



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M™ 4515 Protective Coverall

The 3M™ 4515 Protective Coveralls are designed to help protect against hazardous dusts (Type 5) and light liquid splashes (Type 6).

Key Features

- Helps provide basic protection against dusts and light liquid splashes
- Elasticated waist, ankles, and wrists for convenience and freedom of movement
- Two-way zipper with storm flap (including tape tabs) for convenience and additional protection

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



Nuclear

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



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

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 SMS Polypropylene (various colours available)

Zipper Metal / Nylon / Polyester Braid

Elastic Neoprene Rubber

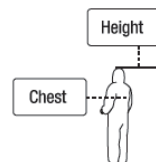
Thread Polyester / Cotton

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 stated
- 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



Limited 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;
- liquids are able to pool and/or collect on the suit;
- 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	Hazardous Liquid Splash	Yes if chemical is compatible with suit material†
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†
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: asbestos inspection, coal dust in power plants, metal polishing, light-duty building cleaning, machine or vehicle maintenance, paint spraying, pharmaceutical, general industrial clean-up, insulation laying, woodworking, general powder handling and food processing. **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	Class 1
Flex cracking (visual assessment)	ISO 7854:1995	Class 5
Tear resistance	ISO 9073-4:1997	Class 2
Tensile strength	ISO 13934-1:1999	Class 1
Puncture resistance	EN 863:1995	Class 1
Bursting resistance	ISO 13938-1:1999	Class 3
Resistance to ignition	EN 13274-4:2001	Pass
Seam strength	EN ISO 13935-2:1999	Class3
Repellency to liquids – 30% H ₂ SO ₄	EN ISO 6530:2005	Class 3 of 3
Liquid penetration resistance – 30% H ₂ SO 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
Radioactive particulates	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. Selections 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.



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