

DuPont™ Tyvek® 500 Accessory , TYPOS0SWH00



Technical Data Sheet

DuPont Tyvek® 500 Shoe cover model POS0. Stitched internal seams. Elastication. White.

Certifications

- Certified according to Regulation (EU) 2016/425
- Partial body chemical protective clothing, Category III, Type PB [6-B]
- EN 14126 (barrier to infective agents)
- Antistatic treatment (EN 1149-1) - on both sides; see footnotes

Packaging(Quantity/Box)

400 per box, bulk packed.

| Product Size | Article Number | Additional info |
|--------------|----------------|-----------------|
| 00 | D13395783 | One Size |

Reference Number: TYPOS0SWH00

PHYSICAL PROPERTIES

| Property | Test Method | Result | EN Class |
|--|----------------------|-------------------------------------|---------------------|
| Abrasion Resistance ⁷ | EN 530 Method 2 | >100 cycles | 2 of 6 ¹ |
| Basis Weight | DIN EN ISO 536 | 41.5 g/m ² | N/A |
| Colour | N/A | White | N/A |
| Exposure to high Temperature | N/A | Melting point ~135 °C | N/A |
| Exposure to low Temperature | N/A | Flexibility retained down to -73 °C | N/A |
| Flex Cracking Resistance ⁷ | EN ISO 7854 Method B | >100000 cycles | 6 of 6 ¹ |
| Flex Cracking Resistance at -30°C | EN ISO 7854 Method B | >4000 cycles | N/A |
| Puncture Resistance | EN 863 | >10 N | 2 of 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 | >30 N | 1 of 6 ¹ |
| Tensile Strength (XD) | DIN EN ISO 13934-1 | >30 N | 1 of 6 ¹ |
| Thickness | DIN EN ISO 534 | 140 µm | N/A |
| Trapezoidal Tear Resistance (MD) | EN ISO 9073-4 | >10 N | 1 of 6 ¹ |
| Trapezoidal Tear Resistance (XD) | EN ISO 9073-4 | >10 N | 1 of 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 | Result | EN Class |
|-------------------------|----------------|-----------------------|---------------------|
| Seam Strength | EN ISO 13935-2 | >50 N | 2 of 6 ¹ |
| Shelf Life ⁷ | N/A | 10 years ⁶ | 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

| Property | Test Method | Result | EN Class |
|----------------------------------|--------------------|---|----------|
| Air Permeability (Gurley method) | ISO 5636-5 | < 45 s | N/A |
| Air Permeability (Gurley method) | ISO 5636-5 | Yes | N/A |
| Thermal Resistance, Rct | EN 31092/ISO 11092 | 16.3*10 ⁻³ m ² *K/W | N/A |
| Thermal Resistance, clo value | EN 31092/ISO 11092 | 0.105 clo | N/A |
| Water Vapour Resistance, Ret | EN 31092/ISO 11092 | 11.3 m ² *Pa/W | N/A |

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

PENETRATION AND REPELLENCY

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

1 According to EN 14325 > Larger than < Smaller than

BIOLOGICAL BARRIER

| Property | Test Method | Result | EN Class |
|---|-----------------------|-------------------|--------------------------------|
| Resistance to Penetration by Biologically Contaminated Aerosols | ISO/DIS 22611 | Pass | 1 of 3 ² |
| Resistance to Penetration by Blood and Body Fluids using Synthetic Blood | ISO 16603 | Pass | 3 of 6 ² |
| Resistance to Penetration by Blood-borne Pathogens using Bacteriophage Phi-X174 | ISO 16604 Procedure C | No classification | No classification ² |
| Resistance to Penetration by Contaminated Liquids | EN ISO 22610 | Pass | 1 of 6 ² |
| Resistance to Penetration by Contaminated Solid Particles | ISO 22612 | Pass | 1 of 3 ² |

2 According to EN 14126 > Larger than < Smaller than

CLEANILESS

| Property | Test Method | Result | EN Class |
|---------------------------------|-------------|---|----------|
| 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® / Back > Larger than < Smaller than N/A Not Applicable STD DEV Standard Deviation

Permeation Data for Tyvek® 500 Accessory

| Hazard / Chemical Name | Physical State | CAS | BT Act | BT 0.1 | BT 1.0 | EN | SSPR | MDPR | Cum Time ISO 480 | 150 |
|---|----------------|-------------|--------|--------|--------|----|---------|--------|------------------|-----|
| 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%) | Liquid | 1336-21-6 | imm | imm | imm | | 16.7 | 0.014 | | |
| Carboplatin (10 mg/ml) | Liquid | 441575-94-4 | >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%) | 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 | >480 | 6 | 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 | | |
| 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 | >240 | >240 | >240 | 5 | <0.009 | 0.009 | | |
| Irinotecan (20 mg/ml) | Liquid | 100286-90-6 | imm | >240 | >240 | 5 | <0.1 | 0.0028 | | |
| Mercuric II chloride (sat) | Liquid | 7487-94-7 | >480 | >480 | >480 | 6 | <0.01 | 0.01 | | |
| 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 | | |

BT Act (Actual) Breakthrough time at MDPR [mins] BT 0.1 Normalized breakthrough time at 0.1 µg/cm²/min [mins] BT 1.0 Normalized breakthrough time at 1.0 µg/cm²/min [mins] EN Classification according to EN 14325
 SSPR Steady state permeation rate [µg/cm²/min] MDPR Minimum detectable permeation rate [µg/cm²/min] CUM 480 Cumulative permeation mass after 480 mins [µg/cm²] Time 150 Time to reach cumulative permeation mass of 150 µg/cm² [mins] ISO Classification according to ISO 16602 CAS Chemical abstracts service registry number mins Minutes > Larger than < Smaller than imm Immediate (< 4 min) nm Not tested
 sat Saturated solution N/A Not Applicable * Based on lowest single value na Not attained 8 Actual breakthrough time; normalized breakthrough time is not available

Permeation Data for Tyvek® 500 Accessory

| Hazard / Chemical Name | Physical State | CAS | BT Act | BT 0.1 | BT 1.0 | EN | SSPR | MDPR | Cum Time ISO 480 150 |
|--|----------------|------------|--------|--------|--------|----|---------|---------|-------------------------|
| Nitric acid (10%) | Liquid | 7697-37-2 | >120 | >240 | >480 | 6 | <0.005 | 0.005 | |
| 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 | >480 | >480 | >480 | 6 | <0.005 | 0.005 | |
| 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 | >480 | 6 | 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 | 6 | <0.001 | 0.001 | |
| Vinorelbine (0.1 mg/ml) | Liquid | 71486-22-1 | >240 | >240 | >240 | 6 | <0.0209 | 0.00209 | |

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 sat Saturated solution N/A Not Applicable * Based on lowest single value na Not attained 8 Actual breakthrough time; normalized breakthrough time is not available

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 (EN369, ASTM F739, EN 374-3, EN ISO 6529 (method A and B) or ASTM D6978)

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 at room temperature and 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 steady state 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/ 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.

Please use the permeation data provided as a part of the risk assessment to assist with the selection of a protective fabric, garment 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 or shorter 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: 30/05/2018

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, EN 374-3, EN ISO 6529 (method A and B) or ASTM D6978)

The data is typically the average of three fabrics samples tested.

All information provided is based on our current knowledge and experience at the date of 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.

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 or shorter 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: 15/03/2019

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For further product information, literature and as well as assistance in locating a local supplier, please visit:

www.safespec.dupont.co.uk

The footnotes can be found on the SafeSPEC® website.

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DuPont Personal Protection

DuPont de Nemours (Luxembourg) S.à.r.l.

L-2984 Luxembourg

Tel.: +800 3666 6666 (international toll-free)

Fax: +352 3666 5071

E-mail: personal.protection@lux.dupont.com