# Technical Datasheet



## 3M<sup>™</sup> 4520 Protective Coverall

The 3M<sup>™</sup> 4520 Protective Coveralls are designed to help protect against hazardous dusts (Type 5) and light liquid splashes (Type 6).

### **Key Features**

- · Innovative, lightweight material offering excellent breathability leading to improved comfort
- Good protection against dusts and certain light liquid splashes
- Elasticated waist and ankles for convenience and freedom of movement and knitted cuffs for extra comfort
- · Three-panel hood design for a better fit and compatibility with other PPE
- Two-way zipper and storm flap with tape tabs for enhanced protection
- Reinforced gusset
- · Low-linting properties and anti-static coating on both sides\*

#### **Comfort and Protection**



Liquid Protection Type 6 - Light Liquid Splashes (EN 13034:2005 + A1:2009)



Dust **Protection**  Type 5 - Solid Airborne Particulates

EN ISO 13982-1:2004



Anti-static

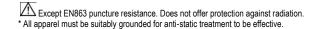
Anti-static coating\* on both sides

(EN 1149-5:2008)



Nuclear

Radioactive particulates (EN 1073-2:2002) Class 1



#### **Approvals**

CE approved under PPE Directive (89/686/ECC), Category III Article 10 Certification: BTTG Testing & Certification Ltd.

Notified Body Number: 0338

Article 11B Supervision: SGS United Kingdom Ltd.

Notified Body Number: 0120

#### **Materials**

Suit SMMMS Polypropylene (white)

**Back Panel** SMMMS Polypropylene (green)

Metal / Nylon / Polyester Braid **Zipper** 

**Elastic** Neoprene Rubber

Cuffs Polyester

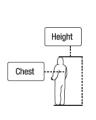
**Thread** Polyester / Cotton

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 whilst maintaining a secure fit.

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, 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%
- Expected shelf life is three years from date of manufacture when stored as
- Replace garments if damaged, heavily contaminated or in accordance with local work practice or regulations
- Handle and dispose of contaminated garments with care and in accordance with applicable regulations

#### **Limited Use**



Do not wash



Do not dry clean



Do not bleach



Flammable — keep away from sparks or flames



Do not iron



Single Use - do not re-use



Do not tumble dry

#### **Warnings and Limitations**

Before use read and understand all user instructions and be sure that the product is suitable for the application and fitted correctly. Product must never be altered or modified.

Do not use for:

- · Contact with heavy oils, sparks or flame, or combustible liquids;
- Environments with high mechanical risks (abrasions, tears, cuts);
- Contact with hazardous substances beyond Type 5/6 certification:
- · Environments with conditions of excessive heat.



#### **Applications and Performance**

Non-Hazardous Particulates	Yes	Light Liquid Splash	Yes if chemical is compatible with suit material $\!\!\!\!\!\!^{\dagger}$
Non-Hazardous Liquid Splash	Yes	Heavy Splash/ Liquid Spray	No
Hazardous Dusts and Fibres	Yes	Organic Solvents	No
Liquid Continuous Contact/ Immersion	No	Acids/Alkalis	Yes if chemical is compatible with suit material <sup>†</sup>
Gases and Vapours	No		

† The chemicals against which the product has been tested and certified are listed in the user instructions. For additional chemical penetration data, please contact 3M on 0870 60 800 60 (UK) or 1 800 320 500 (Ireland).

Typical applications may include: industrial clean-up and maintenance, light-duty building cleaning, insulation laying, metal polishing, pesticide handling/agriculture (particulate aerosols only), woodworking, and powder handling. 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. Note: The maximum class is 6 unless otherwise noted.

Test		Standard/ Test Method	Class/ Result
	Abrasion resistance (visual assessment)	EN 530:1994	Class1
	Flex cracking (visual assessment)	ISO 7854:1995	Class5
	Tear resistance	ISO 9073-4 :1997	Class 1
	Tensile strength	EN ISO 13934-1:1999	Class 1
	Puncture resistance	EN 863:1995	Class 1
	Bursting resistance	EN ISO 13938-1	Class 1
	Resistance to ignition	EN 13274-4:2001	Pass
	Seam strength	EN ISO 13935-2:1999	Class2
	Repellency to liquids – 30% H <sub>2</sub> SO <sub>4</sub>	EN ISO 6530:2005	Class 3 of 3
	$Liquid\ penetration\ resistance-30\%\ H_2SO_4$	EN ISO 6530:2005	Class 3 of 3
	Repellency to liquids – 10% NaOH	EN ISO 6530:2005	Class 3 of 3
	Liquid penetration resistance – 10% NaOH	EN ISO 6530:2005	Class 3 of 3
	Anti-static coating on both sides	EN 1149-1:2006	Pass
	Radioactive particulates (TIL)	EN 1073-2:2002	Class 1 of 3

#### 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. Selection 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.

LIMITATION OF LIABILITY: Except as provided above, 3M shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential arising out of the sale, use or misuse of 3M OH&ESD products, or the user's inability to use such products.



## 3M Health & Safety Helpline

0870 60 800 60 (UK) 1 800 320 500 (Ireland)

#### **3M Safety Solutions**

**3M United Kingdom** 3M Centre Cain Road, Bracknell Berkshire RG12 8HT Tel: 0870 60 800 60 www.3M.co.uk/ohes

**3M Ireland Limited**The Iveagh Building
The Park, Carrickmines
Dublin 18
Tel: 1 800 320 500