



Tychem.

Tyvek.

ProShield.

Comfortable chemical protective clothing for paint applications

Workers who apply paint need dependable protection against dust, sprays and light liquid splashes. But they also need garments that can stand up to bending, crouching and scuffs from rough surfaces like metal, concrete and wood. Protective garments from DuPont, thanks to the inherent properties of their fabrics, combine protection, comfort, and durability, to safeguard people as well as the sensitive processes in which they are involved.

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Paint can be divided into three major categories:

- solvent-based paints,
- water-based paints and
- powder paints.

Each requires a specific level of protection against the risks users are exposed to when preparing surfaces or when applying the paint.

Protection of the wearer

For many types of painting and finishing work requiring liquid and particulate protection, DuPont recommends the use of DuPont™

Tyvek® protective coveralls, combining protection, comfort and durability that have already proved tremendously popular in the motor industry. This range of Category III chemical protective clothing is especially effective against water-based and powder paint, given the size of the particulates.







Just as important, garments made with Tyvek® are always soft, lightweight and air-permeable, providing workers with a high level of on-the-job comfort. Their non-restrictive design gives workers a greater range of movement with less binding—no matter how many hours they put in.

Some specific types of paintwork present risks not only when applying the paint, but also when preparing the paint or cleaning tools, using solvent washers. For all potentially

hazardous tasks, DuPont™ Tychem® 6000 F accessories are strongly recommended and effectively complete the high-level protection offered by Tyvek® protective clothing range.

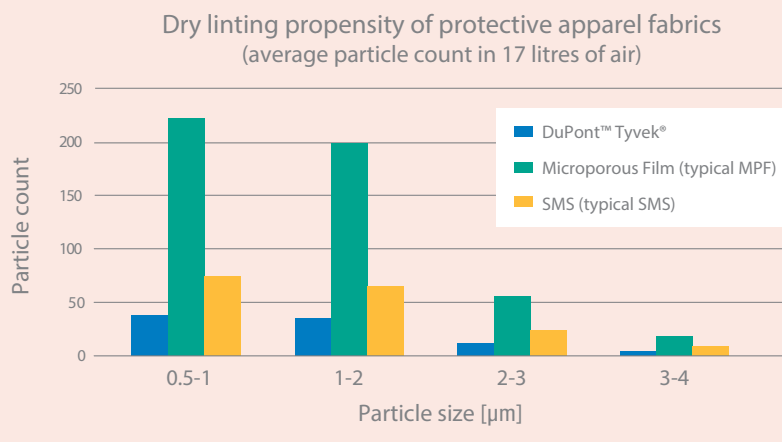
Protection of the process

In some cases, protective clothing must not only protect employees, but also the manufacturing process against human contamination. To avoid additional costs and prevent any quality issues, it is important for the garments used during paint spraying and surface treatment operations not to shed fibres or cause contamination. Tyvek® is highly resistant to abrasion, and its low-linting surface is less likely to affect the final product.

	ProShield® garments	Tyvek® garments				
Models	 ProShield® 60	 Tyvek® 200 EasySafe	 Tyvek® 400 Dual	 Tyvek® 500 Industry	 Tyvek® 500 Xpert	 Tyvek® 600 Plus
Water-based and powder-based paints	✓	✓	✓	✓	✓	✓
Solvent-based paints, paint preparation and tool cleaning						✓*
Benefits	<p>Best in class microporous film at a highly economical price</p> <ul style="list-style-type: none"> • Good barrier against non-hazardous dry particles down to one micron size but Limited comfort: It is permeable to moisture vapour only and it is not air permeable • Limited mechanical resistance • Low protection when abraded 	<p>Great breathability and optimised protection for less demanding applications</p> <ul style="list-style-type: none"> • Based on new optimised polyethylene nonwoven fabric • Softer and with a more open structure but less protective than Tyvek® 500 and Tyvek® 600 • Stitched external seams in yellow for visual identification and differentiation • Antistatic treatment (EN 1149-1) on outside 	<p>Protection and durability where it's needed, improved breathability</p> <ul style="list-style-type: none"> • Tyvek® protection where you need it most • Large breathable SMS back panel from head to ankle for increased comfort • External stitched seams for enhanced protection against penetration from the outside to the inside of the garment 	<p>Protection for workers, and their products, in sensitive industrial environments</p> <ul style="list-style-type: none"> • Helps to protect processes and products against human contamination • Tyvek® zipper and zipper flap for increased wearer and process protection • Internal stitched seams for enhanced process protection 	<p>Setting a new standard of protection in the Type 5 and 6 category through greater protection and comfort</p> <ul style="list-style-type: none"> • High liquid and particulate protection • Exceptional design and comfort • Good breathability thanks to air and moisture vapour permeability • Overall ergonomic shape for perfect fit and protection when moving 	<p>Combining Type 4 performance with the durability, protection and comfort of a Tyvek® garment</p> <ul style="list-style-type: none"> • Combines performance of a Type 4 with the comfort of a nonwoven suit • Stitched and overtaped seams, offering equal barrier as fabric • Hood shape and elastic around hood are designed for a tight fit around full face respirator • Tunnelled elastics (cuff, ankles and face help) to reduce the risk of contamination

* Tyvek® is not a barrier to solvents

Material tests carried out by an independent test laboratory in accordance with BS 6909 showed that Tyvek® sheds considerably fewer particles in comparison with other protective garment materials, e.g. SMS (Spunbond/ Meltblown/ Spunbond) used for ProShield® 20 or MPF (Microporous Film) used for ProShield® 60. This can significantly reduce the need for additional polishing work.



Method for generation and counting of the airborne linting propensity of fabrics in the dry state, BS 6909

Protective clothing and accessories from DuPont for paint application

Choosing the type of protective clothing best suited to the situation therefore depends on a number of factors, including the products handled, the type of paint or surface treatment product, the concentration of the chemicals used and the type of application (projection, spraying, etc.).

Tyvek® 500 accessories				Tychem® 6000 F accessories			
✓	✓	✓	✓				
				✓	✓	✓	✓
Specially designed for use with Tyvek® apparel.				Reinforcing Tyvek® protection where it counts. • robust yet lightweight protection against a broad range of organic and highly concentrated inorganic chemicals and substances.			
<ul style="list-style-type: none"> • Knee-length overboot available in white and in one size • Elasticated top and fixation ties • Stitched internal seams 	<ul style="list-style-type: none"> • Shoe cover available in white and in one size (38 cm long) • Elasticated ankle • Stitched internal seams 	<ul style="list-style-type: none"> • 50 cm long sleeve available in white and in one size • Adjustable arm opening • Stitched internal seams • Upper-arm in blue-coloured thread for identification purposes 	<ul style="list-style-type: none"> • Hood with flange and elasticated face and neck • Available in white and in one size 	<ul style="list-style-type: none"> • Knee-length overboot with slip-retardant sole • Fixation ties • Sole is partially stitched: splash-proof, not fully liquid tight • Available in grey and in one size 	<ul style="list-style-type: none"> • 50 cm long and with wide elastics at cuffs and upper arm • Available in grey and in one size 	<ul style="list-style-type: none"> • Shin-length apron with neck and waist ties • Available in grey and in one size 	<ul style="list-style-type: none"> • Shin-length gown with wrap-over rear closure, hook and loop neck closure and waist ties. Elasticated wrists • Available in grey and sizes S/M and L/2XL



This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience becomes available. DuPont does not guarantee results and assumes no obligation or liability in connection with this information. It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. This information is intended for use by persons having the technical expertise to undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first check that the garment selected is suitable for the intended use. The end-user should discontinue use of garment if fabric becomes torn, worn or punctured, to avoid potential chemical exposure. Since conditions of use are beyond our control, we make no warranties, expressed or implied, including but not limited to warranties of merchantability or fitness for a particular purpose and assume no liability in connection with any use of this information. This information is not intended as a license to operate under or a recommendation to infringe any patent or technical information of DuPont or other persons covering any material or its use. DuPont reserves its right to make minor changes to the products featured in this catalogue.

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