TECHNICAL DATA SHEET







PRODUCT INFORMATION

DuPont™ Tyvek® 500 Xpert/DuPont™ Tyvek® 500 Xpert (Eco Pack). Hooded coverall. Ergonomic-protective design. Stitched external seams. Elasticated wrists, ankles and face. Elasticated waist (glued-in). Tyvek® zipper and flap. White. Eco Pack available - a significant packaging reduction compared to standard packaging.

ATTRIBUTES	
Full Part Number	TYCHF5SWHXP/TYCHF5SWHXB
Fabric /Materials	Tyvek® 500
Design	Hooded coverall with elastics
Seam	Stitched (external)
Color	White
Other Colors	Blue,Green
Sizes	SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X
Quantity/Box	100 per box, individually packed/100 per box, <u>Eco Pack</u> - sustainable packaging concept: 4 units of 25

FEATURES

- 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 both sides
- Stitched external seams
- Very low inward leakage thanks to optimised design

SIZETABLE

PRODUCT SIZE	ARTICLE NUMBER	ADDITIONAL INFO
4XL	D15553613	
5XL	D15553614	
6XL	D15553615	
7XL	D15553616	
S	D14663953	
S	D15359234	Eco Pack
М	D14663967	
М	D15359243	Eco Pack
XL	D14663986	
XL	D15359261	Eco Pack
2X	D14663997	
2X	D15359276	Eco Pack
3X	D14664003	
3X	D15359284	Eco Pack
L	D14663977	





PRODUCT SIZE	ARTICLE NUMBER	ADDITIONAL INFO
L	D15359254	Eco Pack

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Abrasion Resistance ⁷	EN 530 Method 2	>100 cycles	2/6 ¹
Basis Weight	DIN EN ISO 536	41.5 g/m ²	N/A
Colour	N/A (598)	White	N/A
Exposure to high Temperature	N/A (598)	Melting point ~135 °C	N/A
Flex Cracking Resistance ⁷	EN ISO 7854 Method B	>100000 cycles	6/6 ¹
Puncture Resistance	EN 863	>10 N	2/6 ¹
Resistance to water penetration	DIN EN 20811	>10 kPa	N/A
Surface Resistance at RH 25%, inside ⁷	EN 1149-1	< 2,5 • 10 ⁹ Ohm	N/A
Surface Resistance at RH 25%, outside ⁷	EN 1149-1	< 2,5 • 10 ⁹ Ohm	N/A
Tensile Strength (MD)	DIN EN ISO 13934-1	>60 N	2/6 ¹
Tensile Strength (XD)	DIN EN ISO 13934-1	>60 N	2/6 ¹
Trapezoidal Tear Resistance (MD)	EN ISO 9073-4	>10 N	1/6 1
Trapezoidal Tear Resistance (XD)	EN ISO 9073-4	>10 N	1/6 1

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 | N/A Not Applicable | STD DEV Standard Deviation |

GARMENT PERFORMANCE

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Nominal protection factor ⁷	EN 1073-2	>50	2/3 ³
Seam Strength	EN ISO 13935-2	>75 N	3/6 ¹
Shelf Life ⁷	N/A (598)	10 years ⁶	N/A
Type 5: Inward Leakage ¹¹	EN ISO 13982-2	1 %	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\ |\ 11612\ |\ 12\ According\ to\ EN\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\ 11611\ |\$

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

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Air Permeability (Gurley method)	ISO 5636-5	< 45 s	N/A

2 According to EN 14126 | 5 Front Tyvek $^{\odot}$ / Back | > Larger than | < Smaller than | N/A Not Applicable |

PENETRATION AND REPELLENCY

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Repellency to Liquids, Sodium Hydroxide (10%)	EN ISO 6530	>95 %	3/3 ¹
Repellency to Liquids, Sulphuric Acid (30%)	EN ISO 6530	>95 %	3/3 ¹





PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Resistance to Penetration by Liquids, Sodium Hydroxide (10%)	EN ISO 6530	<1 %	3/3 ¹
Resistance to Penetration by Liquids, Sulphuric Acid (30%)	EN ISO 6530	<1 %	3/3 ¹

1 According to EN 14325 \mid > Larger than \mid < Smaller than \mid

BIOLOGICAL BARRIER

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Resistance to Penetration by Biologically Contaminated Aerosols	ISO/DIS 22611	Pass	1/3 ²
Resistance to Penetration by Blood and Body Fluids using Synthetic Blood	ISO 16603	3,5 kPa	3/6 ²
Resistance to Penetration by Blood-borne Pathogens using Bacteriophage Phi-X174	ISO 16604 Procedure C	Pass	2/6 ²
Resistance to Penetration by Contaminated Liquids	EN ISO 22610	? 15 min	1/6 ²
Resistance to Penetration by Contaminated Solid Particles	ISO 22612	Pass	1/3 ²

1 According to EN 14325 \mid > Larger than \mid < Smaller than \mid

CLEANLINESS

PROPERTY	TEST METHOD	TYPICAL RESULT	EN
Dry Linting Propensity, inside	BS 6909	128 Average particle count/17 liters of air	N/A
Dry Linting Propensity, outside	BS 6909	56 Average particle count/17 liters of air	N/A

5 Front Tyvek $^{\odot}$ / Back | > Larger than | < Smaller than | N/A Not Applicable | STD DEV Standard Deviation |

PERMEATION DATA DUPONT™ TYVEK® 500 XPERT

HAZARD / CHEMICAL NAME	PHYSICAL STATE	CAS	BT ACT	BT 0.1	BT 1.0	EN	SSPR	MDPR	CUM 480	TIME 150	ISO
Acetic acid (30%)	Liquid	64-19-7	imm	imm	imm		13.5	0.001			
Ammonium hydroxide (16%)	Liquid	1336-21-6	imm	imm	imm		20.3	0.005			
Ammonium hydroxide (28% - 30%)	Liquid	1336-21-6	imm	imm	imm		16.7	0.014			
Carboplatin (10 mg/ml)	Liquid	41575-94-4	>240	>240	>240	5	<0.001	0.001			
Carmustine (3.3 mg/ml, 10 % Ethanol)	Liquid	154-93-8	imm	imm	>240	5	<0.3	0.001			
Caustic ammonia (16%)	Liquid	1336-21-6	imm	imm	imm		20.3	0.005			
Caustic ammonia (28% - 30%)	Liquid	1336-21-6	imm	imm	imm		16.7	0.014			
Caustic soda (10%)	Liquid	1310-73-2	>240	>480	>480	6	<0.005	0.005			
Caustic soda (40%)	Liquid	1310-73-2	imm	>30	>240	5	<0.005	0.005			
Caustic soda (50%)	Liquid	1310-73-2	imm	>30	>240	5	0.85	0.01			
Caustic soda (>95%, solid)	Solid	1310-73-2	>480	>480	>480	6	<0.01	0.01			
Cisplatin (1 mg/ml)	Liquid	15663-27-1	>240	>240	>240	5	<0.0002	0.0002			
Cyclo phosphamide (20 mg/ml)	Liquid	50-18-0	>240	>240	>240	5	<0.002	0.002			
Dimethyl sulfate	Liquid	77-78-1	imm	imm	imm		>160	0.02			
Doxorubicin HCl (2 mg/ml)	Liquid	25136-40-9	>240	>240	>240	5	<0.003	0.003			
Ethane 1,2-diol	Liquid	107-21-1	imm	imm	imm		6.6	0.002			
Ethylene glycol	Liquid	107-21-1	imm	imm	imm		6.6	0.002			
Etoposide (Toposar®, Teva) (20 mg/ml, 33.2 % (v /v) Ethanol)	Liquid	33419-42-0	>240	>240	>240	5	<0.01	<0.01			
Fluorouracil, 5- (50 mg/ml)	Liquid	51-21-8	imm	imm	>30	2	na	0.001			





HAZARD / CHEMICAL NAME	PHYSICAL STATE	CAS	вт аст	BT 0.1	BT 1.0	EN	SSPR	MDPR	CUM 480	TIME 150	ISO
Formic acid (30%)	Liquid	64-18-6	imm	imm	imm		nm	0.001			
Ganciclovir (3 mg/ml)	Liquid	82410-32-0	>240	>240	>240	5	<0.005	0.005			
Gemcitabine (38 mg/ml)	Liquid	95058-81-4	imm	>60	>240	5	<0.4	0.005			
Glycerine	Liquid	56-81-5	>240	>480	>480	6	0.03	0.01			
Glycerol	Liquid	56-81-5	>240	>480	>480	6	0.03	0.01			
Glycol alcohol	Liquid	107-21-1	imm	imm	imm		6.6	0.002			
Hydrochloric acid (16%)	Liquid	7647-01-0	imm	imm	imm		na	0.05			
Hydrochloric acid (32%)	Liquid	7647-01-0	imm	imm	imm		na	0.05			
Hydrogen peroxide (10%)	Liquid	7722-84-1	>10	>10	>480	6	<0.01	0.01			
Hydrogen peroxide (30%)	Liquid	7722-84-1	imm	imm	imm		>0.11	0.04			
Ifosfamide (50 mg/ml)	Liquid	3778-73-2	imm	imm	>240	5	<0.5	0.003		>480	6
Irinotecan (20 mg/ml)	Liquid	100286-90-6	imm	>240	>240	5	<0.1	0.0028			
Methotrexate (25 mg/ml, 0.1 N NaOH)	Liquid	59-05-2	>240	>240	>240	5	<0.001	0.001			
Mitomycin (0.5 mg/ml)	Liquid	50-07-7	>240	>240	>240	5	<0.0009	0.0009			
Nicotine (9 mg/ml)	Liquid	54-11-5	>480	>480	>480	6	<0.08	0.08			
Nitric acid (10%)	Liquid	7697-37-2	>60	>120	>480	6	na	0.05		>477	5
Nitric acid (30%)	Liquid	7697-37-2	imm	imm	imm		4.6	0.001			
Oxaliplatin (5 mg/ml)	Liquid	63121-00-6	imm	imm	imm		na	0.006			
Paclitaxel (Hospira) (6 mg /ml, 49.7 % (v/v) Ethanol)	Liquid	33069-62-4	>240	>240	>240	5	<0.01	<0.01			
Phosphoric acid (50%)	Liquid	7664-38-2	>480	>480	>480	6	<0.05	0.05			
Potassium chromate (sat)	Liquid	7789-00-6	>480	>480	>480	6	<0.005	0.005			
Potassium hydroxide (40%)	Liquid	1310-58-3	imm	imm	>30	2	0.7	0.001			
Propane -1,2,3-triol	Liquid	56-81-5	>240	>480	>480	6	0.03	0.01			
Sodium acetate (sat)	Liquid	127-09-3	imm	>480	>480	6	<0.1	0.05		>480	6
Sodium chloride (9 g/l)	Liquid	7647-14-5	>240	>240	>240	5	<0.02	0.02			
Sodium hydroxide (10%)	Liquid	1310-73-2	>240	>480	>480	6	<0.005	0.005			
Sodium hydroxide (40%)	Liquid	1310-73-2	imm	>30	>240	5	<0.005	0.005			
Sodium hydroxide (50%)	Liquid	1310-73-2	imm	>30	>240	5	0.85	0.01			
Sodium hydroxide (>95%, solid)	Solid	1310-73-2	>480	>480	>480	6	<0.01	0.01			
Sodium hypochlorite (10- 15 % active chlorine)	Liquid	7681-52-9	>240	>240	>480	6	<0.6	0.05			
Sodium hypochlorite (5.25-6%)	Liquid	7681-52-9	>480	>480	>480	6	<0.025	0.025			
Sulfuric acid (18%)	Liquid	7664-93-9	>240	>240	>480	6	<0.05	0.05			
Sulfuric acid (30%)	Liquid	7664-93-9	>10	>240	>240	5	<0.05	0.05			
Sulfuric acid (50%)	Liquid	7664-93-9	imm	>30	>60	3	38	0.01			
Sulfuric acid dimethyl ester	Liquid	77-78-1	imm	imm	imm		>160	0.02			
Thiotepa (10 mg/ml)	Liquid	52-24-4	imm	imm	imm		na	0.001			
Vincristine sulfate (1 mg /ml)	Liquid	2068-78-2	>240	>240	>240	5	<0.001	0.001			
Vinorelbine (0.1 mg/ml)	Liquid	71486-22-1	>240	>240	>240	5	<0.0209	0.00209			

 $BTAct \ (Actual) \ Breakthrough \ time \ at \ MDPR \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ breakthrough \ time \ at \ 0.1 \ \mu g/cm^2/min \ [mins] \ | \ BT0.1 \ Normalized \ time \ time$

 $BT1.0\ Normalized\ breakthrough\ time\ at\ 1.0\ \mu g/cm^2/min\ [mins]\ |\ EN\ Classification\ according\ to\ EN\ 14325\ |\ SSPR\ Steady\ state\ permeation\ rate\ [\mu g/cm^2/min]\ |\ PN\ Classification\ according\ to\ EN\ 14325\ |\ SSPR\ Steady\ state\ permeation\ rate\ [\mu g/cm^2/min]\ |\ PN\ Classification\ according\ to\ EN\ 14325\ |\ SSPR\ Steady\ state\ permeation\ rate\ [\mu g/cm^2/min]\ |\ PN\ Classification\ according\ to\ EN\ 14325\ |\ PN\ Classification\ according\ to\ EN\ Classification\$

 $MDPR\ Minimum\ detectable\ permeation\ rate\ [\mu g/cm^2/min]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ 480\ mins\ [\mu g/cm^2]\ |\ CUM480\ Cumulative\ permeation\ mass\ after\ af$

Time150 Time to reach cumulative permeation mass of 150 µg/cm² [mins] | ISO Classification according to ISO 16602 |

TECHNICAL DATA SHEET



CAS Chemical abstracts service registry number | min Minute | > Larger than | < Smaller than | imm Immediate (< 10 min) | nm Not tested | sat Saturated solution | N/A Not Applicable | na Not attained | GPR grade General purpose reagent grade | * Based on lowest single value | 8 Actual breakthrough time; normalized breakthrough time is not available | DOT5 Degradation after 5 min | DOT30 Degradation after 30 min | DOT60 Degradation after 60 min | DOT240 Degradation after 240 min | BT1383 Normalized breakthrough time at 0.1 µg/cm²/min [mins] acc. ASTM F1383 |

Important Note

The permeation data published have been generated for DuPont by independent accredited testing laboratories according to the test method applicable at that time (EN ISO 6529 (method A and B), ASTM F739, ASTM F1383, ASTM D6978, EN369, EN 374-3) The data is typically the average of three fabrics samples tested. All chemicals have been tested at an assay of greater than 95 (w/w) % unless otherwise stated. The tests were performed between 20 °C and 27 °C and at environmental pressure unless otherwise stated. A different temperature may have significant influence on the breakthrough time. Permeation typically increases with temperature. Cumulative permeation data have been measured or have been calculated based on minimum detectable permeation rate. Cytostatic drugs testing has been performed at a test temperature of 27°C according to ASTM D6978 or ISO 6529 with the additional requirement of reporting a normalized breakthrough time at 0.01 µg/cm²/min. Chemical warfare agents (Lewisite, Sarin, Soman, Mustard, Tabun and VX Nerve Agent) have been tested according to MIL-STD-282 at 22°C or according to FINABEL 0.7 at 37°C. Permeation data for Tyvek® is applicable to white Tyvek® 500 and Tyvek® 600 only and is not applicable for other Tyvek® styles or colours. Permeation data are usually measured for single chemicals. The permeation characteristics of mixtures can often deviate considerably from the behaviour of the individual chemicals. The permeation data for gloves published have been generated according to ASTM F739 and to ASTM F1383. The degradation data for gloves published have been generated based on a gravimetric method. This degradation testing exposes one side of the glove material to the test chemical for four hours. The percent weight change after exposure is measured at four time intervals: 5, 30, 60 and 240 minutes.

Degradation Ratings:

- E: EXCELLENT (0-10% Weight Change)
- G: GOOD (11-20% Weight Change)
- F: FAIR (21-30% Weight Change)
- P: POOR (31-50% Weight Change)
- NR: NOT RECOMMENDED (Above 50% Weight Change)
- NT: NOT TESTED

Degradation is the physical change in a material after chemical exposure. Typical observable effects may be swelling, wrinkling, deterioration, or delamination. Strength loss may also occur.

Please use the permeation data provided as a part of the risk assessment to assist with the selection of a protective fabric, garment, glove or accessory suitable for your application. Breakthrough time is not the same as safe wear time. Breakthrough times are indicative of the barrier performance, but results can vary between the test methods and laboratories. Breakthrough time alone is insufficient to determine how long a garment may be worn once the garment has been contaminated. Safe user wear time may be longer orshorter than the breakthrough time depending on the permeation behaviour of the substance, the toxicity of the substance, working conditions and the exposure conditions (e.g. temperature, pressure, concentration, physical state).

Latest Update Permeation Data: 10/24/2022

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.

WARNING

The garment does not protect against ionizing radiation.

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This garment and/or fabric are not flame resistant and should not be used around heat, open flame, sparks or in potentially flammable environments.





DuPont™ SafeSPEC™ - We're here to help

Our powerful web-based tool can assist you with finding the appropriate DuPont garments for chemical, controlled environment, thermal and mechanical hazards.





DuPont Personal Protection SafeSPEC™

in. DuPont Personal Protection



DuPont Personal Protection

CREATED ON: NOVEMBER 21, 2022

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