

3M Science.
Applied to Life.™



Body Protection

The range of 3M™ Protective Apparel offers a variety of features, from the use of fabrics with specialist treatments for enhanced wear and added protection, to breathable back panels for increased comfort. Our experts can work closely with you, to help you identify hazards and best protect your workers against them.

#3MScienceOfSafety

Materials.

At 3M we have a select and high quality range of Coveralls, which provide protection against many hazards.

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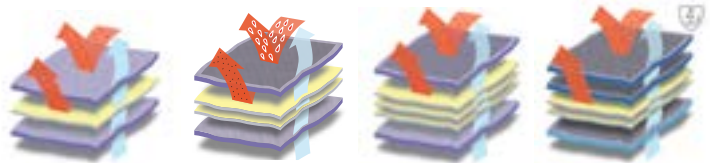
Non-woven Polypropylene.

Offers comfortable light-duty protection against non-hazardous liquids and dust.



Spunbond-meltblown polypropylene (SMS).

'SMS' can be layered differently to adjust the protective and physical properties of the material. Standard SMS-material is very breathable and offers a good barrier against dusts and limited liquid splashes. If treated, as 3M's Protective Coverall 4532+, an enhanced level of splash protection can be achieved.



Microporous laminates.

'Microporous laminates' offer a higher level of liquid splash protection, while the micropores allow for some breathability.



Non-microporous laminates.

'Non-microporous laminates' can offer an even higher level of liquid protection. Adding multiple layers of the laminate can also increase robustness and chemical hold.



Design features.

3M™ Protective Coveralls can offer a variety of features depending on your needs. The illustration below highlights some of the features available:

Contains no components made from natural rubber latex

Two-way zipper for on/off convenience

Anatomical design and fit for optimal wear, coverage and comfort

Elasticized waist and ankles and knit or elastic cuffs on all models for increased comfort and mobility

Three panel hood design on most models for compatibility with complementary PPE

Seamless shoulder and sleeve tops for fewer entry points for contaminants and increased comfort

Storm flap to help provide additional protection

Available in a variety of sizes

• Backed by 3M global technical capabilities and support



3M™ Protective Coverall 4515

The 3M™ Protective Coverall 4515 is an economic solution to protect from hazardous dusts such as asbestos fibres exposed to during site inspection. While protecting on the outside, the breathable material allows air to escape from the inside to reduce heat build-up and discomfort. Available in white, blue and orange, the range is certified as CE Type 5/6 for both hazardous dusts and limited liquid splashes.



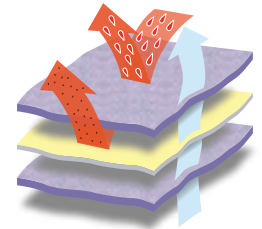
Features and Benefits:

- Excellent barrier against dry particles and limited liquid splash (CE Type 5/6)
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- Robust, highly breathable 50gsm SMS material
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Elastic cuffs, waist and ankles for a better fit and freedom of movement
- Low-linting
- Available in white, blue and orange



Fabric material

The material used in the 3M protective coverall 4515 sandwiches a single thick filtering layer of melt-blown polypropylene between two thinner layers of softer spun bond polypropylene delivering a finished durable, breathable 50gsm protective material that aids air flow to reduce heat stress and improve comfort.



Seam Technology

Seams are serged for Type 5/6 protection.



3M Code	Model #	Description
GT700000224	4515	Coverall White type 5/6/ M
GT700000232	4515	Coverall White type 5/6/ L
GT700000240	4515	Coverall White type 5/6/ XL
GT700000257	4515	Coverall White type 5/6/ XXL
GT700000265	4515	Coverall White type 5/6 3XL
GT700000430	4515	Coverall Orange type 5/6 M
GT700000448	4515	Coverall Orange type 5/6 L
GT700000455	4515	Coverall Orange type 5/6 XL
GT700000463	4515	Coverall Orange type 5/6 XXL
GT700000471	4515	Coverall Orange type 5/6 3XL
GT700000299	4515	Coverall Blue type 5/6 M
GT700000307	4515	Coverall Blue type 5/6 L
GT700000315	4515	Coverall Blue type 5/6 XL
GT700000323	4515	Coverall blue type 5/6 XXL
GT700000331	4515	Coverall blue type 5/6 3XL
GT700000349	4515	Coverall blue type 5/6 4XL

3M™ Overboot 450

- Elastic at the calf
- Universal size with ties to help provide a good fit
- Laminated overboot suitable for protection against non hazardous dust and splash
- Made of the same 55gsm 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

3M Code	Model #	Description
GT500065005	450	White Overboots - Non Slip Sole



Body Protection

3M™ Protective Coverall 4510

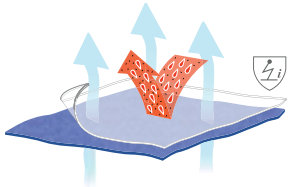
The 3M™ Protective Coverall 4510 is an economic solution which offers protection from hazardous dust and limited chemical splashes such as those from paint spraying. It is certified as CE Type 5/6 (dust and limited liquid splashes). The material is microporous, allowing air and moisture to escape from within the suit, while helping to protect from the hazard on the outside.

Features and Benefits:

- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Laminated microporous material (55 gsm)
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Elastic cuffs, waist and ankles for a better fit and freedom of movement
- Ultra low-linting
- Anti-static treatment to EN 1149 to reduce charge build up (on inner surface)
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- Biological protection tested to EN 14126

Fabric material

The anti-static treated 3M protective coverall 4510 material is made using a layer of soft, spunbond polypropylene and a layer of light, but high quality anti-static treated polyethylene laminate film giving good levels of barrier efficiency and protection.



Seam Technology

Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M™ Protective Coverall 4532+

The 3M™ Protective Coverall 4532+ range is made from a highly breathable and lightweight 5 layered SSMMMS material, providing the wearer with CE Type 5/6 protection with specialist treatments providing anti-static protection and an enhanced liquid repellency. Specialist coatings enable this product to be used in many applications not usually suitable for SMS Based coveralls.

Features and Benefits:

- With treatment to help improve the repellency to certain oils and alcohols
- SSMMMS material, see Fabric Material
- 3-panel elasticated hood for enhanced compatibility with complimentary PPE
- Knitted cuffs and elasticated waist and ankles
- 2-way zipper for added convenience and a storm flap with full sealable tape for extra protection
- Enhanced and reinforced triangular gusset panel to increase product durability
- Anti-static treatment to EN 1149 to reduce charge build up
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles
- Low linting
- Available in blue (with a light blue triangle back panel)

Fabric material

The 3M protective coverall 4532+ is made using a 52gsm SSMMMS, which consists of two outer layers of spunbond polypropylene (SS) encasing two layers of melt-blown polypropylene (MM) and a third layer of spunbond (S) on the underside. The fabric has been specifically designed to be durable whilst enabling air flow thereby reducing heat stress and enhancing wearer comfort. The middle 2 layers act as a filter to effectively protect against noxious dust and splash whilst the outer layers offer strength and increased liquid hold out from the alcohol and oil repellence treatment.



Unique treatment encourages the oil to bead rather than soak through.

Seam Technology

Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M Code	Model #	Description
GT700000851	4510	Coverall White type 5/6 M
GT700000869	4510	Coverall White type 5/6 L
GT700000877	4510	Coverall White type 5/6 XL
GT700000885	4510	Coverall White type 5/6 XXL
GT700000893	4510	Coverall White type 5/6 3XL

3M Code	Model #	Description
GT700058925	4532+	Coverall Blue type 5/6 M
GT700059014	4532+	Coverall Blue type 5/6 L
GT700059022	4532+	Coverall Blue type 5/6 XL
GT700058933	4532+	Coverall Blue type 5/6 XXL
GT700059055	4532+	Coverall Blue type 5/6 3XL

Body Protection

3M™ Protective Coverall 4535

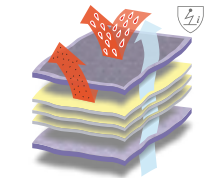
The 3M™ Protective Coverall 4535 provides a superb balance of comfort and protection. Certified as CE Type 5/6 protection, it utilises a dual material design with added comfort features to optimise wearer acceptance.

Features and Benefits:

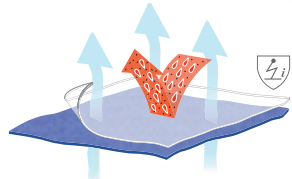
- Excellent barrier against dry particles and certain limited liquid chemical splash (CE Type 5/6)
- Robust, ultra low-linting laminated microporous material
- Extra large breathable back panel for improved air circulation and reduced heat stress
- 2-way zipper with storm flap for added on-off convenience and extra protection
- Knitted cuffs with elasticated waist and ankles for increased comfort and freedom of movement
- Low-linting
- Anti-static treatment to EN 1149 to reduce charge build up (on inner surface, white material only)
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles

Fabric material

The front of the 3M protective coverall 4535 combines a high quality polyethylene laminate providing an excellent barrier, on top of a layer of soft, spunbond polypropylene fibres creating a robust, yet comfortable 55gsm protective fabric. The large blue back panel is made from 5 layers of spunbond and meltblown polypropylene (43 gsm for the SMS panel) giving excellent breathability, whilst maintaining the Type 5/6 level of protection.



SMMMS back-panel.



Microporous laminate fabric.

Seam Technology

Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M™ Protective Coverall 4540+

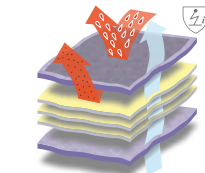
With premium dual material technology and offering CE Type 5/6 protection, the 3M™ Protective Coverall 4540+ is ideal for applications where both high levels of protective performance and comfort are desired.

Features and Benefits:

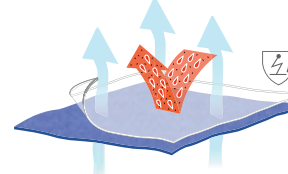
- Excellent barrier against dry particles and certain liquid chemical splash (CE Type 5/6)
- Soft and light, ultra low-linting laminated microporous material that drapes and hangs well over the body facilitating ease of movement
- Back panel made of breathable SMMMS material for improved air circulation and reduced heat stress
- 2-way zipper with fully sealable storm flap for added on-off convenience and extra protection
- 3-panel hood design for enhanced compatibility with complimentary PPE
- Knitted cuffs and elasticated waist and ankles for increased comfort and freedom of movement
- Enhanced and reinforced triangular gusset panel to increase product durability
- Anti-static treatment to EN 1149 to reduce charge build up (on inner surface, white material only)
- Meets inward leakage requirements of EN1073-2 for protection against nuclear particles
- Low linting

Fabric material

The 3M protective coverall 4540+ material is made using a composite layer of soft, spunbond fibres and a layer of light, but high quality polyethylene laminate film giving excellent levels of barrier efficiency and protection (55 gsm). Compared with many other laminates it has a particularly soft feel and drapes well over the body. The blue back panel (43 gsm for the SMS panel) is made from 5 layers of spunbond and meltblown polypropylene giving excellent breathability, whilst maintaining the Type 5/6 level of protection.



SMMMS back-panel.



Microporous laminate fabric.

Seam Technology

Seams are serged for Type 5/6 and certain seams bound for extra protection.



3M Code	Model #	Description
XA100006791	4535	Coverall White/Blue type 5/6 Size M
GT700001073	4535	Coverall White/Blue type 5/6 Size L
XA100006817	4535	Coverall White/Blue type 5/6 Size XL
XA100006825	4535	Coverall White/Blue type 5/6 Size XXL

3M Code	Model #	Description
UU001501566	4540+	Coverall White & Blue type 5/6 M
UU001501574	4540+	Coverall White & Blue type 5/6 L
UU001501582	4540+	Coverall White & Blue type 5/6 XL
UU001501590	4540+	Coverall White & Blue type 5/6 XXL
UU001501608	4540+	Coverall White & Blue type 5/6 3XL

Body Protection

3M™ Protective Coverall 4565

Offering CE Type 4/5/6 protection, the 3M™ Protective Coverall 4565 has an impressive level of liquid barrier protection whilst maintaining its unique soft feel and well fitting drape. With tape applied over the seams a greater level of total protection and seam durability is offered versus Type 5/6 products.

Features and Benefits:

- Excellent barrier against dry particles, liquid certain chemical splash and spray (CE Type 4/5/6)
- Taped seams across the suit for better protection and increased durability
- Soft, well-draping laminated material
- Biological protection tested to EN 14126
- 2-way zipper with fully sealable storm flap for added on-off convenience and extra protection
- 3-panel hood design for enhanced compatibility with complimentary PPE
- Knitted cuffs and elasticated waist and ankles for increased comfort and freedom of movement
- Anti-static treatment to EN 1149 to reduce charge build up
- Ultra low-linting
- Supplied in space saving vacuum packaging
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles

Fabric material

Lighter than previous 3M polyethylene laminate materials (55gsm), the 3M protective coverall 4565 combines a composite base of non woven fibres and a polyethylene film giving good barrier efficiency against many hazardous liquids. The laminate is also ultra-low linting and anti-static treated making it suitable for a wide variety of potentially hazardous applications.



Seam Technology

Seams are stitched and overtaped with a red protective tape to offer increased seam strength and an effective barrier to liquids and particulates.



3M™ Protective Coverall 4570

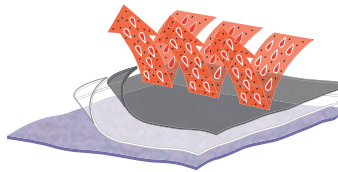
The 3M™ Protective Coverall 4570 is a high performance chemical protective suit, certified to Type 3/4/5/6 levels of protection, making it suitable to protect against a range of chemical jets, sprays and splashes. With additional design features including an enlarged zip and finger loops, a double-closing storm flap system and chin flap, convenience of use can be offered without compromising the high level of protection given.

Features and Benefits:

- Excellent barrier for jet spray and liquid tight chemical protection (CE Type 3/4)
- Biological / infective agent protection maximum classes for EN 14126
- Seams are taped with a multi layer coextruded clear tape, giving a discreet finish and a consistent seal and barrier
- 3-panel hood design for enhanced compatibility with complimentary PPE
- Two stormflaps combined with double colour coded zips to create a double seal for added convenience and extra protection
- Large zip pull for ease of use
- Elasticated cuffs with thumb loops for secure fit during overhead work
- Elasticated waist and ankles for increased comfort and freedom of movement
- Glued in waist elastic and seam free shoulders to minimise entry points etc
- Adhesive chin flap
- Ultra low-linting
- Anti-static treatment to EN 1149 to reduce charge build up (on inner surface)
- Meets inward leakage requirements of EN 1073-2 for protection against nuclear particles

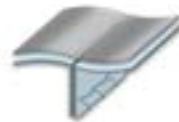
Fabric material

The 3M™ Protective Coverall 4570 uses a heavy-duty material blending a soft inner layer of spun bond fibres with multiple outer layers of a high performance anti-static treated polyethylene laminate, to offer a high level of liquid protection.



Seam Technology

Seams are stitched and overtaped with a clear heat applied multi-layer chemically protective tape to offer increased strength and an effective barrier to liquids and particulates.

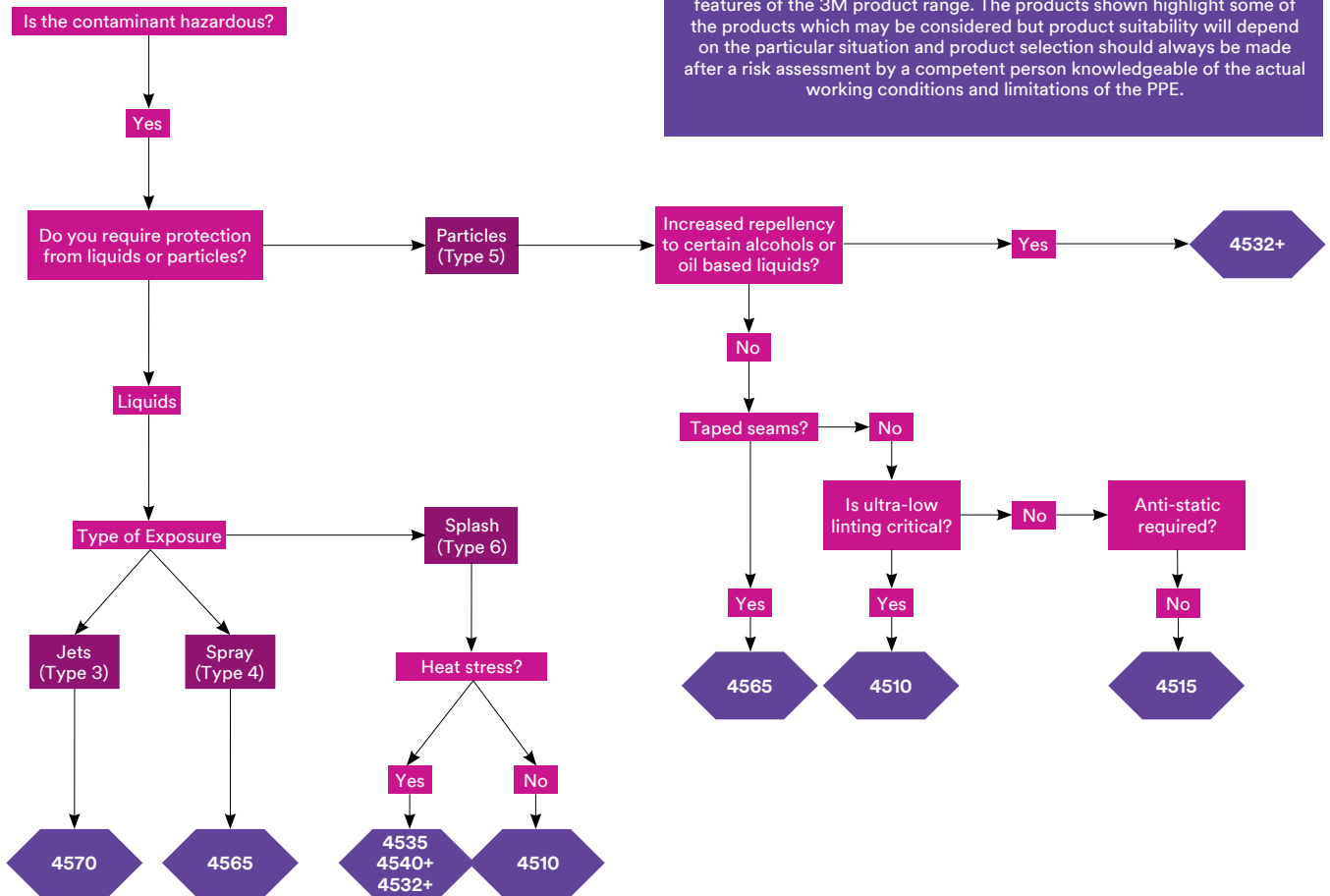


3M Code	Model #	Description
XA100006940	4565	Coverall White & Red type 4/5/6 M
GT700001149	4565	Coverall White & Red type 4/5/6 L
GT700001156	4565	Coverall White & Red type 4/5/6 XL
GT700001164	4565	Coverall White & Red type 4/5/6 2XL
GT700001172	4565	Coverall White & Red type 4/5/6 3XL

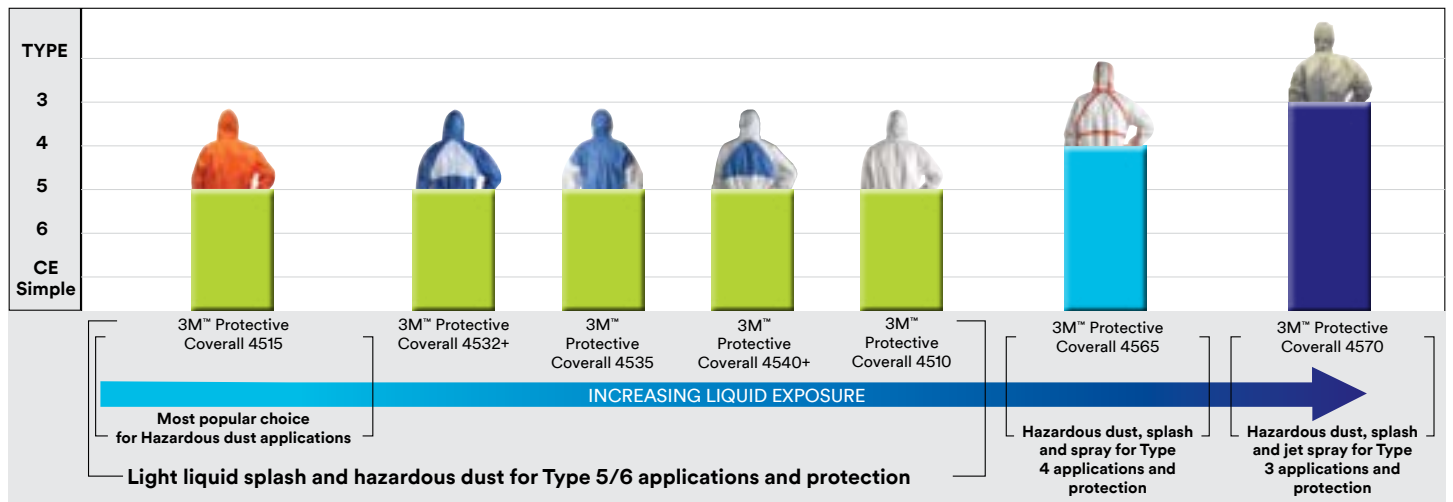
3M Code	Model #	Description
GT700001206	4570	Coverall Grey type 3/4/5/6 M
GT700001214	4570	Coverall Grey type 3/4/5/6 L
GT700001222	4570	Coverall Grey type 3/4/5/6 XL
GT700001230	4570	Coverall Grey type 3/4/5/6 XXL
GT700001248	4570	Coverall Grey type 3/4/5/6 3XL

Product selector diagram.*

*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 and product selection should always be made after a risk assessment by a competent person knowledgeable of the actual working conditions and limitations of the PPE.



3M™ Protective Coveralls Protection Types



This guide is only an outline. It should not be used as the only means for selecting protective clothing. Always read and follow all user instructions supplied with your 3M™ Protective Coveralls in order to ensure correct operation. Final determination as to the suitability of these products for a particular situation is the employers responsibility. If in doubt contact a safety professional. For further information on the performance data of these garments or for any other questions contact your local 3M representative. **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.

Product selector table.*



	3M	4510	4515	4532+	4535	4540+	4565	4570
CE Certification**								
Material Weight		55gsm	50gsm	52gsm	55gsm 43 gsm (SMS panel)	55gsm 43 gsm (SMS panel)	55gsm	92gsm
Size		M-3XL	M-3XL White/Orange M-4XL Blue	M-3XL	M-3XL	M-3XL	M-3XL	M-3XL
Colours								
Light-duty cleaning, warehousing, janitorial			●					
Asbestos Inspection, site preparation, insulation		●	●	●	●	●	●	
Asbestos removal		●	●	●	●	●	●	
Cement manufacturing, metal grinding & polishing		●	●	●	●	●	●	
Light industrial cleaning, machine maintenance		●	●	●	●	●	●	
Pharmaceutical processing, handling toxic powders		●		●	●	●	●	
Painting & coating, resins		●		●	●	●	●	
Cleanrooms		●					●	
Pesticide spraying							●	●
Chemical mixing and handling							●	●
Chemical spills, emergency response, decontamination, tank cleaning								●

● Most popular choice ● Suitable for consideration

* In all cases, product selection should be based on a full risk assessment. 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. This guide is only an outline. It should not be used as the only means for selecting protective clothing. Details regarding performance and limitations are set out on the packaging and user instructions. 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 or 3M – www.3M.eu/safety. Always check the compatibility of the suit material before selection. Please note that the personal protective equipment (PPE) shown highlight some of the products which may be considered. Sections of the most appropriate PPE will depend on the particular situation and should be made only by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

** See user instructions or technical datasheets for full details.



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