



C3275T TN

DuPont™ Tychem® 5000

DuPont™ Tychem® 5000 Sleeved Apron. Offers heavy-duty frontal protection against a wide variety of chemical hazards. Tan for discretionary purposes. Knee-length apron with attached sleeves features a neck opening with snap closure, elastic wrists, ties at waist, and taped seams. Suitable for chemical handling, hazmat, law enforcement, and domestic preparedness applications.

| Name | Description |
|------------------|---|
| Full Part Number | C3275TTNxx0006yy (xx=size;yy=option code) |
| Fabric/Materials | TYCHEM® 5000 |
| Design | Apron w/ Long Sleeves |
| Seam | Taped |
| Color | Tan |
| Quantity/Box | 6 per case |
| Sizes | SM, MD, LG, XL, 2X, 3X, 4X |
| Option Codes | 00 |

FEATURES & PRODUCT DETAILS

Tychem® 5000 fabric is composed of a multi-layer film barrier laminated to a durable 2.0 oz/yd² polypropylene substrate. Tychem® 5000 fabric is strong and durable for rigorous activities and rugged situations involving liquid splash and provides barrier to a broad range of chemicals. Typical Applications: chemical handling, petro-chemical, hazardous materials/waste clean-up, fire departments, industrial hazmat teams, utilities, and domestic preparedness. Commonly used in domestic preparedness for situations where the potential to exposure to chemicals exist.

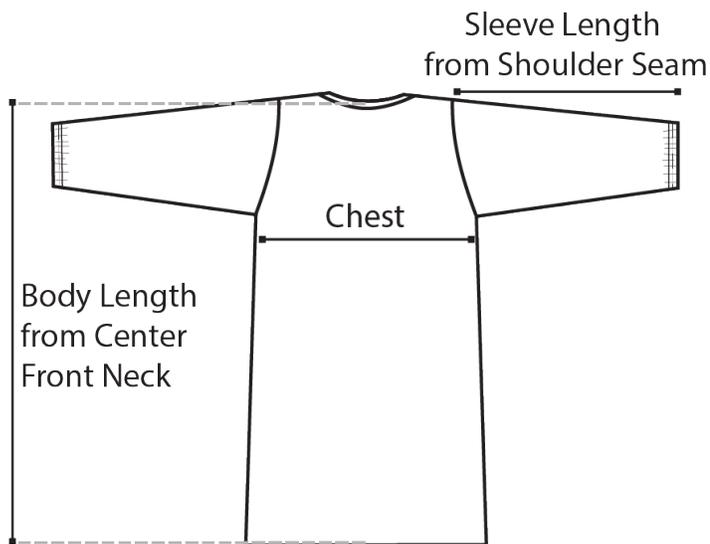
- Provides enhanced frontal protection
- Knee-length apron/gown design with attached sleeves
- Open back for wearer comfort.
- Bound seams around neck opening with snap closure
- Ties at waist
- Elastic opening for tighter fit at wrist
- Manufactured under specifications that do not contain natural rubber 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 | SM,MD,LG,XL,2X,3X,4X | C3275TTNxx000600 |

SPECIFICATIONS

- The garment shall be constructed of DuPont™ Tychem® 5000 -- a multi-layer composite barrier film laminated to a durable 2.0 oz/yd² polypropylene substrate.
- The garment shall be tan in color.
- The garment shall be a sleeved apron design.
- 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 have a neck loop with snaps.
- The garment shall have waist ties.
- The garment shall have elastic wrists.
- The garment shall be 44™ in length.



FINISHED DIMENSIONS

| Size | Sleeve Length | Chest Width | Fits Chest | Fits Height | Body Length |
|------|---------------|-------------|-----------------|-------------|-------------|
| SM | 31 | 26 1/2 | 39 3/4 - 43 1/4 | 5'0" - 5'7" | 43 |
| MD | 31 1/4 | 27 | 40 3/4 - 44 1/4 | 5'3" - 5'7" | 43 1/2 |
| LG | 31 1/2 | 27 1/2 | 41 3/4 - 45 1/4 | 5'5" - 5'9" | 44 1/4 |
| XL | 32 1/4 | 28 | 42 3/4 - 46 1/4 | 5'8" - 6'2" | 45 |
| 2X | 33 | 28 1/2 | 43 3/4 - 47 1/4 | 6'0" - 6'4" | 45 3/4 |
| 3X | 33 3/4 | 29 | 44 3/4 - 48 1/4 | 6'2" - 6'4" | 46 1/2 |
| 4X | 34 | 29 1/2 | 45 3/4 - 49 1/4 | 6'4" - 6'7" | 47 1/4 |

ADDITIONAL EQUIPMENT NEEDED

- Please read, understand and follow the Tychem® User Manual.
- This garment only provides partial body coverage. It may be worn in combination with other chemical resistant PPE as required based on the hazard assessment.
- 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 | ASTM D1777 | 18 mils |
| Basis Weight | ASTM D3776 | 4.4 oz/yd ² |
| Tear Resistance - Trap Tear (MD) | ASTM D5587 | 23 lb _f |
| Tear Resistance - Trap Tear (CD) | ASTM D5587 | 29 lb _f |
| Breaking Strength - Grab (MD) | ASTM D5034 | 68 lb _f |
| Breaking Strength - Grab (CD) | ASTM D5034 | 60 lb _f |
| Wearing Apparel Flammability | 16 CFR 1610 | Class 1 |

CHEMICAL RESISTANCE

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Acetaldehyde | 75-07-0 | Liquid | 19 |
| Acetic acid (>95%) | 64-19-7 | Liquid | 34 |
| Acetic acid 2 ethoxy ethyl ester | 111-15-9 | Liquid | >480 |
| Acetic acid 2 methoxy ethyl ester | 110-49-6 | Liquid | >480 |
| Acetic acid ethenyl ester | 108-05-4 | Liquid | >480 |
| Acetic acid ethyl ester | 141-78-6 | Liquid | >480 |
| Acetic acid pentyl ester | 628-63-7 | Liquid | >480 |
| Acetic anhydride | 108-24-7 | Liquid | >480 |
| Acetic chloride | 75-36-5 | Liquid | >480 |
| Acetone | 67-64-1 | Liquid | 462 |
| Acetonitrile | 75-05-8 | Liquid | imm |
| Acetyl chloride | 75-36-5 | Liquid | >480 |
| Acrolein | 107-02-8 | Liquid | 25*/178 |
| Acrylonitrile | 107-13-1 | Liquid | 31 |
| Acryloyl Chloride | 814-68-6 | Liquid | 55 |
| Adipic acid dinitrile | 111-69-3 | Liquid | >480 |
| Adipic acid nitrile | 111-69-3 | Liquid | >480 |
| Adiponitrile | 111-69-3 | Liquid | >480 |
| Allyl alcohol | 107-18-6 | Liquid | >480 |
| Allyl chloride | 107-05-1 | Liquid | 12 |
| Amino benzene | 62-53-3 | Liquid | 320 |
| Amino diphenyl, 4- (1 mg/ml in Methanol) | 92-67-1 | Liquid | >480 |
| Amino ethanol, 2- | 141-43-5 | Liquid | >480 |
| Amino ethylethanolamine | 111-41-1 | Liquid | >480 |
| Amino ethylethanolamine (60%) | 111-41-1 | Liquid | >480 |
| Amino ethylpiperazine | 140-31-8 | Liquid | >480 |
| Amino propane, 2- | 75-31-0 | Liquid | 15 |
| Ammonia (-33 °C, liquid) | 7664-41-7 | Liquid | 35 |
| Ammonia (-70 °C, liquid) | 7664-41-7 | Liquid | >480 |
| Ammonia (gaseous) | 7664-41-7 | Vapor | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|-------------------------------------|------------|--------|----------------------------|
| Ammonium chloride (sat) | 12125-02-9 | Liquid | >480 |
| Ammonium hydroxide (28% - 30%) | 1336-21-6 | Liquid | 89 |
| Amyl acetate, n- | 628-63-7 | Liquid | >480 |
| Amyl alcohol | 71-41-0 | Liquid | >480 |
| Amyl ester acetic acid | 628-63-7 | Liquid | >480 |
| Aniline | 62-53-3 | Liquid | 320 |
| Anthracene (sat in Toluene) | 120-12-7 | Liquid | >480 |
| Anthracin (sat in Toluene) | 120-12-7 | Liquid | >480 |
| Azolidine | 123-75-1 | Liquid | 342 |
| Benzenamine | 62-53-3 | Liquid | 320 |
| Benzene | 71-43-2 | Liquid | >480 |
| Benzene carbonyl chloride | 98-88-4 | Liquid | >480 |
| Benzene sulfone chloride | 98-09-9 | Liquid | >480 |
| Benzene sulfonyl chloride | 98-09-9 | Liquid | >480 |
| Benzo nitrile | 100-47-0 | Liquid | 450 |
| Benzo trichloride | 98-07-7 | Liquid | >480 |
| Benzoyl chloride | 98-88-4 | Liquid | >480 |
| Benzyl chloride | 100-44-7 | Liquid | >480 |
| Benzyl chloro formate | 501-53-1 | Liquid | >480 |
| Benzyl cyanide | 140-29-4 | Liquid | >480 |
| Black Liquor (mix) | mix | Liquid | >480 |
| Boron trifluoride dimethyl etherate | 353-42-4 | Liquid | >480 |
| Bromine | 7726-95-6 | Liquid | imm |
| Bromo 4-fluorobenzene, 1- | 460-00-4 | Liquid | >480 |
| Bromo fluorobenzene, 4- | 460-00-4 | Liquid | >480 |
| Butadiene, 1,3- (gaseous) | 106-99-0 | Vapor | >480 |
| Butanol, 1- | 71-36-3 | Liquid | >480 |
| Butanol, n- | 71-36-3 | Liquid | >480 |
| Butanone | 78-93-3 | Liquid | >480 |
| Butyl acetate, n- | 123-86-4 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|-------------------------------|------------|--------|----------------------------|
| Butyl alcohol, n- | 71-36-3 | Liquid | >480 |
| Butyl amine | 109-73-9 | Liquid | >480 |
| Butyl ether, n- | 142-96-1 | Liquid | 117 |
| Carbon disulfide | 75-15-0 | Liquid | imm |
| Carbon tetrachloride | 56-23-5 | Liquid | >480 |
| Caustic ammonia (28% - 30%) | 1336-21-6 | Liquid | 89 |
| Caustic soda (50%) | 1310-73-2 | Liquid | >480 |
| Cellosolve acetate | 110-80-5 | Liquid | >480 |
| Chlor allylene | 107-05-1 | Liquid | 12 |
| Chlordane (44%) | 57-74-9 | Liquid | >480 |
| Chlorine (-70 °C, liquid) | 7782-50-5 | Liquid | >480 |
| Chlorine (gaseous) | 7782-50-5 | Vapor | imm |
| Chlorine sulfide (80%) | 10545-99-0 | Liquid | imm |
| Chloro 1-methylbenzene, 2- | 95-49-8 | Liquid | >480 |
| Chloro 2,3-epoxy propane, 1- | 106-89-8 | Liquid | 36*/67 |
| Chloro acetic acid (80%) | 79-11-8 | Liquid | >480 |
| Chloro acetone (95%) | 78-95-5 | Liquid | >480 |
| Chloro acetyl chloride | 79-04-9 | Liquid | 77 |
| Chloro acrylonitrile, 2- | 920-37-6 | Liquid | 146 |
| Chloro benzene | 108-90-7 | Liquid | 63 |
| Chloro benzotrichloride, 4- | 5216-25-1 | Liquid | >480 |
| Chloro benzotrifluoride, 4- | 98-56-6 | Liquid | 460 |
| Chloro ethanol, 2- | 107-07-3 | Liquid | >480 |
| Chloro ethene | 75-01-4 | Vapor | >480 |
| Chloro prene, 3- | 107-05-1 | Liquid | 12 |
| Chloro propan-2-one, 1- (95%) | 78-95-5 | Liquid | >480 |
| Chloro toluene, alpha- | 100-44-7 | Liquid | >480 |
| Chloro toluene, o- | 95-49-8 | Liquid | >480 |
| Chloroform | 67-66-3 | Liquid | imm |
| Chlorsulfonic acid | 7790-94-5 | Liquid | 330 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--------------------------------------|------------|--------|----------------------------|
| Citric acid (50%) | 77-92-9 | Liquid | >480 |
| Cresol o- | 95-48-7 | Liquid | 198 |
| Cumene | 98-82-8 | Liquid | 364 |
| Cyanobenzene | 100-47-0 | Liquid | 450 |
| Cyanoethylene | 107-13-1 | Liquid | 31 |
| Cyanomethane | 75-05-8 | Liquid | imm |
| Cyclo hexane | 110-82-7 | Liquid | >480 |
| Cyclo octadiene | 1552-12-1 | Liquid | >480 |
| DEHP | 117-81-7 | Liquid | >480 |
| Diaminoethane, 1,2- | 107-15-3 | Liquid | >480 |
| Dibromo -3-chloropropane, 1,2- | 96-12-8 | Liquid | >480 |
| Dibromoethane, 1,2- | 106-93-4 | Liquid | >480 |
| Dichlorbenzen, 1,2- | 95-50-1 | Liquid | >480 |
| Dichlorbenzen, 1,3- | 541-73-1 | Liquid | >480 |
| Dichlorbenzen, 1,4- (50% in Ethanol) | 106-46-7 | Liquid | 131 |
| Dichlorethane, 1,2.- | 107-06-2 | Liquid | >480 |
| Dichloro ethyl ether | 111-44-4 | Liquid | >480 |
| Dichloro ethylene, 1,1- | 75-35-4 | Liquid | 170 |
| Dichloro methane | 75-09-2 | Liquid | imm |
| Dichloro propene, 1,3- (95%) | 542-75-6 | Liquid | imm |
| Dichloro propene, 2,3- | 78-88-6 | Liquid | 280 |
| Dicyanobutane, 1,4- | 111-69-3 | Liquid | >480 |
| Diesel fuel | 68334-30-5 | Liquid | 199 |
| Diethanolamine | 111-42-2 | Liquid | >480 |
| Diethyl amine | 109-89-7 | Liquid | >480 |
| Diethyl aniline, N,N- | 91-66-7 | Liquid | >480 |
| Diethyl ether | 60-29-7 | Liquid | >480 |
| Diethyl hexyl phthalate | 117-81-7 | Liquid | >480 |
| Diethyl sulfat | 64-67-5 | Liquid | >480 |
| Diethylene triamine | 111-40-0 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Diisopropylethylamine (DIPEA) | 7087-68-5 | Liquid | >480 |
| Dimethyl acetamide, N,N- | 127-19-5 | Liquid | >480 |
| Dimethyl amine | 124-40-3 | Vapor | >480 |
| Dimethyl aniline, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl formamide, N,N- | 68-12-2 | Liquid | >480 |
| Dimethyl ketal | 67-64-1 | Liquid | 462 |
| Dimethyl ketone | 67-64-1 | Liquid | 462 |
| Dimethyl maleate | 624-48-6 | Liquid | >480 |
| Dimethyl phenylamine, N,N- | 121-69-7 | Liquid | imm |
| Dimethyl sulfate | 77-78-1 | Liquid | >480 |
| Dimethyl sulfide | 75-18-3 | Liquid | >480 |
| Dimethyl sulfoxide | 67-68-5 | Liquid | >480 |
| Dioxane, 1,4- | 123-91-1 | Liquid | >480 |
| Diphenyl methane diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| Disodium sulfide (60% (slurry)) | 1313-82-2 | Liquid | >480 |
| Dowtherm Heat Transfer Fluid | mix | Liquid | >480 |
| Dytek® A | 15520-10-2 | Liquid | >480 |
| Epichlorohydrin | 106-89-8 | Liquid | 36*/67 |
| Epoxy ethane (11 °C, liquid) | 75-21-8 | Liquid | 18 |
| Epoxy ethane (gaseous) | 75-21-8 | Vapor | 12 |
| Epoxy propane, 1,2- | 75-56-9 | Liquid | 47 |
| Ethane dioic acid (sat) | 144-62-7 | Liquid | >480 |
| Ethane nitrile | 75-05-8 | Liquid | imm |
| Ethane thiol | 75-08-1 | Liquid | >480 |
| Ethanol | 64-17-5 | Liquid | >480 |
| Ethanol amine | 141-43-5 | Liquid | >480 |
| Ethanoyl chloride | 75-36-5 | Liquid | >480 |
| Ethoxy ethanol, 2- | 110-80-5 | Liquid | >480 |
| Ethoxy ethylacetat | 111-15-9 | Liquid | >480 |
| Ethyl Cellosolve® | 110-80-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|--|------------|--------|--------------------------|
| Ethyl acetate | 141-78-6 | Liquid | >480 |
| Ethyl alcohol | 64-17-5 | Liquid | >480 |
| Ethyl benzene | 100-41-4 | Liquid | >480 |
| Ethyl ethanamine, N- | 109-89-7 | Liquid | >480 |
| Ethyl ether | 60-29-7 | Liquid | >480 |
| Ethyl glycol acetate | 111-15-9 | Liquid | >480 |
| Ethyl mercaptan | 75-08-1 | Liquid | >480 |
| Ethyl nitrile | 75-05-8 | Liquid | imm |
| Ethylene chlorohydrin | 107-07-3 | Liquid | >480 |
| Ethylene diamine | 107-15-3 | Liquid | >480 |
| Ethylene dibromide | 106-93-4 | Liquid | >480 |
| Ethylene dichloride | 107-06-2 | Liquid | >480 |
| Ethylene glycol acrylate | 818-61-1 | Liquid | >480 |
| Ethylene glycol mono ethyl ether acetate | 111-15-9 | Liquid | >480 |
| Ethylene glycol monoethyl ether | 110-80-5 | Liquid | >480 |
| Ethylene glycol monomethyl ether | 109-86-4 | Liquid | 405 |
| Ethylene glycol monomethyl ether acetate | 110-49-6 | Liquid | >480 |
| Ethylene oxide (11 °C, liquid) | 75-21-8 | Liquid | 18 |
| Ethylene oxide (gaseous) | 75-21-8 | Vapor | 12 |
| Ethylene tetrachloride | 127-18-4 | Liquid | >480 |
| Ethylene trichloride | 79-01-6 | Liquid | >480 |
| Fluorobenzene | 462-06-6 | 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 (>95%) | 64-18-6 | Liquid | >480 |
| Furaldehyde, 2- | 98-01-1 | Liquid | >480 |
| Furfural | 98-01-1 | Liquid | >480 |
| Gasoline, unleaded | 86290-81-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|---|------------|--------|--------------------------|
| Glycol chlorohydrin | 107-07-3 | Liquid | >480 |
| Green Liquor (mix) | mix | Liquid | >480 |
| Heptane | 142-82-5 | Liquid | >480 |
| Hexamethylene diamine (50 °C, molten) | 124-09-4 | Liquid | 45 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | >480 |
| Hexone | 108-10-1 | Liquid | >480 |
| Hydriodic acid (55-57%) | 10034-85-2 | Liquid | >480 |
| Hydrobromic acid (48%) | 10035-10-6 | 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 | 126 |
| Hydrogen chloride (gaseous) | 7647-01-0 | Vapor | >480 |
| Hydrogen cyanide (27 °C, gaseous) | 74-90-8 | Vapor | 30 |
| Hydrogen fluoride (20-27 °C, gaseous) | 7664-39-3 | Vapor | 186 |
| Hydrogen peroxide (50%) | 7722-84-1 | Liquid | >480 |
| Hydrogen sulfide | 7783-06-4 | Vapor | imm |
| Hydroxy 1,2,3-propanetricarboxylic acid, 2- (50%) | 77-92-9 | Liquid | >480 |
| Hydroxy toluene, o- | 95-48-7 | Liquid | 198 |
| Hypophosphorus acid (50%) | 6303-21-5 | Liquid | >480 |
| Isobutyl methyl ketone | 108-10-1 | Liquid | >480 |
| Isopropanol | 67-63-0 | Liquid | >480 |
| Isopropyl alcohol | 67-63-0 | Liquid | >480 |
| Isopropyl amine | 75-31-0 | Liquid | 15 |
| Isopropyl benzene | 98-82-8 | Liquid | 364 |
| JP-8 Jet Fuel | 94114-58-6 | Liquid | >480 |
| Kerosene | 8008-20-6 | Liquid | >480 |
| Ketone propane | 67-64-1 | Liquid | 462 |
| Lewisite (L), MIL-STD-282 (10 g/m ²) | 541-25-3 | Liquid | 120 ^b |
| Limonene d- | 5989-27-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| MEK | 78-93-3 | Liquid | >480 |
| Mercapto acetic acid | 68-11-1 | Liquid | >480 |
| Mercury | 7439-97-6 | Liquid | >480 |
| Methacrylic acid | 79-41-4 | Liquid | 81 |
| Methanethiol | 74-93-1 | Vapor | >480 |
| Methanol | 67-56-1 | Liquid | imm |
| Methoxy 2-methylpropane, 2- | 1634-04-4 | Liquid | >480 |
| Methoxy ethanol, 2 | 109-86-4 | Liquid | 405 |
| Methoxy ethylacetate, 2- | 110-49-6 | Liquid | >480 |
| Methyl 4-isopropenyl-1-cyclohexene, 1- | 5989-27-5 | Liquid | >480 |
| Methyl Ethyl Ketone Peroxide (35%) | 1338-23-4 | Liquid | >480 |
| Methyl acetyl | 67-64-1 | Liquid | 462 |
| Methyl amine (40%) | 74-89-5 | Liquid | 140 |
| Methyl benzol | 108-88-3 | Liquid | >480 |
| Methyl chloride (gaseous) | 74-87-3 | Vapor | >480 |
| Methyl chloroform | 71-55-6 | Liquid | >480 |
| Methyl cyanide | 75-05-8 | Liquid | imm |
| Methyl ethyl ketone | 78-93-3 | Liquid | >480 |
| Methyl formamide, N- | 123-39-7 | Liquid | >480 |
| Methyl isocyanate | 624-83-9 | Liquid | 12 |
| Methyl ketone | 67-64-1 | Liquid | 462 |
| Methyl mercaptan | 74-93-1 | Vapor | >480 |
| Methyl pentan-2-one, 4- | 108-10-1 | Liquid | >480 |
| Methyl propenoic acid, 2- | 79-41-4 | Liquid | 81 |
| Methyl pyridine, 2- | 109-06-8 | Liquid | >480 |
| Methyl pyridine, 3- | 108-99-6 | Liquid | >480 |
| Methyl tert-butyl ether | 1634-04-4 | Liquid | >480 |
| Methyl trichloromethane | 71-55-6 | Liquid | >480 |
| Methyl trichlorosilane | 75-79-6 | Liquid | >480 |
| Methylene bromide | 74-95-3 | Liquid | 40 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through |
|--|------------|--------|--------------------------|
| Methylene chloride | 75-09-2 | Liquid | imm |
| Methylene diphenyl diisocyanate, 4,4'- (50 °C, molten) | 101-68-8 | Liquid | >480 |
| N-Methylmorpholine (NMM) | 109-02-4 | Liquid | >480 |
| Naphthalene | 91-20-3 | Solid | >480 |
| Naphthalene (25% in Diethylene glycol dimethylether) | 91-20-3 | Liquid | >480 |
| Nicotine | 54-11-5 | Liquid | >480 |
| Nitric acid (90%) | 7697-37-2 | Liquid | >480 |
| Nitro benzene | 98-95-3 | Liquid | >480 |
| Nitro methane | 75-52-5 | Liquid | >480 |
| Nitro propane, 2- | 79-46-9 | Liquid | >480 |
| Norflurane | 811-97-2 | Vapor | >480 |
| Oleum (65% free SO3) | 8014-95-7 | Liquid | 15 |
| Oxalic acid (sat) | 144-62-7 | Liquid | >480 |
| PCB in transformer oil (mix) | mix | Liquid | >480 |
| Pentanol, 1- | 71-41-0 | Liquid | >480 |
| Pentyl acetate | 628-63-7 | Liquid | >480 |
| Peracetic Acid (32%) | 79-21-0 | Liquid | >480 |
| Phenethyl alcohol, 2- | 60-12-8 | Liquid | >480 |
| Phenethylene | 100-42-5 | Liquid | >480 |
| Phenol (45 °C, molten) | 108-95-2 | Liquid | 17 |
| Phenol (60 °C, molten) | 108-95-2 | Liquid | imm |
| Phenol (85%) | 108-95-2 | Liquid | 341 |
| Phenyl acetonitrile | 140-29-4 | Liquid | >480 |
| Phenyl amine | 62-53-3 | Liquid | 320 |
| Phenyl chloride | 108-90-7 | Liquid | 63 |
| Phenyl cyanide | 100-47-0 | Liquid | 450 |
| Phenyl ethane | 100-41-4 | Liquid | >480 |
| Phenyl ethanol, 1- | 98-85-1 | Liquid | >480 |
| Phenyl propane, 2- | 98-82-8 | Liquid | 364 |
| Phosgene | 75-44-5 | Vapor | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Phosphinic acid (50%) | 6303-21-5 | Liquid | >480 |
| Phosphoric acid (85%) | 7664-38-2 | Liquid | >480 |
| Phosphorus oxychloride | 10025-87-3 | Liquid | 410 |
| Phosphorus trichloride | 7719-12-2 | Liquid | >480 |
| Picoline, 2- | 109-06-8 | Liquid | >480 |
| Picoline, 3- | 108-99-6 | Liquid | >480 |
| Polymethylene polyphenyle isocyanate (p-MDI) | 9016-87-9 | Liquid | >480 |
| Potassium carbonate (sat) | 584-08-7 | Liquid | >480 |
| Potassium hydroxide (45%) | 1310-58-3 | Liquid | >480 |
| Prop-2-en-1-al | 107-02-8 | Liquid | 25*/178 |
| Propan -2-ol | 67-63-0 | Liquid | >480 |
| Propan -2-one | 67-64-1 | Liquid | 462 |
| Propen 1-ol, 2- | 107-18-6 | Liquid | >480 |
| Propenenitrile, 2- | 107-13-1 | Liquid | 31 |
| Propenoic acid nitrile | 107-13-1 | Liquid | 31 |
| Propyl amine, n- | 107-10-8 | Liquid | 100 |
| Propyl bromide, n- | 106-94-5 | Liquid | >480 |
| Propylene oxide, 1,2- | 75-56-9 | Liquid | 47 |
| Pyridine | 110-86-1 | Liquid | >480 |
| Pyroacetic ether | 67-64-1 | Liquid | 462 |
| Pyrrolidine | 123-75-1 | Liquid | 342 |
| Sarin (GB), MIL-STD-282 (10 g/m ²) | 107-44-8 | Liquid | 120 ⁸ |
| Silicon tetrachloride | 10026-04-7 | Liquid | >480 |
| Sodium cyanide (45%) | 143-33-9 | 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 | 23 |
| Soman (GD), MIL-STD-282 (10 g/m ²) | 96-64-0 | Liquid | >480 ⁸ |
| Spiritus | 64-17-5 | Liquid | >480 |
| Styrene | 100-42-5 | Liquid | >480 |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|---|------------|--------|----------------------------|
| Sulfur Mustard (HD), MIL-STD-282 (10 g/m ²) | 505-60-2 | Liquid | 120 ⁸ |
| Sulfur trioxide | 7446-11-9 | Liquid | imm |
| Sulfuric acid (>95%) | 7664-93-9 | Liquid | >480 |
| Sulfuric acid diethyl ester | 64-67-5 | Liquid | >480 |
| Sulfuric acid dimethyl ester | 77-78-1 | Liquid | >480 |
| Sulfuric acid fuming (65% free SO ₃) | 8014-95-7 | Liquid | 15 |
| Sulfuryl chloride | 7791-25-5 | Liquid | 120 |
| Sulphur dichloride (80%) | 10545-99-0 | Liquid | imm |
| Tetrachloro ethane, 1,1,2,2,- | 79-34-5 | Liquid | >480 |
| Tetrachloro ethylene, 1,1,2,2- | 127-18-4 | Liquid | >480 |
| Tetrachloro methane | 56-23-5 | Liquid | >480 |
| Tetraethyl lead | 78-00-2 | Liquid | >480 |
| Tetraethylene pentamine | 112-57-2 | Liquid | >480 |
| Tetrafluoroethane, 1,1,1,2- | 811-97-2 | Vapor | >480 |
| Tetrahydrofuran | 109-99-9 | Liquid | >480 |
| Tetramethylethylene diamine (TMEDA) | 110-18-9 | Liquid | >480 |
| Thioglycolic acid | 68-11-1 | Liquid | >480 |
| Thionyl chloride | 7719-09-7 | Liquid | 15 |
| Titan(IV) chloride | 7550-45-0 | Liquid | 120 |
| Titanium tetrachloride | 7550-45-0 | Liquid | 120 |
| Toluene | 108-88-3 | Liquid | >480 |
| Toluene diisocyanate, 2,4- | 584-84-9 | Liquid | >480 |
| Toluene diisocyanate, 2,4- (80%) | 584-84-9 | Liquid | >480 |
| Tributyl amine (95%) | 102-82-9 | Liquid | >480 |
| Trichloro 1,2,2-trifluoroethane, 1,1,2- | 76-13-1 | Liquid | >480 |
| Trichloro benzene, 1,2,4- | 120-82-1 | Liquid | >480 |
| Trichloro ethane, 1,1,1- | 71-55-6 | Liquid | >480 |
| Trichloro ethanol, 2,2,2- | 115-20-8 | Liquid | >480 |
| Trichloro ethylene | 79-01-6 | Liquid | >480 |
| Trichloro methane | 67-66-3 | Liquid | imm |

| Hazard / Chemical Name | Cas Number | Phase | Normalized Break Through . |
|--|------------|--------|----------------------------|
| Triethyltetramine (60%) | 112-24-3 | Liquid | >480 |
| VX Nerve Agent, MIL-STD-282 (10 g/m ²) | 50782-69-9 | Liquid | >480 ⁸ |
| Vinyl acetate | 108-05-4 | Liquid | >480 |
| Vinyl benzol | 100-42-5 | Liquid | >480 |
| Vinyl carbinol | 107-18-6 | Liquid | >480 |
| Vinyl chloride | 75-01-4 | Vapor | >480 |
| Vinyl cyanide | 107-13-1 | Liquid | 31 |
| Vinyl ethylene (gaseous) | 106-99-0 | Vapor | >480 |
| Vinylidene chloride | 75-35-4 | Liquid | 170 |
| White Liquor | mix | Liquid | >480 |
| Xylene, mixed isomers | 1330-20-7 | Liquid | >480 |
| Xylene, o- | 95-47-6 | 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

Important Note:

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