tensile strength	EN ISO 13934-1	Class 1
Puncture resistance	EN 863	Class 1
Resistance to ignition	EN 13274-4	Pass
Seam strength	EN ISO 13935-2	Class 2
Repellency to liquids – 30% H_2SO_4	EN ISO 6530	Class 3/3
Liquid penetration resistance – 30% H_2SO_4	EN ISO 6530	Class 3/3
Repellency to liquids – 10% NaOH	EN ISO 6530	Class 3/3
Liquid penetration resistance – 10% NaOH	EN ISO 6530	Class 3/3
Anti-static coating on both sides	EN 1149-1	Pass

** The maximum Class is 6 unless otherwise noted. For additional technical data please contact 3M.

The table 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.

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

Important Notice

Any sale of 3M goods and services will be subject to 3M Standard Conditions of Sale. The user is responsible for determining the suitability of the products for their intended use.

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