

3M Occupational Health & Environmental Safety Division
3M™ Protective Coveralls



Built for protection
Designed for comfort



3M Protective Coveralls help protect workers from certain industrial contaminants – with comfort built in.





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.

The line of 3M™ Protective Coveralls features options with enhanced safety construction and material technologies that provide enhanced breathability and lightweight comfort. Used for a variety of applications, 3M protective coveralls offer quality and reliability: helping workers to maneuver freely and do their jobs efficiently.



A Protective Coverall to Fit Your Needs

Why Choose 3M™ Protective Coveralls?

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

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



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 certain light liquid splashes and hazardous dusts
- Elasticized 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

*Consult class results in Technical Data Sheet or User Instructions for more information

Typical Applications*

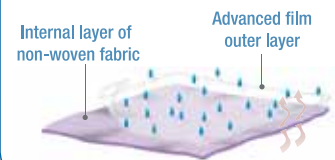
- Metal Polishing
- Machine or Vehicle Maintenance
- General Industrial Clean-up and Processing
- Paint Spraying



Two-way Zipper with Storm Flap



Microporous Laminate



Protection with Comfort

3M™ Protective Coverall 4520

Entry level protection with comfort

- Breathable material to help reduce heat build-up and promote comfortable wear, while helping provide basic protection against certain light liquid splashes and hazardous dusts
- Elasticized waist, ankles and wrists for convenience 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

*Consult class results in Technical Data Sheet or User Instructions for more information

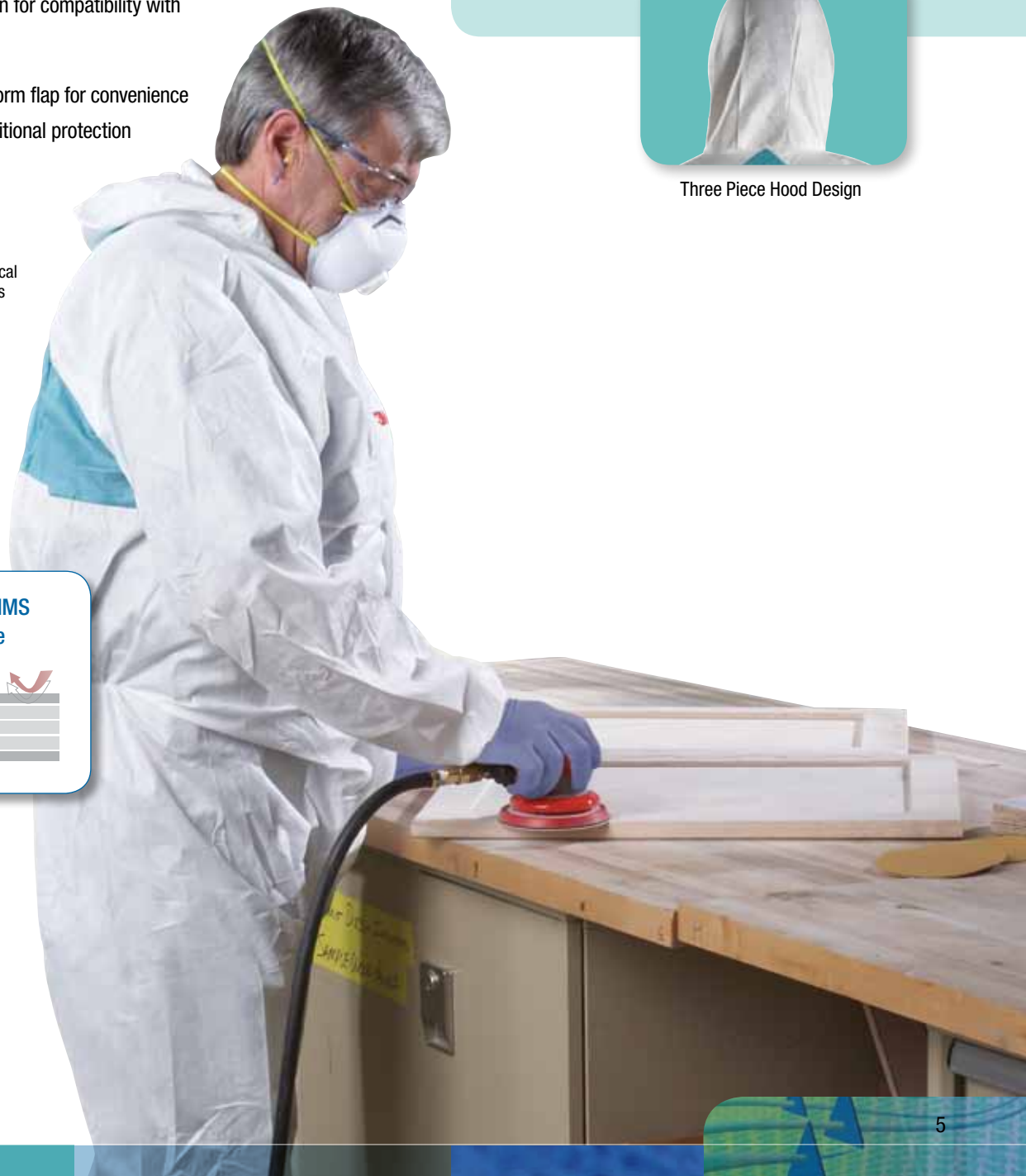
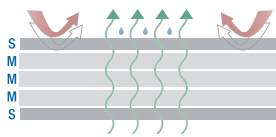
Typical Applications*

- Woodworking
- Light-duty Building Cleaning
- Insulation Installation
- Coal Dust in Power Plants



Three Piece Hood Design

Breathable SMMMS Polypropylene



Breathable Protection with Flame Resistance

3M™ Protective Coverall 4530

Breathable protection with flame resistance

- Breathable material to help reduce heat build-up and promote comfortable wear, while helping to protect against certain dusts and light liquid splashes
- Knit cuffs with elasticized 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 convenience and to help provide additional protection
- Reinforced gusset for increased durability
- Flame resistant treatment offering limited protection against heat and flames
- Anti-static coating on both sides

*Consult class results in Technical Data Sheet or User Instructions for more information

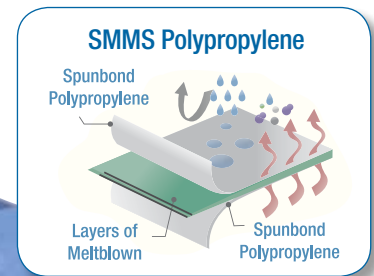
Designed for use as secondary FR protection.
Coverall meets ISO 14116 Index 1 and must be worn over ISO 14116 Index 2 or 3 garments and not worn next to skin when flame resistance is needed.
Knit cuffs are not flame resistant.

Typical Applications*

- Metal Grinding
- Welding
- Light-duty Maintenance
- General Powder Handling



Knit Cuffs



Combined Protection and Comfort

3M™ Protective Coverall 4540+

Enhanced performance with comfort built in

- Helps protect against certain light liquid splashes and hazardous dusts, including nuclear particles
- Constructed of a low-linting, non-woven, laminated microporous material with anti-static coating on both sides
- Knit cuffs with elasticized 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 convenience and to help provide additional protection
- Reinforced gusset adds extra durability
- Breathable back panel helps improve air ventilation and reduce heat build-up

*Consult class results in Technical Data Sheet or User Instructions for more information

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 build-up can cause lethargy, skin irritation and fainting

Thermographic Images
Person active for 15 minutes



3M™ Protective Coverall 4540+ without breathable panel



3M™ Protective Coverall 4540+ with breathable panel

Typical Applications*

- Asbestos Inspection
- Machine or Vehicle Processing
- Pharmaceutical Manufacturing
- Paint Spraying



Breathable Back Panel



Extra Protection and Durability

3M™ Protective Coverall 4565

Excellent protection and durability

- Helps protect against certain 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 elasticized 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 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). Consult class results in Technical Data Sheet or User Instructions.

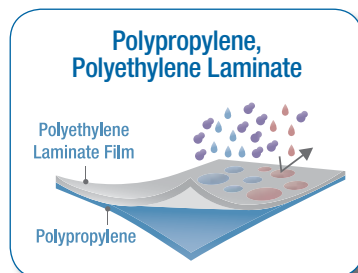
*Consult class results in Technical Data Sheet or User Instructions for more information

Typical Applications*

- Asbestos Handling and Stripping
- Tank Cleaning and Maintenance
- Health Care
- Pharmaceutical Manufacturing



Taped Seams



3M™ Protective Overboots 450

Add-on accessory for footwear protection

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



Slip Resistant Sole



Which 3M™ Protective Coverall is Right for You?



Aspect	Standard	4510	4520	4530	4540+	4565
Protective Clothing	EN 340	•	•	•	•	•
 Type 6 Splash	EN 13034/ (EN ISO 17491-4)	•	•	•	•	•
 Type 5 Dust	EN ISO 13982-1	•	•	•	•	•
 Type 4 Spray	EN 14605/ (EN ISO 17491-4)					•
 Biohazard ¹	EN 14126/ ASTM F 1670					•
 Anti-Static ¹	EN 1149 ²	•	•	•	•	•
 Nuclear	EN 1073-2	•	•	•	•	•
 Flame Resistance	ISO 14116 Index 1			• ⁴		

¹Consult class results in Technical Data Sheet or User Instructions for more information

²All apparel must be grounded for anti-static treatment to be effective

³Must be worn over ISO 14116 Index 2 or 3 garments and not worn next to skin when flame resistance is needed

⁴Cuffs are not flame resistant

A broad range of integrated, science-based products... proven, ongoing dedication to occupational safety... that's the 3M difference. We'll continue to lead the way with advanced solutions to help protect workers – with a commitment that extends from head-to-toe!



Application		4510	4520	4530	4540+	4565
Abatement/ Remediation	Asbestos Abatement and Inspection	○	●		○	
	Exposure to Radioactive Particles	○	○		○	●
	Lead Abatement	○	●	○(1)	○	
	Mold Remediation/Mold Spores	○	●	○	○	
Agriculture	Animal Waste (solid)		●			
	Fertilizer Application (Dry/Granular)	○	●	○	○	
	Pesticide Application (Dry/Granular)		●	○		
	Pesticide Application (Liquid)	○			●	○
Biological/ Biohazard	Blood					●
	Bodily Fluids					●
	Hazardous Biological Aerosol					●
Cleaning and Maintenance	Dirt (general)		●			
	General Industrial Clean-up and Processing	○	●	○	○	
	Grease (general)	○	●	○	○	
	Light-duty Building Cleaning	○	●			
	Machine or Vehicle Maintenance	○	○	●	○	
	Maintenance (Refinery)			●		
	Sewage					●
General Industry/Manufacturing	Coal Dust	○	●	○	○	
	Electronics/Circuit Board Assembly (2)		●	○		
	Fiberglass/Cellulose Insulation Installation	○	●	○	○	
	Food Processing	○	●		○	
	General Industrial Clean-up and Processing	○	●	○	○	
	General Powder Handling	○	●	○	○	
	Lime Handling		●	○		
	Liquid Chemical Handling					●
	Liquid Chemical Transfer					●
	Warehousing		●	○		
Woodworking		●	○			
Non-Hazardous Operations	Non-hazardous Aerosols (sprays)	○	●	○	○	
	Non-hazardous Liquids	○	●	○	○	
	Non-hazardous Solids		●			
Painting	Paint/Coating Spraying	○			●	○
	Paint/Coating Spraying (with 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/ Metalwork	Metal Grinding			●		
	Metal particulate (chromium, beryllium, etc)	○	●	○	○	
	Metal Polishing	○	●	○	○	
	Welding (worn over appropriate welding garment)			●		

(1) Suggested if working with heat or open flames

Suggested ● Acceptable Alternative ○

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

(3) Where heavy liquid contact is anticipated, contact 3M Technical Service at 1-800-243-4630

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.

***Contact 3M Technical Services for specific chemical permeation, penetration, repellency data, and biological data.**

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. Sections 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 user'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.

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