




# 3M™ Protective Apparel Line Card

## Breathability

## Liquid Resistance

Breathability				Liquid Resistance																			
Particle		Liquid		Particle		Liquid																	
																							
<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• SMS</li> </ul> <p><b>Model(s):</b></p> <ul style="list-style-type: none"> <li>• 4515</li> <li>• 4520</li> </ul>				<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• SSMMS</li> <li>• Liquid repellency treatment (oil and alcohol resistance)</li> </ul> <p><b>Model:</b></p> <ul style="list-style-type: none"> <li>• 4532+</li> </ul>				<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Microporous PE laminate (front)</li> <li>• SMS (Back)</li> </ul> <p><b>Model(s):</b></p> <ul style="list-style-type: none"> <li>• 4535</li> <li>• 4540+</li> </ul>				<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Microporous PE laminate</li> </ul> <p><b>Model:</b></p> <ul style="list-style-type: none"> <li>• 4510</li> </ul>				<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Non-microporous PE Laminate</li> </ul> <p><b>Model:</b></p> <ul style="list-style-type: none"> <li>• 4565</li> </ul>				<p><b>Material:</b></p> <ul style="list-style-type: none"> <li>• Multi-Layer</li> <li>• Non-Microporous Laminate</li> </ul> <p><b>Model:</b></p> <ul style="list-style-type: none"> <li>• 4570</li> </ul>			
<p>Splash Type 6</p>				<p>Spray Type 4</p>				<p>Jet Type 3</p>															

## Materials

### SMS

Spunbound Meltblown Spunbound are robust breathable fabrics, designed to offer a good barrier against hazardous particles and limited liquid splashes

### Microporous PE Laminate

Polypropylene PE laminate is designed to offer a good barrier against hazardous particles and limited liquid splashes, while the micropores allow for some breathability

### Non-microporous PE Laminate

Designed to offer a very good barrier against hazardous particles and certain liquid splashes and sprays

### Multi-Layer Non-Microporous PE Laminate

Designed to offer an excellent barrier against hazardous particles and certain liquid splashes, sprays and jets.

# Protection Types


Depending on the materials and construction, protective coveralls can be designed for either hazardous applications (certified to CE Category III) or non-hazardous applications.

Products for hazardous applications can be tested and certified to any of six different “Type” standards, providing guidance on suitability of use.

Protection Type	Standard	3M Coveralls
<b>Type 1</b> - Gas Protection		N/A
<b>Type 2</b> - Non-Gas Protection		N/A
<b>Type 3</b> - Liquid Jet Protection Suits providing the highest protection against hazardous liquids, including pressurised liquids.	EN 14605 EN ISO 17491-3	4570
<b>Type 4</b> - Liquid Spray Protection Protection against liquid sprays, used for higher volume, longer duration or more hazardous liquid exposures than Type 6.	EN 14605 EN ISO 17491-3	4565, 4570
<b>Type 5</b> - Particle Protection Suits providing protection against hazards dusts.	EN ISO 13982-1	4515, 4520, 4532+, 4535, 4540+, 4510, 4565, 4570
<b>Type 6</b> - Limited Liquid Spray Protection Suits offering low-level protection against small liquid splashes and light mists.	EN 13034 EN ISO 17491-4	4515, 4520, 4532+, 4535, 4540+, 4510, 4565, 4570

# Additional Standards

**ANTI-STATIC EN1149-5** Anti-static Coating (EN 1149-5)



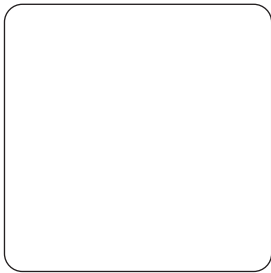
4510, 4520, 4532+, 4535, 4540+, 4565, 4570  
Please refer to product user instructions and packaging for more information.

	4510	4565	4570
<b>ASTM 1671</b> Bloodborne pathogen penetration resistance			✓
<b>ASTM 1670</b> Synthetic Blood Penetration test		✓	✓
<b>ISO 16603</b> Assesses resistances to penetration under pressure by synthetic blood (visual assessment)	✓	✓	✓
<b>ISO 16604</b> Models resistance to viral penetration under pressure (biological assay)		✓ Class 6	✓ Class 6
<b>ISO 22610</b> Assesses resistances to wet bacterial penetration during mechanical contact	✓ Class 2	✓ Class 6	✓ Class 6
<b>ISO 22611</b> Determines resistance to penetration by aerosols containing bacteria	✓ Class 1	✓ Class 3	✓ Class 3
<b>ISO 22612</b> Assesses resistance to dry microbial penetration using talc contaminated with spores	✓ Class 3	✓ Class 3	✓ Class 3

# Protective Coveralls

## 3M™ Protective Coverall 4515

Made from lightweight and, breathable material and is designed to offer protection against hazardous dusts and limited liquid splashes. Available in white, blue and orange.



- Robust, highly breathable material
- 2-way zipper with storm flap
- Elastic cuffs, waist and ankles
- Low-linting
- Available in white, blue and orange

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4515	M	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case
4515	L	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case
4515	XL	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case
4515	2XL	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case
4515	3XL	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case
4515	4XL	Orange	SMS	Type 5	Splash Type 6	●	20 Each/Case

## 3M™ Protective Coverall 4520

Made from lightweight and, breathable material and is designed to offer protection against hazardous dusts and limited liquid splashes.



- Elasticized hood, ankles and waist
- 2 way zip with sealable tab on storm flap
- 3-panel hood
- Knitted cuffs
- Low-linting
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4520	M	White / Green	SMS	Type 5	Splash Type 6	●	20/cs
4520	L	White / Green	SMS	Type 5	Splash Type 6	●	20/cs
4520	XL	White / Green	SMS	Type 5	Splash Type 6	●	20/cs
4520	2XL	White / Green	SMS	Type 5	Splash Type 6	●	20/cs
4520	3XL	White / Green	SMS	Type 5	Splash Type 6	●	20/cs
4520	4XL	White / Green	SMS	Type 5	Splash Type 6	●	20/cs

# Protective Coveralls

## 3M™ Protective Coverall 4532+

Made from lightweight, highly breathable material and is designed to offer protection against hazardous dusts and limited liquid splashes with specialist treatment providing enhance liquid repellence to certain oils and alcohols.



- Elasticized hood, ankles and waist
- 2-way zip with storm flap
- Knitted cuff
- Low linting
- Anti-static
- Treatment to help improve the repellency to certain oils and alcohols

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4532+	M	Blue	SSMMS*	Type 5	Splash Type 6	●	20 Each/Case
4532+	L	Blue	SSMMS*	Type 5	Splash Type 6	●	20 Each/Case
4532+	XL	Blue	SSMMS*	Type 5	Splash Type 6	●	20 Each/Case
4532+	2XL	Blue	SSMMS*	Type 5	Splash Type 6	●	20 Each/Case
4532+	3XL	Blue	SSMMS*	Type 5	Splash Type 6	●	20 Each/Case

\*with specialist treatment providing enhance liquid repellency to certain oils and alcohols

## 3M™ Protective Coverall 4535

Provides a balance of comfort and protection. The microporous PE laminate at the front of the garment is designed to offer a good barrier to limited liquid splash, while the large SMS breathable back panel helps increase breathability for wearer comfort.



- Elasticized hood, ankles and waist
- 2-way zip with storm flap
- Knitted cuff
- Low linting
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4535	M	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs
4535	L	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs
4535	XL	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs
4535	2XL	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs
4535	3XL	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs
4535	4XL	White / Blue	PE laminate (front) SMS (Back)	Type 5	Splash Type 6	●	20/cs

# Protective Coveralls

## 3M™ Protective Coverall 4540+

Provides a balance of comfort and protection. The microporous PE laminate at the front of the garment is designed to offer a good barrier to limited liquid splash, while the large SMS breathable back panel helps increase breathability for wearer comfort.



- Back panel made of breathable SMMMS material for improved air circulation and reduced heat stress
- Elasticized hood, ankles and waist
- 2-way zip with storm flap
- Knitted cuff
- Ultra-low linting
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4540+	M	White/Blue	PE laminate (front) SMMMS (back panel)	Type 5	Splash Type 6	●	20 Each/Case
4540+	L	White/Blue	PE laminate (front) SMMMS (back panel)	Type 5	Splash Type 6	●	20 Each/Case
4540+	XL	White/Blue	PE laminate (front) SMMMS (back panel)	Type 5	Splash Type 6	●	20 Each/Case
4540+	XXL	White/Blue	PE laminate (front) SMMMS (back panel)	Type 5	Splash Type 6	●	20 Each/Case
4540+	3XL	White/Blue	PE laminate (front) SMMMS (back panel)	Type 5	Splash Type 6	●	20 Each/Case

## 3M™ Protective Coverall 4510

Provides a balance of comfort and protection. The microporous PE laminate at the front of the garment is designed to offer a good barrier to limited liquid splash, while the large SMS breathable back panel helps increase breathability for wearer comfort.



- Elasticized hood, ankles, cuffs and waist
- 2-way zip with storm flap
- Ultra-low linting
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4510	M	White	Microporous PE laminate	Type 5	Splash Type 6	●	20/cs
4510	L	White	Microporous PE laminate	Type 5	Splash Type 6	●	20/cs
4510	XL	White	Microporous PE laminate	Type 5	Splash Type 6	●	20/cs
4510	2XL	White	Microporous PE laminate	Type 5	Splash Type 6	●	20/cs
4510	3XL	White	Microporous PE laminate	Type 5	Splash Type 6	●	20/cs

# Protective Coveralls

## 3M™ Protective Coverall 4565

Made from a soft lightweight fabric with taped seams, providing a very good barrier to hazardous particles and limited liquid splash and spray.



- Elasticized hood, ankles, cuffs and waist
- 2-way zip with storm flap
- 3-panel Hood
- Ultra-low linting
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4565	M	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs
4565	L	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs
4565	XL	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs
4565	2XL	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs
4565	3XL	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs
4565	4XL	White / Red	Non-microporous PE Lamniate	Type 5	Spray Type 4	●	25/cs

## 3M™ Protective Coverall 4570

Designed to offer a barrier to hazardous particles and certain liquid splashes, sprays and jets.



- Elasticized hood and ankles
- Double front closing system with large ring zip pull for easy wear
- Ultra-low linting
- Elasticized cuff and thumb loop
- Anti-static

Product I.D.	Size	Color	Material	Particle	Liquid	Hood	BU/UOM
4570	M	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs
4570	L	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs
4570	XL	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs
4570	2XL	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs
4570	3XL	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs
4570	4XL	Grey	Multi Layer Non-microporous PE Lamniate	Type 5	Jet Type 3	●	12/cs

# Over Boot

## 3M™ Overboot 450



- Elastic at the calf
- Universal size with ties to help provide a good fit
- Made of the same laminated material as used on the 3M protective coverall 4510
- Laminated material ties to minimise particle shed and contamination in controlled environments such as cleanrooms
- Anti-static treated
- 3M overboot 450 has a PVC slip reduction sole

Product I.D.	Description	Color	Material	Liquid	BU/UOM
450	Over boots, reduced slip sole with ties	White	Microporous PE laminate	Spray Type 4	100/cs

### 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 PSD products, or the user's inability to use such products. THESE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.**



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AV# AV011513171