



TYCHF5SBU00

# Tyvek® 500 Xpert

DuPont™ Tyvek® 500 Xpert Blue. Hooded coverall. Ergonomic-protective design. Stitched external seams. Elasticated wrists, ankles and face. Elasticated waist (glued-in). Tyvek® zipper and flap. Blue

Name	Description
Full Part Number	TYCHF5SBU00
Fabric/Materials	Tyvek® 500 Blue
Design	Hooded coverall with elastics
Seam	Stitched (external)
Color	Blue
Other Colors	Green,White
Sizes	SM, MD, LG, XL, 2X, 3X
Quantity/Box	100 per box, individually packed.

## FEATURES & PRODUCT DETAILS

DuPont™ Tyvek® 500 Xpert Blue. Hooded coverall available in blue, in sizes SM to 3X (white and green garments also available). Robust yet lightweight (<180g per garment). 3-piece hood for optimal fit to head and face when turning. Elasticated face, wrists and ankles as well as glued-in waist elastic. Ample crotch area for freedom of movement. Large, easy-to-grasp zipper puller. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size), is ultra-low-linting and antistatically treated. Silicon non-added. Applications for Tyvek® 500 Xpert garments include those found in pharmaceutical handling, chemical processing, the oil and gas industry, general maintenance and operations, automotive spray painting and many others.

- Certified according to Regulation (EU) 2016/425
- Chemical protective clothing, Category III, Type 5-B and 6-B
- EN 14126 (barrier to infective agents), EN 1073-2 (protection against radioactive contamination)
- Antistatic treatment (EN 1149-5) - on inside
- Stitched external seams
- Very low inward leakage thanks to optimised design
- Tyvek® auto-lock zipper and zipper flap for increased protection
- Chemical permeation of coloured Tyvek® is not identical to that of white Tyvek® 500/600

## **ADDITIONAL EQUIPMENT NEEDED**

- Please read, understand and follow the Tychem® User Manual.
- Wear other appropriate PPE such as, but not limited to, respiratory, eye, head, hand, and foot protection based on the hazard assessment.

## SIZES

Product Size	Article Number	Additional info
S	D14936701	MTO
M	D14936717	
L	D14936723	
XL	D14936731	
2X	D14936744	
3X	D14936757	MTO

## Physical Properties



Data relating to mechanical performance of the fabrics used in DuPont chemical protective clothing, listed for the selected garment according to the test methods and relevant European standard, if applicable. Such properties, including abrasion and flex-cracking resistance, tensile strength and puncture resistance can help in the assessment of protective performance.

Property	Test Method	Typical Result	EN
Abrasion Resistance <sup>7</sup>	EN 530 Method 2	>100 cycles	2/6 <sup>1</sup>
Basis Weight	DIN EN ISO 536	44 g/m <sup>2</sup>	N/A
Colour	N/A	Blue	N/A
Exposure to high Temperature	N/A	Melting point ~135 °C	N/A
Flex Cracking Resistance <sup>7</sup>	EN ISO 7854 Method B	>100000 cycles	6/6 <sup>1</sup>
Flex Cracking Resistance at -30°C	EN ISO 7854 Method B	>4000 cycles	N/A
Puncture Resistance	EN 863	>10 N	2/6 <sup>1</sup>
Resistance to water penetration	DIN EN 20811	12 kPa	N/A
Surface Resistance at RH 25%, inside <sup>7</sup>	EN 1149-1	< 2,5 • 10 <sup>9</sup> Ohm	N/A
Surface Resistance at RH 25%, outside <sup>7</sup>	EN 1149-1	No antistatic treatment	N/A
Tensile Strength (MD)	DIN EN ISO 13934-1	>60 N	2/6 <sup>1</sup>
Tensile Strength (XD)	DIN EN ISO 13934-1	>60 N	2/6 <sup>1</sup>
Thickness	DIN EN ISO 534	140 µm	N/A

Trapezoidal Tear Resistance (MD)

EN ISO 9073-4

>10 N

1/6 <sup>1</sup>

<sup>1</sup> According to EN 14325 <sup>2</sup> According to EN 14126 <sup>3</sup> According to EN 1073-2 <sup>4</sup> According to EN 14116 <sup>12</sup>

According to EN 11612 <sup>5</sup> Front Tyvek® / Back <sup>6</sup> Based on test according to ASTM D-572 <sup>7</sup> See Instructions for

Trapezoidal Tear Resistance (XD)

EN ISO 9073-4

>10 N

1/6 <sup>1</sup>

Use for further information, limitations and warnings > Larger than < Smaller than N/A Not Applicable STD DEV

Standard Deviation

## GARMENT PERFORMANCE



Information relating to the protective performance of a garment according to European standards where applicable. Includes important characteristics such as protection against radioactive contamination, seam strength and shelf life. Inward leakage and resistance to penetration by liquids, according to the relevant Type classification, are also detailed.

Property	Test Method	Typical Result	EN
Nominal protection factor <sup>7</sup>	EN 1073-2	>50	2/3 <sup>3</sup>
Seam Strength	EN ISO 13935-2	>75 N	3/6 <sup>1</sup>
Shelf Life <sup>7</sup>	N/A	10 years <sup>6</sup>	N/A
Type 5: Inward Leakage of Airborne Solid Particulates	EN ISO 13982-2	Pass	N/A
Type 6: Resistance to Penetration by Liquids (Low Level Spray Test)	EN ISO 17491-4, Method A	Pass	N/A

1 According to EN 14325 3 According to EN 1073-2 12 According to EN 11612 13 According to EN 11611 5 Front Tyvek ® / Back 6 Based on test according to ASTM D-572 7 See Instructions for Use for further information, limitations and warnings 11 Based on the average of 10 suits, 3 activities, 3 probes > Larger than < Smaller than N/A Not Applicable \* Based on lowest single value

## COMFORT



The comfort of a protective garment during use is largely determined by its weight, its permeability to vapour and air (breathability) and insulating properties. Data on these attributes is provided according to test method and, as with other data, can be compared by garment.

Property	Test Method	Typical Result	EN
Air Permeability (Gurley method)	ISO 5636-5	55 s	N/A
Air Permeability (Gurley method)	ISO 5636-5	Yes	N/A

2 According to EN 14126 5 Front Tyvek® / Back > Larger than < Smaller than N/A Not Applicable



## PENETRATION AND REPELLENCY



A specific test method, EN ISO 6530, is used to measure the indexes of penetration, absorption and repellency of protective clothing material exposed to liquid chemicals. Results listed here reflect the penetration resistance and repellency of DuPont fabrics to 30% sulphuric acid and 10% sodium hydroxide.

Property	Test Method	Typical Result	EN
Repellency to Liquids, Sodium Hydroxide (10%)	EN ISO 6530	>95 %	3/3 <sup>1</sup>
Repellency to Liquids, Sulphuric Acid (30%)	EN ISO 6530	>95 %	3/3 <sup>1</sup>
Resistance to Penetration by Liquids, Sodium Hydroxide (10%)	EN ISO 6530	<1 %	3/3 <sup>1</sup>
Resistance to Penetration by Liquids, Sulphuric Acid (30%)	EN ISO 6530	<1 %	3/3 <sup>1</sup>

<sup>1</sup> According to EN 14325 > Larger than < Smaller than

## BIOLOGICAL BARRIER



Detailed information on the protective performance (resistance to penetration) of DuPont clothing when exposed to biologically contaminated aerosols, liquids and dusts as well as blood, body fluids and blood-borne pathogens. Sorted by relevant European standard.

Property	Test Method	Typical Result	EN
Resistance to Penetration by Biologically Contaminated Aerosols	ISO/DIS 22611	Pass	1/3 <sup>2</sup>
Resistance to Penetration by Blood and Body Fluids using Synthetic Blood	ISO 16603	3,5 kPa	3/6 <sup>2</sup>
Resistance to Penetration by Blood-borne Pathogens using Bacteriophage Phi-X174	ISO 16604 Procedure C	No classification	No classification <sub>2</sub>
Resistance to Penetration by Contaminated Liquids	EN ISO 22610	≤ 15 min	1/6 <sup>2</sup>
Resistance to Penetration by Contaminated Solid Particles	ISO 22612	Pass	1/3 <sup>2</sup>

<sup>2</sup> According to EN 14126 > Larger than < Smaller than

## Warning

- MTO: Made to order terms & conditions apply.
- The garment does not protect against ionizing radiation.
- The information provided herein corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.
- This garment and/or fabric are not flame resistant and should not be used around heat, open flame, sparks or in potentially flammable environments.