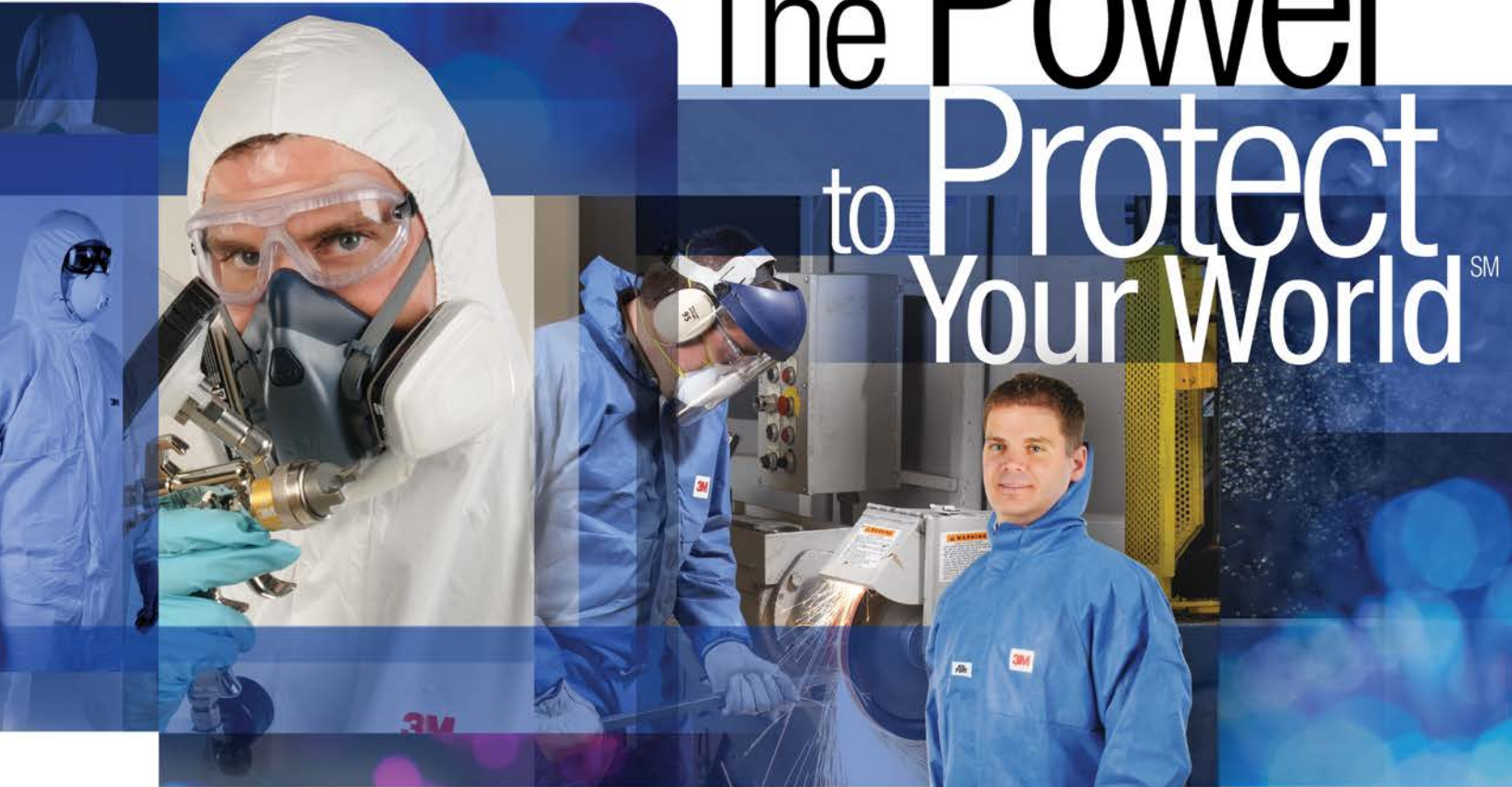


Personal Safety Division
3M™ Protective Coveralls

The Power to Protect Your WorldSM



3M



Designed for the Demands

of the Industrial Workplace

Harmful dust. Light liquid splashes and sprays. Biological contaminants. These are just some of the dangers inherent in today's industrial workplace. 3M introduces a line of quality disposable coveralls to help protect at-risk workers.

3M™ Protective Coveralls feature enhanced safety construction and material technologies that allow lightweight comfort. Used for a variety of applications, 3M protective coveralls offer quality and reliability: enabling workers to maneuver freely, and do their jobs efficiently.



A Protective Coverall to Fit Your Safety Needs

Why Choose 3M™ Protective Coveralls?

- 3M™ Protective Coveralls contain no components made from natural rubber latex or silicone
- Enhanced garment construction and quality
- Designed with extra material in the arms and legs for improved mobility
- Two-way zippers for added on/off convenience
- Storm flaps to help provide additional protection
- Seamless shoulder and sleeve tops to provide fewer entry points for contaminants and increased comfort
- Variety of sizes: M to 4XL
- Certified to European Standards to help protect against appropriate industrial hazards
- 3M™ Protective Clothing is supported by global technical and sales representatives

Covering More of Your Safety Needs

3M is a worldwide leader in occupational safety, bringing an ever-widening array of advanced personal protection equipment (PPE) to the workplace. 3M protective coveralls are one more example of this continuing commitment. Combine them with other compatible products from our full line of PPE for a total, one-source solution.

Our Coveralls Feature

- Seamless shoulders and sleeve tops provide fewer entry points for potentially harmful contaminants
- A front zipper storm flap for increased protection
- Three designs with breathable fabrics and a soft and lightweight feel for improved comfort

Please refer to the application chart at the end of the brochure



Splash and Dust Protection

3M™ Protective Coverall 4510

Entry level, splash and dust protection

- Constructed of quality laminated microporous material
- Helps provide basic protection against light liquid splashes and hazardous dusts
- Elasticated waist, ankles and wrists for convenience and freedom of movement
- Two-way zipper with storm flap for extra protection
- Low-linting
- Anti-static coating on both sides

Typical applications may include

- Abatement/Remediation
- Agriculture
- Cleaning and Maintenance
- Metal Polishing
- General Industry/Manufacturing eg. Coal dust; fibreglass/cellulose insulation installation
- Non-Hazardous Liquids
- Painting, Powder coating
- Pharmaceutical/Cleanroom Applications

Please refer to the application chart at the end of the brochure

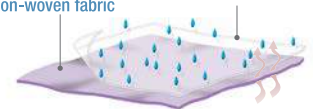


Two-way Zipper with Storm Flap

Microporous Laminate

Internal layer of non-woven fabric

Advanced film outer layer



Protection with Comfort

3M™ Protective Coverall 4520 Entry level protection with comfort

- Breathable material to help reduce heat stress and promote comfortable wear, while helping provide basic protection against light liquid splashes and hazardous dusts
- Elasticated waist, ankles and knit cuff for convenience, comfort and freedom of movement.
- Three panel hood design for compatibility with complementary PPE
- Two-way zipper with storm flap for convenience and to help provide additional protection
- Anti-static coating on both sides

Typical applications may include

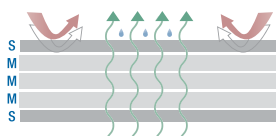
- Abatement/Remediation
- Agriculture
- Cleaning and Maintenance
- General Industry/Manufacturing eg. Coal dust; fibreglass/cellulose insulation installation; woodworking
- Non-Hazardous Liquids
- Metal Polishing

Please refer to the application chart at the end of the brochure



Three Piece Hood Design

Breathable SMMMS Polypropylene



Breathable Comfort with Flame Resistance

3M™ Protective Coverall 4530E Breathable protection with flame resistance

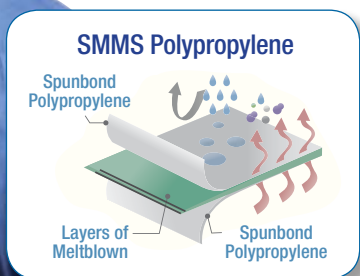
- Designed to help protect against certain light liquid splashes (Type 6) and hazardous dusts (Type 5)
- Breathable material with anti-static coating to help reduce heat build-up and promote comfortable wear
- Elastic cuffs with elastic waist and ankles for increased comfort and freedom of movement
- Three panel hood design for compatibility with complementary PPE
- Two-way zipper with sealable storm flap for added on/off convenience and extra protection from contaminants
- Reinforced gusset for increased durability
- Seamless shoulders and sleeve tops provide fewer entry points for potentially harmful contaminants
- Designed with extra material in the arms and legs for improved mobility
- Variety of sizes: M to 4XL
- Individually packaged in cases of 20

FSR, Flame Spread Resistance, material has been tested to ISO 15025:2000 and complies with ISO 14116:2008 requirements for limited flame spread, Index 1. When garment is worn over a primary flame resistant thermal protective garment (Index 2,3) it may help provide limited flame spread resistance. Do not use next to skin.

Typical applications may include

- Abatement/Remediation
- Agriculture
- Maintenance (refinery)
- General Industry/Manufacturing eg. Coal dust; fibreglass/cellulose insulation installation; General powder handling
- Non-Hazardous Operations
- Welding/Metalworking

Please refer to the application chart at the end of the brochure



Combined Protection and Comfort

3M™ Protective Coverall 4540+ Enhanced performance with comfort built in

- Helps provide good protection against light liquid splashes and hazardous dusts, including nuclear particles
- Constructed of non-woven, laminated microporous material with anti-static coating on both sides
- Knit cuffs with elasticated waist and ankles for increased wearer comfort and freedom of movement
- Three panel hood design for compatibility with complementary PPE
- Two-way zipper with sealable storm flap for convenience and to help provide additional protection
- Reinforced gusset adds extra durability
- Breathable back panel may help improve air circulation and reduce heat stress

Body Heat Build-Up

- Body in relaxed state emits 100 watts of heat energy
- Body in stressful tasks can raise emissions to as high as 700 watts
- Heat disperses through perspiration
- Heat stress can cause lethargy, skin irritation and fainting

Typical applications may include

- Abatement/Remediation
- Agriculture
- Cleaning and Maintenance
- General Industry/Manufacturing
- Non-Hazardous Operations
- Painting
- Pharmaceutical Applications
- Metal Polishing

Please refer to the application chart at the end of the brochure



Breathable Back Panel



Extra Protection and Durability

3M™ Protective Coverall 4565

Excellent protection and durability

- Helps protect against hazardous dusts, light liquid chemical splashes and low pressure liquid sprays
- Constructed of a low-linting, non-woven, laminated material with anti-static coating on both sides
- Knit cuffs with elasticated waist and ankles for increased wearer comfort and freedom of movement
- Three panel hood design for compatibility with complementary PPE
- Two-way zipper with sealable storm flap for convenience and to help provide additional protection
- Taped seams across the suit for additional protection
- Offers protection from certain biological contaminants (tested according to EN 14126), see Class Data in Technical Data Sheet or user instructions

Please refer to the application chart at the end of the brochure

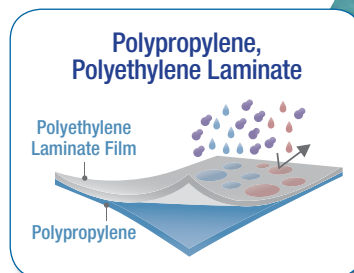
Typical applications may include

- Abatement/Remediation
- Agriculture
- Biological/Biohazard
- Cleaning and Maintenance
- Liquid Chemical Handling and Transferring
- Painting Powder Coating
- Pharmaceutical/Cleanroom Applications
Pharmaceutical Powder Handling

Please refer to the application chart at the end of the brochure



Taped Seams



3M™ Protective Oversleeves 444

Add-on accessory for clothing protection

- Constructed from laminated microporous material
- Universal size



3M™ Protective Overboots 450

Add-on accessory for footwear protection

- Constructed from laminated microporous material
- Universal size with ties to ensure a good fit
- Elasticized at the calf
- Sole designed to reduce the risk of slipping



3M™ Protective Lab Coat 4400

Add-on accessory for clothing protection

- Visitors coat
- Internal pocket on the wearers LHS
- Elasticated wrists
- Front zip closing (single way)
- Low-linting, Universal size
- Material: non-treated Polypropylene, 45gsm, White or (blue-non-stock), same as 4500 Coverall



3M™ Protective Lab Coat 4440








Add-on accessory for clothing protection

- Knitted cuffs
- Front zip closing (single way)
- Low-linting
- Anti-static treatment. Universal size
- Material: Polypropylene-polyethylene microporous laminate (55 gsm) White, same as 4535
- 3M logo on chest

Protective Coverall Selection Guide

Which 3M™ Protective Coverall is Right for You?



Aspect	Standard*	4510	4520	4530E	4540+	4565
Protective Clothing	EN 340	•	•	•	•	•
 Type 6 Splash	EN 13034	•	•	•	•	•
 Type 5 Dust	EN ISO 13982-1	•	•	•	•	•
 Type 4 Spray	EN 14605					•
 Biohazard	EN 14126:2003					•
See class data in test table.						
 Anti-Static	EN 1149-1 EN 1149-5	•	•	•	•	•
All apparel must be grounded for antistatic treatment to be effective.						
 Nuclear	EN 1073-2	•	•		•	•
 Flame Resistance	EN 533 Index 1			•		
Must be worn over EN 533 Index 2 or 3 garments and not worn next to skin when flame resistance is needed.						

*Check user instructions and technical data sheets for more information.

	4510	4520	4530E	4540+	4565
Abatement/Remediation					
Asbestos Abatement and Inspection	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Exposure to Radioactive Particles	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input checked="" type="radio"/>
Lead Abatement	<input type="radio"/>	<input checked="" type="radio"/>	<input <sup="" checked="" type="radio"/> (1)	<input type="radio"/>	
Mold Remediation/Mold Spores	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Agriculture					
Animal Waste (solid)		<input checked="" type="radio"/>			
Fertilizer Application (Dry/Granular)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pesticide Application (Dry/Granular)		<input checked="" type="radio"/>	<input type="radio"/>		
Pesticide Application (Liquid)	<input type="radio"/>			<input checked="" type="radio"/>	<input type="radio"/>
Biological/Biohazard					
Blood (no potentially infectious diseases)					<input checked="" type="radio"/>
Bodily Fluids (no potentially infectious diseases)					<input checked="" type="radio"/>
Hazardous Biological Aerosol					<input checked="" type="radio"/>
Cleaning and Maintenance					
Dirt (general)		<input checked="" type="radio"/>	<input type="radio"/>		
General Industrial Clean-up and Processing	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Grease (general)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Light-duty Building Cleaning	<input type="radio"/>	<input checked="" type="radio"/>			
Machine or Vehicle Maintenance	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Maintenance (Refinery)			<input checked="" type="radio"/>		
Sewage					<input checked="" type="radio"/>
General Industry/Manufacturing					
Coal Dust	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Electronics/Circuit Board Assembly ⁽²⁾		<input checked="" type="radio"/>	<input type="radio"/>		
Fibreglass/Cellulose Insulation Installation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Food Processing	<input type="radio"/>	<input checked="" type="radio"/>		<input type="radio"/>	
General Industrial Clean-up and Processing	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
General Powder Handling	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lime Handling		<input checked="" type="radio"/>	<input type="radio"/>		
Liquid Chemical Handling					<input checked="" type="radio"/>
Liquid Chemical Transfer					<input checked="" type="radio"/>
Warehousing		<input checked="" type="radio"/>	<input type="radio"/>		
Woodworking		<input checked="" type="radio"/>	<input type="radio"/>		

Suggested Acceptable Alternative

	4510	4520	4530E	4540+	4565
Non-Hazardous Operations					
Non-hazardous Aerosols (sprays)	○	●	○	○	
Non-hazardous Liquids	○	●	○	○	
Non-hazardous Solids		●			
Painting					
Paint/Coating Spraying	○			●	○
Paint/Coating Spraying (w/ Isocyanate paints) ⁽³⁾	○			●	○
Powder Coating					●
Pharmaceutical/Cleanroom					
Clean Room Applications (ISO Class 1 - 3)					●
Clean Room Applications (ISO Class 4 - 9)	○			○	●
Pharmaceutical Powder Handling	○			●	○
Welding/Metalworking					
Metal Grinding			●		
Metal particulate (chromium, beryllium, etc)	○	●	○	○	
Metal Polishing	○	●	○	○	
Welding (worn over appropriate welding garment)			●		

(1) Suggested if working with heat or open flames

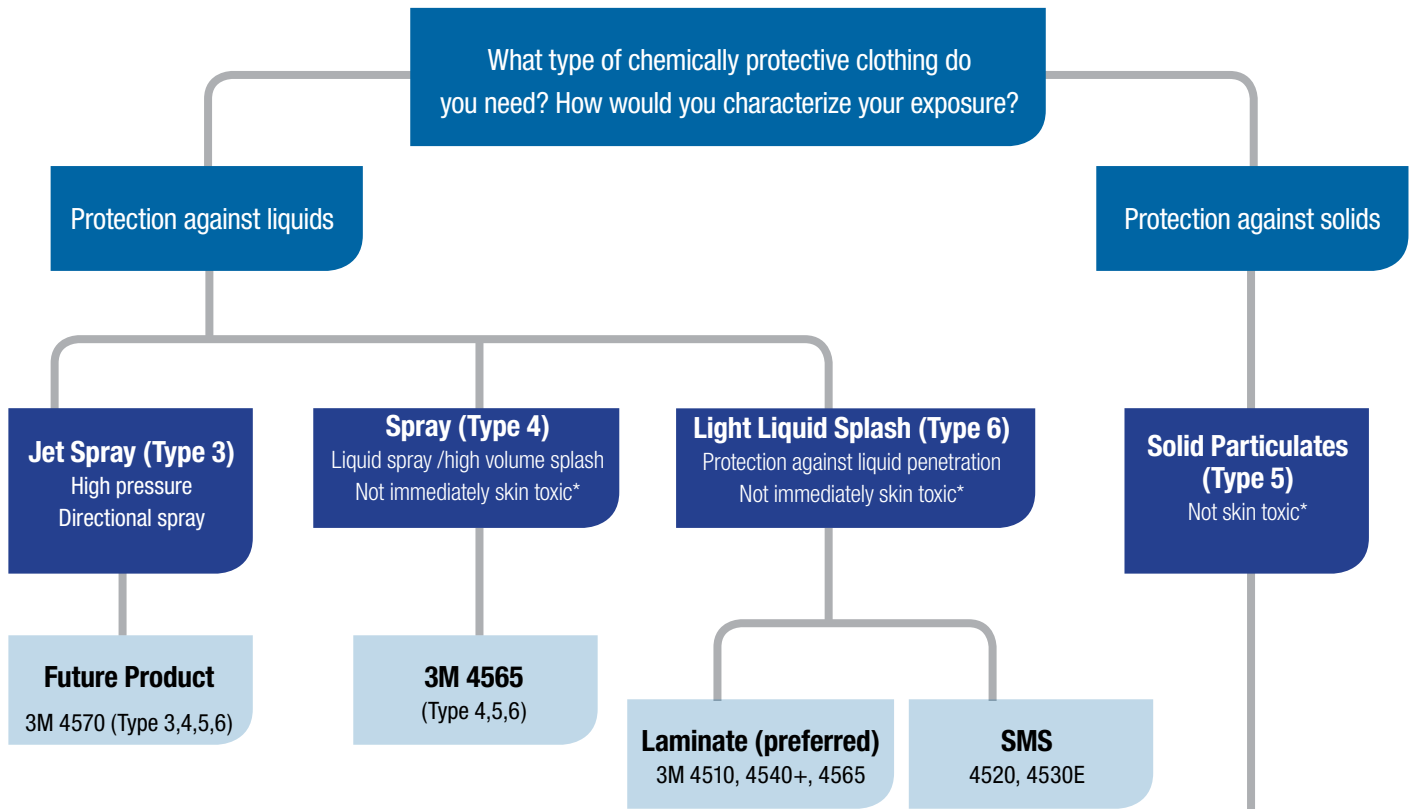
(2) For applications conducted in a controlled environment refer to "Cleanroom Applications"

(3) Where heavy liquid contact is anticipated contact 3M Technical Service at 1-800-267-4414

As with any PPE, the selection of protective clothing should be based on the specific workplace conditions and results of the workplace specific PPE hazard assessment conducted by a competent person knowledgeable of the actual working conditions and limitation of the PPE. Contact 3M Technical Service for specific chemical permeation, penetration, and repellency data.



3M Protective Coveralls Product Category Selector



* Additional Features / Claims of 3M Type 4/5/6 Coveralls

3M laminate products are generally considered to have better liquid repellency while the 3M SMS products are generally more breathable & abrasion resistant. Back panel of 3M 4540+ is SMS.

Contact with Sparks/Flame	3M 4530E (2° protection only)
Low Linting	3M 4510, 4540+, 4565
Taped Seams	3M 4565
Permeation Data (ASTM F739)	3M 4565
Anti-Static	3M 4510, 4520, 4530E, 4540+, 4565
Heat Stress	3M 4520, 4540+
Radioactive Particulates	3M 4510, 4520, 4540+, 4565

Types per ISO 16602 (2007).

WARNING: This product selector is intended to provide guidance on key features of the 3M product range. The products shown highlight some of the products which may be considered but product suitability will depend on the particular situation. Product selection should always be made by a competent person knowledgeable of the actual working conditions and limitations of the PPE. This guide considers only skin protection –user must wear suitable additional PPE to protect against hazards to other parts of the body. In addition, once you have selected the garment 'type' and checked the chemical compatibility, you should also ensure the material is robust enough to withstand the mechanical risks of the environment.





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. 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.

WARRANTY: 3M will replace or refund the purchase price of any Personal Safety Division (PSD) 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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