



TY0125SHV00

# Tyvek® 500 HV

DuPont™ Tyvek® 500 HV. Collared coverall. Ergonomic-protective design. Stitched external seams. Elasticated wrists and ankles. Elasticated waist (glued-in). Tyvek® zipper and flap. Fluorescent orange with grey reflective bands.

Name	Description
Full Part Number	TY0125SHV00
Fabric/Materials	Tyvek® 500 HV
Design	Collared coverall with elastics
Seam	Stitched (external)
Color	Orange
Sizes	SM, MD, LG, XL, 2X, 3X

## FEATURES & PRODUCT DETAILS

DuPont™ Tyvek® 500 HV. Collared coverall available in fluorescent orange with silver grey reflective bands for day and night visibility, available in sizes SM to 3X. Robust yet lightweight. Mandarin collar, elasticated wrists and ankles as well as glued-in waist elastic. Ample crotch area for freedom of movement. Large, easy-to grasp zipper puller.

Tyvek® 500 HV garments are mainly composed of flash spun polyethylene, providing an ideal balance of protection, durability and comfort. Thanks to their nonwoven structure, they are permeable to both air and water vapour, yet repel water-based liquids and aerosols. They offer an excellent barrier against fine particles and fibres, are ultra-low linting and antistatically treated on the inside. Their bright fluorescent orange colour combined to silver grey reflective bands make them highly visible during the day as well as in the night (when exposed to a light source).

Applications for Tyvek® 500 HV garments include rail, road, mining, waste handling, undergrounds, ports, airports and construction.

- 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), **EN ISO 20471 (High Visibility Clothing, Class 3), RIS-3279-TOM Issue 1**
- 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..
- All-in-one solution: high-visibility (to the highest class), chemical, biological and antistatic protections in one coverall
- Durability & breathability of Tyvek®
- Ideal when working in dangerous environments, darkness or poor weather conditions

SIZES

Product Size	Article Number	Additional info
SM	D15522180	
MD	D15522181	
LG	D15522182	
XL	D15522183	
2X	D15522184	
3X	D15522185	

## 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	47 g/m <sup>2</sup>	N/A
Colour	N/A.	Fluorescent Orange (RIS-3279-TOM)	N/A
Flex Cracking Resistance <sup>7</sup>	EN ISO 7854 Method B	>15000 cycles	4/6 <sup>1</sup>
Puncture Resistance	EN 863	>10 N	2/6 <sup>1</sup>
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	>30 N	1/6 <sup>1</sup>
Tensile Strength (XD)	DIN EN ISO 13934-1	>30 N	1/6 <sup>1</sup>
Trapezoidal Tear Resistance (MD)	EN ISO 9073-4	>10 N	1/6 <sup>1</sup>
Trapezoidal Tear Resistance (XD)	EN ISO 9073-4	>10 N	1/6 <sup>1</sup>

1 According to EN 14325 2 According to EN 14126 3 According to EN 1073-2 4 According to EN 14116 12  
According to EN 11612 5 Front Tyvek ® / Back 6 Based on test according to ASTM D-572 7 See Instructions for  
Use for further information, limitations and warnings > Larger than < Smaller than <= Smaller than or equal to N/A  
Not Applicable STD DEV Standard Deviation

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)	TAPPI T460	200 s	N/A

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

## 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	2/3 <sup>2</sup>
Resistance to Penetration by Blood and Body Fluids using Synthetic Blood	ISO 16603	1,75 kPa	2/6 <sup>2</sup>
Resistance to Penetration by Blood-borne Pathogens using Bacteriophage Phi-X174	ISO 16604	undetermined	undetermined
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	log cfu <1	3/3 <sup>2</sup>

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

## 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   <= Smaller than or equal to



## 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	>5	1/3 <sup>3</sup>
Seam Strength	EN ISO 13935-2	>75 N	3/6 <sup>1</sup>
Shelf Life <sup>7</sup>	N/A.	5 years <sup>6</sup>	N/A
Type 5: Inward Leakage <sup>11</sup>	ISO 16603	2.0 %	N/A
Type 5: Inward Leakage of Airborne Solid Particulates	EN ISO 13982-2	Pass <sup>7</sup>	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 <= Smaller than or equal to N/A Not Applicable \* Based on lowest single value

## HIGH VISIBILITY CLOTHING



Technical information on the high visibility performance of DuPont offering based on tests performed according to EN ISO 20471.

Property	Test Method	Typical Result	EN
Chromaticity coordinates xy	EN ISO 20471	Pass	N/A
Design conception	EN ISO 20471	Pass	N/A
High visibility and reflective tape surfaces	EN ISO 20471	Pass	3/3 <sup>14</sup>
Luminance $\beta$	EN ISO 20471	Pass	N/A
Photometric performance	EN ISO 20471	Pass	N/A

<sup>14</sup> According to EN ISO 20471

## **WARNING**

- 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.