SL125T WH

# DuPont™ Tychem® 4000

DuPont™ Tychem® 4000 Coverall. Collar. Elastic Wrists and Ankles. Storm Flap with Adhesive Closure. Taped Seams. Semi-auto locking slider zipper pull. White.

| Name | Description |
|---|---|
| Full Part Number | SL125TWHxx0006yy (xx=size;yy=option code) |
| Fabric/Materials | TYCHEM® 4000 |
| Design | Coverall w/ Elastic Wrists and Ankles |
| Seam | Taped |
| Color | White |
| Quantity/Box | 6 per case |
| Sizes | MD, LG, XL, 2X, 3X, 4X, 5X |
| Option Codes | 00 |

## FEATURES & PRODUCT DETAILS

DuPont™ Tychem® 4000 delivers effective protection against a range of chemical environments. Tychem® 4000, utilizes Saranex™ 23-P film laminated to Tyvek® fabric to provide a rugged and durable fabric that resists abrasion. Tychem® 4000 fabric provides at least 30 minutes of protection against >124 chemical challenges. Typical applications: chemical mixing, hazardous remediation, emergency medical response, paint spraying, and nuclear environments.

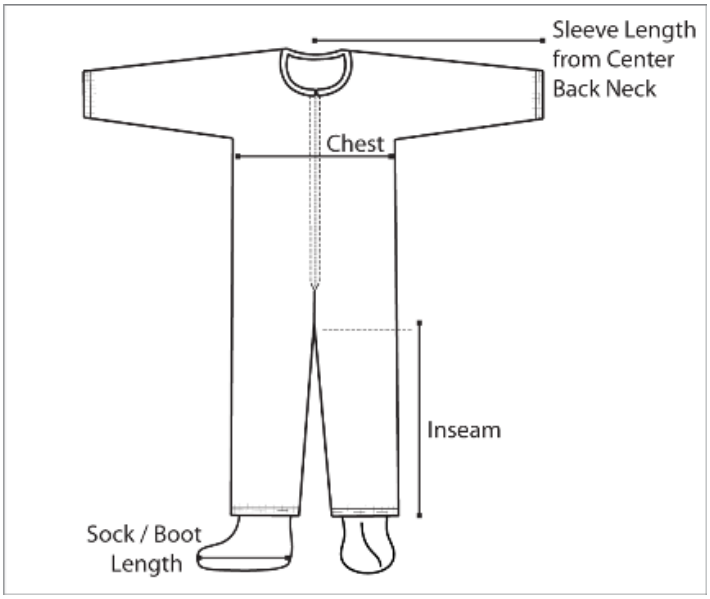
- Zipper features a semi-automatic locking slider allowing the puller to stay down and in a locked position
- Taped seams provide strong chemical resistance against heavy liquid splashes. A sewn seam is covered with a strip of compatible chemical-resistant material through heat sealing.
- Laydown collar
- Storm flap covers zipper which can be sealed by the wearer with adhesive strip to prevent intrusion at zipper
- Elastic opening for tighter fit at wrist
- Elastic opening for tighter fit at ankle
- Manufactured under specifications that do not contain natural rubber latex.
- Meets the U.S. industry requirements for blood (ASTM F1670) and viral penetration (ASTM F1671) protecting against several bloodborne pathogen exposure risks.

## AVAILABLE OPTIONS

| Option Code | Description | Sizes | Part Number |
|---|---|---|---|
| 00 | Standard | MD,LG,XL,2X,3X,4X,5X | SL125TWHxx000600 |

## SPECIFICATIONS

- The garment shall be constructed of DuPont™ Tychem® 4000 -- a DuPont™ Tyvek® protective fabric laminated with a chemical resistant Dow Saranex™ 23-P film.
- The garment shall be white in color.
- The garment shall have taped seams.
- The tape used to cover the seams shall be a film composite with equal to or greater chemical resistance than the base fabric.
- The garment shall be a coverall design.
- The garment shall have a collar.
- The garment shall have a front zipper closure.
- The zipper shall be covered with a storm flap with adhesive closure.
- The garment shall have elastic wrists.
- The garment shall have elastic ankles.



FINISHED DIMENSIONS

| Size | Sleeve Length | Chest Width | Inseam | Fits Chest | Fits Height |
|---|---|---|---|---|---|
| MD | 33 3/4 | 24 1/4 | 27 1/2 | 35 1/4 - 38 3/4 | 5'3" - 5'7" |
| LG | 35 | 25 3/4 | 28 1/2 | 38 1/4 - 41 3/4 | 5'5" - 5'9" |
| XL | 36 1/2 | 27 1/4 | 29 | 41 1/4 - 44 3/4 | 5'8" - 6'2" |
| 2X | 38 1/4 | 28 3/4 | 30 | 44 1/4 - 47 3/4 | 6'0" - 6'4" |
| 3X | 38 1/2 | 30 1/4 | 31 | 47 1/4 - 50 3/4 | 6'2" - 6'4" |
| 4X | 39 1/2 | 31 3/4 | 32 | 50 1/4 - 53 3/4 | 6'4" - 6'7" |
| 5X | 40 1/2 | 33 1/2 | 33 | 53 3/4 - 57 1/4 | 6'7" - 6'10" |

## 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.

## 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 |
|---|---|---|
| Thickness (PPSH-249) | ASTM D1777 | 12 mils |
| Basis Weight | ASTM D3776 | 3.6 $oz/yd^2$ |
| Burst Strength - Mullen. | ASTM D3786 | 71 psi |
| Breaking Strength - Grab (MD). | ASTM D5034 | 44 $lb_f$ |
| Breaking Strength - Grab (CD) | ASTM D5034 | 48 $lb_f$ |
| Wearing Apparel Flammability | 16 CFR 1610 | Class 1 |

## CHEMICAL RESISTANCE

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|---|---|---|
| 2-(2-Ethoxyethoxy) ethanol | 111-90-0 | Liquid | >480 |
| 2-Methyl-4-isothiazolin-3-one (20%) | 2682-20-4 | Liquid | >480 |
| Acetic acid (>95%) | 64-19-7 | Liquid | >480 |
| Acetic acid 2 ethoxy ethyl ester | 111-15-9 | Liquid | 116*/238 |
| Acetic acid 2 methoxy ethyl ester | 110-49-6 | Liquid | >480 |
| Acetic acid ethenyl ester | 108-05-4 | Liquid | 24 |
| Acetic acid ethyl ester | 141-78-6 | Liquid | imm |
| Acetic anhydride | 108-24-7 | Liquid | 12*/48 |
| Acetic chloride | 75-36-5 | Liquid | 39*/63 |
| Acetone | 67-64-1 | Liquid | 13 |
| Acetonitrile | 75-05-8 | Liquid | 60 |
| Acetyl chloride | 75-36-5 | Liquid | 39*/63 |
| Acroleic acid | 79-10-7 | Liquid | >480 |
| Acrolein (90%) | 107-02-8 | Liquid | 24 |
| Acrylamide (50%) | 79-06-1 | Liquid | >480 |
| Acrylic acid | 79-10-7 | Liquid | >480 |
| Acrylic acid n-butyl ester | 141-32-2 | Liquid | >480 |
| Acrylicamide (50%) | 79-06-1 | Liquid | >480 |
| Acrylonitrile | 107-13-1 | Liquid | 36*/48 |
| Acryloyl Chloride | 814-68-6 | Liquid | imm |
| Allyl alcohol | 107-18-6 | Liquid | >480 |
| Amino 3,4-dichlorobenzene, 1- (70 °C, molten) | 95-76-1 | Liquid | imm |
| Amino benzene | 62-53-3 | Liquid | >480 |
| Amino diphenyl, 4- (1 mg/ml in Methanol) | 92-67-1 | Liquid | >480 |
| Amino ethylethanolamine | 111-41-1 | Liquid | imm |
| Amino ethylethanolamine (60%) | 111-41-1 | Liquid | >480 |
| Amino ethylpiperazine | 140-31-8 | Liquid | >480 |
| Amino pyridine, 2- (sat) | 504-29-0 | Liquid | >480 |
| Ammonia (gaseous) | 7664-41-7 | Vapor | 26 |
| Ammonium hydroxide (2-3% in Householdcleaner) | 1336-21-6 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Aniline | 62-53-3 | Liquid | >480 |
| Antimony pentachloride | 7647-18-9 | Liquid | >480 |
| Benzenamine | 62-53-3 | Liquid | >480 |
| Benzene | 71-43-2 | Liquid | imm |
| Benzisothiazol 1,2- (20%) | 2634-33-5 | Liquid | >480 |
| Benzyl alcohol | 100-51-6 | Liquid | >480 |
| Bis (4-(2,3-epoxypropoxy)phenyl)propane (80%) | 1675-54-3 | Liquid | >480 |
| Bis phenol A diglycidyl ether (80%) | 1675-54-3 | Liquid | >480 |
| Black Liquor (mix) | mix | Liquid | >480 |
| Bromo methane | 74-83-9 | Vapor | >480 |
| Butadiene, 1,3- (gaseous) | 106-99-0 | Vapor | >480 |
| Butanal, n- | 123-72-8 | Liquid | 41 |
| Butanol, 1- | 71-36-3 | Liquid | >480 |
| Butanol, n- | 71-36-3 | Liquid | >480 |
| Butanone | 78-93-3 | Liquid | 18 |
| Butanone oxime, 2- | 96-29-7 | Liquid | >480 |
| Butenal, 2- | 123-73-9 | Liquid | 34 |
| Butoxy ethanol, 2- | 111-76-2 | Liquid | >480 |
| Butyl acrylate, n- | 141-32-2 | Liquid | >480 |
| Butyl alcohol, n- | 71-36-3 | Liquid | >480 |
| Butyraldehyde, n- | 123-72-8 | Liquid | 41 |
| Carbon disulfide | 75-15-0 | Liquid | imm |
| Carburant n° 2 | 68476-30-2 | Liquid | >480 |
| Caustic ammonia (2-3% in Householdcleaner) | 1336-21-6 | Liquid | >480 |
| Caustic ammonia (32%) | 1336-21-6 | Liquid | 55 |
| Caustic soda (50%) | 1310-73-2 | Liquid | >480 |
| Cellosolve acetate | 110-80-5 | Liquid | >480 |
| Chemguard S-764P14A | mix | Liquid | >480 |
| Chemidize 727 ND (mix) | mix | Liquid | >480 |
| Chlorine (gaseous) | 7782-50-5 | Vapor | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Chloro 1-methylbenzene, 2- | 95-49-8 | Liquid | 13 |
| Chloro 2,3-epoxy propane, 1- | 106-89-8 | Liquid | 15 |
| Chloro acetic acid (80%) | 79-11-8 | Liquid | >480 |
| Chloro acetone (95%) | 78-95-5 | Liquid | 258 |
| Chloro acetyl chloride | 79-04-9 | Liquid | 120 |
| Chloro aniline, p- (70 °C, molten) | 106-47-8 | Liquid | imm |
| Chloro benzenamine, 4- (70 °C, molten) | 106-47-8 | Liquid | imm |
| Chloro ethene | 75-01-4 | Vapor | >480 |
| Chloro form | 67-66-3 | Liquid | imm |
| Chloro propan-2-one, 1- (95%) | 78-95-5 | Liquid | 258 |
| Chloro toluene, o- | 95-49-8 | Liquid | 13 |
| Chlorsulfonic acid | 7790-94-5 | Liquid | >480 |
| Chromic acid (CrO3) (44.9%) | 1333-82-0 | Liquid | >480 |
| Cresol o- | 95-48-7 | Liquid | >480 |
| Cresols, mixed isomers | 1319-77-3 | Liquid | 100 |
| Cresylic acid | 1319-77-3 | Liquid | 100 |
| Croton aldehyde | 123-73-9 | Liquid | 34 |
| Crude oil | 8002-05-9 | Liquid | >480 |
| Crude oil, California | 8002-05-9 | Liquid | >480 |
| Cyanoethylene | 107-13-1 | Liquid | 36*/48 |
| Cyanomethane | 75-05-8 | Liquid | 60 |
| Cyclo hexanone | 108-94-1 | Liquid | 136 |
| Cyclo hexyl isocanyte | 3173-53-3 | Liquid | 36*/54 |
| Diaminoethane, 1,2- | 107-15-3 | Liquid | >480 |
| Dichlorbenzen, 1,2- | 95-50-1 | Liquid | 76 |
| Dichlorbenzen, 1,3- | 541-73-1 | Liquid | 45 |
| Dichlorbenzen, 1,4- (50% in Ethanol) | 106-46-7 | Liquid | >480 |
| Dichlorethane, 1.2.- | 107-06-2 | Liquid | imm |
| Dichloro -4,4'-methylenedianiline, 2,2'- (sat in Methanol) | 101-14-4 | Liquid | >480 |
| Dichloro aniline, 3,4- (70 °C, molten) | 95-76-1 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Dichloro methane | 75-09-2 | Liquid | imm |
| Diesel Fuel Grade D-2 | mix | Liquid | >480 |
| Diethyl amine | 109-89-7 | Liquid | 15 |
| Diethyl aniline crude | 91-66-7 | Liquid | >480 |
| Diethyl benzene (95%) | 25340-17-4 | Liquid | 31 |
| Diethyl ethanamine, N,N- | 121-44-8 | Liquid | 12*/22 |
| Diethyl ether | 60-29-7 | Liquid | imm |
| Diethyl m-toluidine, N,N- | 91-67-8 | Liquid | >480 |
| Diethylene imide oxide | 110-91-8 | Liquid | 158 |
| Diethylene triamine | 111-40-0 | Liquid | imm*/321 |
| Dimethyl acetamide, N,N- | 127-19-5 | Liquid | 96 |
| Dimethyl dichlorosilane | 75-78-5 | Liquid | 46 |
| Dimethyl formamide, N,N- | 68-12-2 | Liquid | 90 |
| Dimethyl hydrazine, N,N- | 57-14-7 | Liquid | 13 |
| Dimethyl ketal | 67-64-1 | Liquid | 13 |
| Dimethyl ketone | 67-64-1 | Liquid | 13 |
| Dimethyl maleate | 624-48-6 | Liquid | >480 |
| Dimethyl sulfate | 77-78-1 | Liquid | >480 |
| Diphenyl methane diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Disodium sulfide (60% (slurry)) | 1313-82-2 | Liquid | >480 |
| Epichlorohydrin | 106-89-8 | Liquid | 15 |
| Epoxy ethane (gaseous) | 75-21-8 | Vapor | imm |
| Ethane 1,2-diol | 107-21-1 | Liquid | >480 |
| Ethane diol dipropanoate, 1,2- | 123-73-9 | Liquid | 34 |
| Ethane nitrile | 75-05-8 | Liquid | 60 |
| Ethane thiol | 75-08-1 | Liquid | imm |
| Ethanol | 64-17-5 | Liquid | >480 |
| Ethanoyl chloride | 75-36-5 | Liquid | 39*/63 |
| Ethoxy ethanol, 2- | 110-80-5 | Liquid | >480 |
| Ethoxy ethylacetat | 111-15-9 | Liquid | 116*/238 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Ethyl Cellosolve® | 110-80-5 | Liquid | >480 |
| Ethyl acetate | 141-78-6 | Liquid | imm |
| Ethyl alcohol | 64-17-5 | Liquid | >480 |
| Ethyl benzene | 100-41-4 | Liquid | imm |
| Ethyl ethanamine, N- | 109-89-7 | Liquid | 15 |
| Ethyl ether | 60-29-7 | Liquid | imm |
| Ethyl glycol acetate | 111-15-9 | Liquid | 116*/238 |
| Ethyl mercaptan | 75-08-1 | Liquid | imm |
| Ethyl nitrile | 75-05-8 | Liquid | 60 |
| Ethylene carboxylic acid | 79-10-7 | Liquid | >480 |
| Ethylene diamine | 107-15-3 | Liquid | >480 |
| Ethylene dichloride | 107-06-2 | Liquid | imm |
| Ethylene glycol | 107-21-1 | Liquid | >480 |
| Ethylene glycol mono ethyl ether acetate | 111-15-9 | Liquid | 116*/238 |
| Ethylene glycol monobutyl ether | 111-76-2 | Liquid | >480 |
| Ethylene glycol monoethyl ether | 110-80-5 | Liquid | >480 |
| Ethylene glycol monomethyl ether | 109-86-4 | Liquid | >480 |
| Ethylene glycol monomethyl ether acetate | 110-49-6 | Liquid | >480 |
| Ethylene oxide (gaseous) | 75-21-8 | Vapor | imm |
| Ethylene tetrachloride | 127-18-4 | Liquid | imm |
| Ethylene trichloride | 79-01-6 | Liquid | imm |
| Ferric (III) chloride (50%) | 7705-08-0 | Liquid | >480 |
| Fluorobenzene | 462-06-6 | Liquid | imm |
| Fluoroboric acid (48-50%) | 16872-11-0 | Liquid | >480 |
| Fluorosilicic acid (33-35%) | 16961-83-4 | Liquid | >480 |
| Formaldehyde (37%) | 50-00-0 | Liquid | >480 |
| Formalin (37% (10-15% Methanol)) | 50-00-0 | Liquid | >480 |
| Formalin (37%) | 50-00-0 | Liquid | >480 |
| Formic acid (88%) | 64-18-6 | Liquid | >480 |
| Fuel-oil no 2 | 68476-30-2 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Furaldehyde, 2- | 98-01-1 | Liquid | 198*/227 |
| Furfural | 98-01-1 | Liquid | 198*/227 |
| Gasoline, unleaded | 86290-81-5 | Liquid | imm |
| Gasoline, unleaded E10 (87 Octane) | 308066-70-8 | Liquid | imm |
| Glutaral (50%) | 111-30-8 | Liquid | >480 |
| Glutaraldehyde (50%) | 111-30-8 | Liquid | >480 |
| Glycol alcohol | 107-21-1 | Liquid | >480 |
| Green Liquor (mix) | mix | Liquid | >480 |
| Hexamethyl disilazane | 999-97-3 | Liquid | >480 |
| Hexamethyl disilazane, 1,1,1,3,3,3- | 999-97-3 | Liquid | >480 |
| Hexamethylene diamine (50 °C, molten) | 124-09-4 | Liquid | 80 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | imm |
| Hexanone | 108-94-1 | Liquid | 136 |
| Hydrazine | 302-01-2 | Liquid | >480 |
| Hydriodic acid (47%) | 10034-85-2 | Liquid | >480 |
| Hydrochloric acid (37%) | 7647-01-0 | Liquid | >480 |
| Hydrofluoric acid (48-51%) | 7664-39-3 | Liquid | >480 |
| Hydrofluoric acid (70%) | 7664-39-3 | Liquid | 143 |
| Hydrogen chloride (gaseous) | 7647-01-0 | Vapor | >480 |
| Hydrogen fluoride (20-27 °C, gaseous) | 7664-39-3 | Vapor | 93*/134 |
| Hydrogen peroxide (30%) | 7722-84-1 | Liquid | >480 |
| Hydroxy 2-nitrobenzene, 1- (70 °C, molten) | 88-75-5 | Liquid | imm |
| Hydroxy toluene | 100-51-6 | Liquid | >480 |
| Hydroxy toluene, o- | 95-48-7 | Liquid | >480 |
| Iodine | 7553-56-2 | Solid | >480 |
| Iodomethane | 74-88-4 | Liquid | imm |
| Isoamyl alcohol | 123-51-3 | Liquid | >480 |
| Isopropanol | 67-63-0 | Liquid | >480 |
| Isopropanol (70%) | 67-63-0 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Isopropyl alcohol | 67-63-0 | Liquid | >480 |
| Isopropyl alcohol (70%) | 67-63-0 | Liquid | >480 |
| Isopropylidenediphenol diglycidyl ether, 4,4'- (80%) | 1675-54-3 | Liquid | >480 |
| JP-4 Jet Fuel | 50815-00-4 | Liquid | imm |
| JP-8 Jet Fuel | 94114-58-6 | Liquid | 39*/67 |
| Kerosene | 8008-20-6 | Liquid | 69 |
| Ketone propane | 67-64-1 | Liquid | 13 |
| Lewisite (L), MIL-STD-282 (10 g/$m^2$) | 541-25-3 | Liquid | >360[8] |
| MEK | 78-93-3 | Liquid | 18 |
| Maleic anhydride (66 °C, molten) | 108-31-6 | Liquid | 13 |
| Mercuric II chloride (sat) | 7487-94-7 | Liquid | >480 |
| Mercury | 7439-97-6 | Liquid | >480 |
| Methanesulphonic acid (70%) | 75-75-2 | Liquid | >480 |
| Methanol | 67-56-1 | Liquid | >480 |
| Methoxy 2-methylpropane, 2- | 1634-04-4 | Liquid | >480 |
| Methoxy ethanol, 2 | 109-86-4 | Liquid | >480 |
| Methoxy ethylacetate, 2- | 110-49-6 | Liquid | >480 |
| Methyl 2-methyl-2-propenoate | 80-62-6 | Liquid | 23 |
| Methyl 2-pyrrolidon, N- | 872-50-4 | Liquid | 101 |
| Methyl Ethyl Ketone Peroxide (35%) | 1338-23-4 | Liquid | >480 |
| Methyl acetyl | 67-64-1 | Liquid | 13 |
| Methyl acrolein | 123-73-9 | Liquid | 34 |
| Methyl aniline, o- | 95-53-4 | Liquid | >480 |
| Methyl benzol | 108-88-3 | Liquid | imm |
| Methyl bromide | 74-83-9 | Vapor | >480 |
| Methyl butan-1-ol, 3- | 123-51-3 | Liquid | >480 |
| Methyl chloride (-70 °C, liquid) | 74-83-9 | Vapor | >480 |
| Methyl chloride (gaseous) | 74-87-3 | Vapor | >480 |
| Methyl cyanide | 75-05-8 | Liquid | 60 |
| Methyl ethyl ketone | 78-93-3 | Liquid | 18 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Methyl ethyl ketoxime | 96-29-7 | Liquid | >480 |
| Methyl iodide | 74-88-4 | Liquid | imm |
| Methyl isocyanate | 624-83-9 | Liquid | imm |
| Methyl ketone | 67-64-1 | Liquid | 13 |
| Methyl methacrylate | 80-62-6 | Liquid | 23 |
| Methyl phenols | 1319-77-3 | Liquid | 100 |
| Methyl salicylate | 119-36-8 | Liquid | >480 |
| Methyl tert-butyl ether | 1634-04-4 | Liquid | >480 |
| Methylen Isocyclohexylamine, 4,4- (50 °C, molten) | 1761-71-3 | Liquid | >480 |
| Methylene bis(2-Chloroaniline), 4,4- (sat in Methanol) | 101-14-4 | Liquid | >480 |
| Methylene chloride | 75-09-2 | Liquid | imm |
| Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Mineral oil | 8012-95-1 | Liquid | >480 |
| Mineral spirit | 64475-85-0 | Liquid | 190 |
| Morpholine | 110-91-8 | Liquid | 158 |
| Naphthalene (25% in Diethylene glycol dimethylether) | 91-20-3 | Liquid | 79 |
| Nitric acid (70%) | 7697-37-2 | Liquid | >480 |
| Nitro benzene | 98-95-3 | Liquid | 59 |
| Nitro phenol, o- (70 °C, molten) | 88-75-5 | Liquid | imm |
| Nitro toluene, 2- | 88-72-2 | Liquid | 95 |
| Nitrogen Dioxide (liquid) | 10102-44-0 | Liquid | >480 |
| Norflurane | 811-97-2 | Vapor | >480 |
| Oleum (20% free SO3) | 8014-95-7 | Liquid | >480 |
| Oleum (30% free SO3) | 8014-95-7 | Liquid | >480 |
| PCB 1254 (50% in Mineral Oil) | 11097-69-1 | Liquid | >480 |
| PCB 1254 (90%) | 11097-69-1 | Liquid | >480 |
| Pentachloroantimony | 7647-18-9 | Liquid | >480 |
| Pentanedial, 1,5- (50%) | 111-30-8 | Liquid | >480 |
| Peracetic Acid (32%) | 79-21-0 | Liquid | 272 |
| Phenethylene | 100-42-5 | Liquid | 16 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Phenol (45 °C, molten) | 108-95-2 | Liquid | 44 |
| Phenol (60 °C, molten) | 108-95-2 | Liquid | imm |
| Phenol (85%) | 108-95-2 | Liquid | >480 |
| Phenyl amine | 62-53-3 | Liquid | >480 |
| Phenyl ethane | 100-41-4 | Liquid | imm |
| Phenyl ethanol, 1- | 98-85-1 | Liquid | >480 |
| Phenyl glycidyl ether | 122-60-1 | Liquid | >480 |
| Phenyl trichlorosilane | 98-13-5 | Liquid | >480 |
| Phosphoric acid (85%) | 7664-38-2 | Liquid | >480 |
| Phosphorus trichloride | 7719-12-2 | Liquid | imm |
| Pimelic ketone | 108-94-1 | Liquid | 136 |
| Polymethylene polyphenyle isocyanate (p-MDI) | 9016-87-9 | Liquid | >480 |
| Potassium acetate (sat) | 127-08-2 | Liquid | >480 |
| Potassium chromate (sat) | 7789-00-6 | Liquid | >480 |
| Potassium hydroxide (45%) | 1310-58-3 | Liquid | >480 |
| Prop-2-en-1-al (90%) | 107-02-8 | Liquid | 24 |
| Propan -2-ol | 67-63-0 | Liquid | >480 |
| Propan -2-ol (70%) | 67-63-0 | Liquid | >480 |
| Propan -2-one | 67-64-1 | Liquid | 13 |
| Propen 1-ol, 2- | 107-18-6 | Liquid | >480 |
| Propenamide (50%) | 79-06-1 | Liquid | >480 |
| Propene acid | 79-10-7 | Liquid | >480 |
| Propenenitrile, 2- | 107-13-1 | Liquid | 36*/48 |
| Propenoic acid butyl ester, 2- | 141-32-2 | Liquid | >480 |
| Propenoic acid nitrile | 107-13-1 | Liquid | 36*/48 |
| Propyl bromide, n- | 106-94-5 | Liquid | 12 |
| Propylene aldehyde | 123-73-9 | Liquid | 34 |
| Pyridine | 110-86-1 | Liquid | 31 |
| Pyroacetic ether | 67-64-1 | Liquid | 13 |
| Sarin (GB), MIL-STD-282 (10 g/$m^2$) | 107-44-8 | Liquid | >480[8] |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Silicon tetrachloride | 10026-04-7 | Liquid | 35 |
| Skydrol 4D | mix | Liquid | >480 |
| Skydrol 5 | mix | Liquid | >480 |
| Skydrol PE-5 | mix | Liquid | >480 |
| Sodium bisulphite (38-40%) | 7631-90-5 | Liquid | >480 |
| Sodium cyanide (sat) | 143-33-9 | Liquid | >480 |
| Sodium fluoride (sat) | 7681-49-4 | Liquid | >480 |
| Sodium hydroxide (50%) | 1310-73-2 | Liquid | >480 |
| Sodium hypochlorite (15%) | 7681-52-9 | Liquid | >480 |
| Sodium metabisulphite (38%) | 7681-57-4 | Liquid | >480 |
| Spectracide® (50% Malathion, 44% Aromatic Solvent) | mix | Liquid | >480 |
| Spiritus | 64-17-5 | Liquid | >480 |
| Styrene | 100-42-5 | Liquid | 16 |
| Sulfur Mustard (HD), MIL-STD-282 (10 g/$m^2$) | 505-60-2 | Liquid | >480[8] |
| Sulfur dioxide | 7446-09-5 | Vapor | >480 |
| Sulfuric acid (>95%) | 7664-93-9 | Liquid | >480 |
| Sulfuric acid dimethyl ester | 77-78-1 | Liquid | >480 |
| Sulfuric acid fuming (20% free SO3) | 8014-95-7 | Liquid | >480 |
| Sulfuric acid fuming (30% free SO3) | 8014-95-7 | Liquid | >480 |
| Tetrachloro ethane, 1,1,2,2,- | 79-34-5 | Liquid | 25 |
| Tetrachloro ethylene, 1,1,2,2- | 127-18-4 | Liquid | imm |
| Tetraethyl ammonium hydroxide (35%) | 77-98-5 | Liquid | >480 |
| Tetraethylene pentamine | 112-57-2 | Liquid | >480 |
| Tetrafluoroethane, 1,1,1,2- | 811-97-2 | Vapor | >480 |
| Tetrahydrofuran | 109-99-9 | Liquid | imm |
| Tetramethyl ammonium hydroxide (25%) | 75-59-2 | Liquid | >480 |
| Thioalkohol | 75-08-1 | Liquid | imm |
| Titan(IV) chloride | 7550-45-0 | Liquid | imm |
| Titanium tetrachloride | 7550-45-0 | Liquid | imm |
| Toluene | 108-88-3 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|---|---|---|
| Toluene diisocyanate, 2,4- | 584-84-9 | Liquid | >480 |
| Toluene diisocyanate, 2,4- (80%) | 584-84-9 | Liquid | >480 |
| Toluidine, m- | 108-44-1 | Liquid | >480 |
| Toluidine, o- | 95-53-4 | Liquid | >480 |
| Trichlor vinylsilane | 75-94-5 | Liquid | 100 |
| Trichloro benzene, 1,2,4- | 120-82-1 | Liquid | 87 |
| Trichloro ethanol, 2,2,2- | 115-20-8 | Liquid | >480 |
| Trichloro ethylene | 79-01-6 | Liquid | imm |
| Trichloro methane | 67-66-3 | Liquid | imm |
| Trichloro phenylsilane | 98-13-5 | Liquid | >480 |
| Trichloro silane | 10025-78-2 | Liquid | 60 |
| Triethyl amine | 121-44-8 | Liquid | 12*/22 |
| Triethylentetramine (60%) | 112-24-3 | Liquid | >480 |
| Trifluoro acetic acid | 76-05-1 | Liquid | >480 |
| Trifluoro methansulfonic acid | 1493-13-6 | Liquid | >480 |
| Trimethyl phosphite | 121-45-9 | Liquid | 210 |
| VM & P Naphtha | 8030-30-6 | Liquid | imm |
| VX Nerve Agent, MIL-STD-282 (10 g/$m^2$) | 50782-69-9 | Liquid | >480[8] |
| Vinyl acetate | 108-05-4 | Liquid | 24 |
| Vinyl benzol | 100-42-5 | Liquid | 16 |
| Vinyl carbinol | 107-18-6 | Liquid | >480 |
| Vinyl chloride | 75-01-4 | Vapor | >480 |
| Vinyl cyanide | 107-13-1 | Liquid | 36*/48 |
| Vinyl ethylene (gaseous) | 106-99-0 | Vapor | >480 |
| Vinyl magnesium chloride (15% in Tetrahydrofuran) | 3536-96-7 | Liquid | imm |
| Vinyl pyridine, 4- | 100-43-6 | Liquid | 15 |
| White Liquor | mix | Liquid | >480 |

BT0.1 Normalized breakthrough time at 0.1 µg/cm²/min [mins] 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

**SPECIAL WARNINGS**

- *Serged and bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present.

Important Note:

- *CAUTION: This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of 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. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for informational use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. Please contact DuPont for specific data. If fabric becomes torn, abraded or punctured, or if seams or closures fail, or if attached gloves, visors, etc. are damaged, end user should discontinue use of garment to avoid potential exposure to chemical. Since conditions of use are outside our control, we make no warranties, express or implied, including, without limitation, no warranties of merchantability or fitness for a particular use 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 others covering any material or its use.

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