

RF600T SV

DuPont™ Tychem® Reflector®



Chemical Resistance Data

[Testing Details](#)  [DuPont Permeation Guide](#)

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time (average, normalized to 0.1 ug/cm ² /min) / Performance |
|---------------------------------------|------------|--------|---|
| 1,1,2,2-Tetrachloroethylene | 127-18-4 | Liquid | >480 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | Vapor | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--------------------------------------|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| 1,3-Butadiene (gas) | 106-99-0 | Vapor | >480 |
| 1,5-Pentanediol (5% in water) | 111-30-8 | Liquid | >480 |
| 1,5-Pentanediol (50%) | 111-30-8 | Liquid | >480 |
| 1-Aminobutane | 109-73-9 | Liquid | >480 |
| Acetaldehyde | 75-07-0 | Liquid | >480 |
| Acetic acid | 64-19-7 | Liquid | >480 |
| Acetic anhydride | 108-24-7 | Liquid | >480 |
| Acetone | 67-64-1 | Liquid | >480 |
| Acetone cyanohydrin | 75-86-5 | Liquid | >480 |
| Acetonitrile | 75-05-8 | Liquid | >480 |
| Acetyl chloride | 75-36-5 | Liquid | 181 |
| Acrolein | 107-02-8 | Liquid | >480 |
| Acrylamide (50% in water) | 79-06-1 | Liquid | >480 |
| Acrylic acid | 79-10-7 | Liquid | 270 |
| Acrylonitrile | 107-13-1 | Liquid | >480 |
| Acrylonitrile (10 g/m ²) | 107-13-1 | Liquid | >480 |
| Adiponitrile | 111-69-3 | Liquid | >480 |
| Allyl alcohol | 107-18-6 | Liquid | >480 |
| Allyl chloride | 107-05-1 | Liquid | >480 |
| Aminobutane, 1- | 109-73-9 | Liquid | >480 |
| Aminoethylethanolamine | 111-41-1 | Liquid | >480 |
| Aminoethylethanolamine (60%) | 111-41-1 | Liquid | >480 |
| Aminoethylpiperazine | 140-31-8 | Liquid | >480 |
| Ammonia (gas) | 7664-41-7 | Vapor | >480 |
| Ammonia (liquid, < -35°C) | 7664-41-7 | Liquid | >480 |
| Ammonium fluoride (40%) | 12125-01-8 | Liquid | >480 |
| Ammonium hydroxide (28%-30%) | 1336-21-6 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|-------------------------------------|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Anhydrous ammonia (gas) | 7664-41-7 | Vapor | >480 |
| Anhydrous ammonia (liquid, < -35°C) | 7664-41-7 | Liquid | >480 |
| Aniline | 62-53-3 | Liquid | >480 |
| Arsine | 7784-42-1 | Vapor | >480 |
| Asbestos (all forms) | 1332-21-4 | Solid | May be Suitable for Use |
| Benzene | 71-43-2 | Liquid | >480 |
| Benzene sulfonyl chloride | 98-09-9 | Liquid | >480 |
| Benzidine (25% in methanol) | 92-87-5 | Liquid | >480 |
| Benzonitrile | 100-47-0 | Liquid | >480 |
| Benzoyl chloride | 98-88-4 | Liquid | >480 |
| Benzyl chloride | 100-44-7 | Liquid | >480 |
| Beryllium | 7440-41-7 | Solid | May be Suitable for Use |
| Bisphenol-A diglycidyl ether | 1675-54-3 | Liquid | >480 |
| Black liquor | 308074-23-9 | Liquid | >480 |
| Boron trichloride | 10294-34-5 | Vapor | >480 |
| Boron trifluoride | 7637-07-2 | Vapor | >480 |
| Bromine | 7726-95-6 | Liquid | imm. |
| Bromofluorobenzene, 4- | 460-00-4 | Liquid | >480 |
| Butadiene, 1,3- (gas) | 106-99-0 | Vapor | >480 |
| Butan-1-amine | 109-73-9 | Liquid | >480 |
| Butanol, n- | 71-36-3 | Liquid | >480 |
| Butyl acetate, n- | 123-86-4 | Liquid | >480 |
| Butyl acrylate, n- | 141-32-2 | Liquid | 51 |
| Butyl ether, n- | 142-96-1 | Liquid | >480 |
| Butylamine, n- | 109-73-9 | Liquid | >480 |
| Butyraldehyde, n- | 123-72-8 | Liquid | >480 |
| CK (Cyanogen chloride) | 506-77-4 | Vapor | >60 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Carbon disulfide | 75-15-0 | Liquid | >480 |
| Carbon monoxide | 630-08-0 | Vapor | 330 |
| Carbon tetrachloride | 56-23-5 | Liquid | >480 |
| Caustic potash (45%) | 1310-58-3 | Liquid | >480 |
| Caustic soda (42-50%) | 1310-73-2 | Liquid | >480 |
| Chlordane | 57-74-9 | Liquid | >480 |
| Chlorine (gas) | 7782-50-5 | Vapor | >480 |
| Chlorine (liquid, -70° C) | 7782-50-5 | Liquid | >480 |
| Chlorine dioxide (1000 ppm) | 10049-04-4 | Vapor | >480 |
| Chlorine sulfide (80%) | 10545-99-0 | Liquid | 70 |
| Chlorine trifluoride | 7790-91-2 | Vapor | 45 |
| Chloro-1,2-propanediol, 3- | 96-24-2 | Liquid | >480 |
| Chloroacetic acid | 79-11-8 | Liquid | >480 |
| Chloroacetic acid (70%-80%) | 79-11-8 | Liquid | >480 |
| Chloroacetyl chloride | 79-04-9 | Liquid | 160 |
| Chloroaniline, 4- | 106-47-8 | Solid | >480 |
| Chloroaniline, 4- (70° C) | 106-47-8 | Liquid | 344 |
| Chloroaniline, p- | 106-47-8 | Solid | >480 |
| Chloroaniline, p- (70° C) | 106-47-8 | Liquid | 344 |
| Chlorobenzene | 108-90-7 | Liquid | >480 |
| Chloroethanol, 2- | 107-07-3 | Liquid | >480 |
| Chloroform | 67-66-3 | Liquid | >480 |
| Chloromethyl methyl ether | 107-30-2 | Liquid | >480 |
| Chlorophenol, 4- (sat. sol. in methanol) | 106-48-9 | Liquid | >480 |
| Chlorosulfonic acid | 7790-94-5 | Liquid | 180 |
| Chlorotoluene, o- | 95-49-8 | Liquid | >480 |
| Cresol, mixed isomers | 1319-77-3 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Crude oil | 8002-05-9 | Liquid | >480 |
| Cumene | 98-82-8 | Liquid | >480 |
| Cyanogen chloride | 506-77-4 | Vapor | >60 |
| Cyanuric chloride (20%, Toluene 80%) | 108-77-0 | Liquid | >480 |
| Cyclohexane | 110-82-7 | Liquid | >480 |
| Cyclohexanone | 108-94-1 | Liquid | >480 |
| Diborane (10%) | 19287-45-7 | Vapor | >480 |
| Dichloro-6-isopropyl-S-triazine, 2,4- (22% in toluene) | 30894-74-7 | Liquid | >480 |
| Dichloroacetone (40° C) | 534-07-6 | Liquid | >480 |
| Dichloroacetyl chloride | 79-36-7 | Liquid | 100 |
| Dichloroaniline, 3,4- (liquid, 70° C) | 95-76-1 | Liquid | 284 |
| Dichloroaniline, 3,4- (solid) | 95-76-1 | Solid | >480 |
| Dichloroethyl ether | 111-44-4 | Liquid | >480 |
| Dichloromethane | 75-09-2 | Liquid | >480 |
| Dichloropropene,2,3- | 78-88-6 | Liquid | >480 |
| Dichlorosilane | 4109-96-0 | Vapor | >480 |
| Diesel fuel | 68334-30-5 | Liquid | >480 |
| Diethylamine | 109-89-7 | Liquid | >480 |
| Diethylaniline | 91-66-7 | Liquid | >480 |
| Diethylenetriamine | 111-40-0 | Liquid | >480 |
| Diethylhexyl phthalate | 117-81-7 | Liquid | >480 |
| Diiodo-1,1,2,2-tetrafluorobutane, 1,4- | 755-95-3 | Liquid | >480 |
| Dimethyl sulfate | 77-78-1 | Liquid | >480 |
| Dimethyl sulfoxide | 67-68-5 | Liquid | >480 |
| Dimethyl-acetamide, N,N- | 127-19-5 | Liquid | >480 |
| Dimethyl-acetamide, N,N- (8% in water) | 127-19-5 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Dimethylaniline, N,N- | 121-69-7 | Liquid | >480 |
| Dimethylene oxide (gas) | 75-21-8 | Vapor | >480 |
| Dimethylene oxide (liquid, 0° C) | 75-21-8 | Liquid | >480 |
| Dimethylformamide, N,N- | 68-12-2 | Liquid | >480 |
| Dimethylhydrazine, 1,1- | 57-14-7 | Liquid | >480* |
| Dinitroresol (sat. sol. in methanol) | 534-52-1 | Liquid | >480 |
| Dioxane, 1,4- | 123-91-1 | Liquid | >480 |
| Diphenylmethane Diisocyanate 4,4- | 101-68-8 | Solid | >480 |
| Dirt (general) | unknown | Solid | May be Suitable for Use |
| Disodium sulfide (60% w/w in water slurry) | 1313-82-2 | Liquid | >480 |
| Disulfur dichloride | 10025-67-9 | Liquid | >480 |
| Epichlorohydrin | 106-89-8 | Liquid | >480 |
| Epoxyethane (gas) | 75-21-8 | Vapor | >480 |
| Epoxyethane (liquid, 0° C) | 75-21-8 | Liquid | >480 |
| Ethaneethiol | 75-08-1 | Liquid | >480 |
| Ethanolamine | 141-43-5 | Liquid | >480 |
| Ethyl Cellosolve® | 110-80-5 | Liquid | >480 |
| Ethyl Cellosolve® acetate | 111-15-9 | Liquid | >480 |
| Ethyl Mercaptan | 75-08-1 | Liquid | >480 |
| Ethyl acetate | 141-78-6 | Liquid | >480 |
| Ethyl acrylate | 140-88-5 | Liquid | 14 |
| Ethyl benzene | 100-41-4 | Liquid | >480 |
| Ethyl ether | 60-29-7 | Liquid | >480 |
| Ethyl parathion | 56-38-2 | Liquid | >480 |
| Ethylamine (15° C) | 75-04-7 | Liquid | 361 |
| Ethylene dibromide | 106-93-4 | Liquid | >480 |
| Ethylene dichloride | 107-06-2 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Ethylene glycol | 107-21-1 | Liquid | >480 |
| Ethylene oxide (gas) | 75-21-8 | Vapor | >480 |
| Ethylene oxide (liquid, 0° C) | 75-21-8 | Liquid | >480 |
| Ethylenediamine | 107-15-3 | Liquid | >480 |
| Ethyleneimine | 151-56-4 | Liquid | 59 |
| Fertilizer (general; solid form) | unknown | Solid | May be Suitable for Use |
| Fiberglass | unknown | Solid | May be Suitable for Use |
| Fluorobenzene | 462-06-6 | Liquid | >480 |
| Fluorosilicic acid | 16961-83-4 | Liquid | >480 |
| Fluorosulfonic acid | 7789-21-1 | Liquid | >480 |
| Formaldehyde (100 ppm) | 50-00-0 | Vapor | >480 |
| Formalin (37% Formaldehyde, 10-15% Methanol) | mixture | Liquid | >480 |
| Formic acid | 64-18-6 | Liquid | >480 |
| Fungicide (general; solid form) | unknown | Solid | May be Suitable for Use |
| Furfural | 98-01-1 | Liquid | >480 |
| Gasoline | 86290-81-5 | Liquid | >480 |
| Glutaric acid dialdehyde (5% in water) | 111-30-8 | Liquid | >480 |
| Glutaric acid dialdehyde (50%) | 111-30-8 | Liquid | >480 |
| Glutaric aldehyde (5% in water) | 111-30-8 | Liquid | >480 |
| Glutaric aldehyde (50%) | 111-30-8 | Liquid | >480 |
| Gluteraldehyde (5% in water) | 111-30-8 | Liquid | >480 |
| Gluteraldehyde (50%) | 111-30-8 | Liquid | >480 |
| Glycolic acid (sat. sol. in water) | 79-14-1 | Liquid | >480 |
| Green liquor | 68131-30-6 | Liquid | >480 |
| HCN (Hydrogen cyanide) (gas) | 74-90-8 | Vapor | >480 |
| HCN (Hydrogen cyanide) (liquid, 21° C) | 74-90-8 | Liquid | 105 |
| Hazardous Particles (larger than 0.3 micron in | unknown | Solid | May be Suitable for Use |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time (average, normalized to 0.1 ug/cm ² /min) / Performance |
|--|------------|--------|---|
| size) | | | |
| Hazardous Particles (larger than 1 micron in size) | unknown | Solid | May be Suitable for Use |
| Herbicide (general; solid form) | unknown | Solid | May be Suitable for Use |
| Hexachlorobutadiene | 87-68-3 | Liquid | >480 |
| Hexafluoroethane | 76-16-4 | Vapor | >480 |
| Hexafluoroisobutylene | 382-10-5 | Vapor | >480 |
| Hexamethyldisilazane | 999-97-3 | Liquid | >480 |
| Hexamethylene diisocyanate | 822-06-0 | Liquid | >480 |
| Hexamethylenediamine, 1,6- (45° C) | 124-09-4 | Liquid | >480 |
| Hexane, n- | 110-54-3 | Liquid | >480 |
| Hexone | 108-10-1 | Liquid | >480 |
| Hydrazine | 302-01-2 | Liquid | >480 |
| Hydrazine hydrate | 10217-52-4 | Liquid | >480 |
| Hydrazine hydrate (85%) | 10217-52-4 | Liquid | 440 |
| Hydriodic acid (55-57%) | 10034-85-2 | Liquid | >480 |
| Hydrochloric acid (37%) | 7647-01-0 | Liquid | >480 |
| Hydrocyanic acid (gas) | 74-90-8 | Vapor | >480 |
| Hydrocyanic acid (liquid, 21° C) | 74-90-8 | Liquid | 105 |
| Hydrofluoric acid (48-51%) | 7664-39-3 | Liquid | >480 |
| Hydrofluoric acid (70%) | 7664-39-3 | Liquid | >480 |
| Hydrofluoric acid (92% at 90° C) | 7664-39-3 | Liquid | 67* |
| Hydrogen bromide (gas) | 10035-10-6 | Vapor | >480 |
| Hydrogen chloride (gas) | 7647-01-0 | Vapor | >480 |
| Hydrogen cyanide (gas) | 74-90-8 | Vapor | >480 |
| Hydrogen cyanide (liquid, 21° C) | 74-90-8 | Liquid | 105 |
| Hydrogen fluoride (gas) | 7664-39-3 | Vapor | >480 |
| Hydrogen fluoride (liquid, 15° C) | 7664-39-3 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Hydrogen peroxide (70%) | 7722-84-1 | Liquid | >480 |
| Hydrogen selenide | 7783-07-5 | Vapor | >480 |
| Hydrogen sulfide | 7783-06-4 | Vapor | >480 |
| IPA (Isopropyl alcohol) | 67-63-0 | Liquid | >480 |
| Insecticide (general; solid form) | unknown | Solid | May be Suitable for Use |
| Isopropanol | 67-63-0 | Liquid | >480 |
| Isopropyl alcohol | 67-63-0 | Liquid | >480 |
| Isopropylamine | 75-31-0 | Liquid | >480 |
| JP-4 jet fuel | 50815-00-4 | Liquid | >480 |
| JP-8 jet fuel | 94114-58-6 | Liquid | >480 |
| Jet A fuel | 8008-20-6 | Liquid | >480 |
| KOH (Potassium hydroxide) (45%) | 1310-58-3 | Liquid | >480 |
| Kerosene | 8008-20-6 | Liquid | >480 |
| Lead | 7439-92-1 | Solid | May be Suitable for Use |
| Lewisite (10 g/m ²) | 541-25-3 | Liquid | >480 |
| Lewisite (100 g/m ²) | 541-25-3 | Liquid | 120 |
| Lime | mixture | Solid | May be Suitable for Use |
| Lindane (sat. sol. in acetone) | 58-89-9 | Liquid | >480 |
| Lye (42-50%) | 1310-73-2 | Liquid | >480 |
| MEK (Methyl ethyl ketone) | 78-93-3 | Liquid | >480 |
| MIBK (Methyl isobutyl ketone) | 108-10-1 | Liquid | >480 |
| Malathion | 121-75-5 | Liquid | >480 |
| Malathion (50% in methanol) | 121-75-5 | Liquid | >480 |
| Mercuric chloride (sat. sol. in water) | 7487-94-7 | Liquid | >480* |
| Mercury | 7439-97-6 | Liquid | >480 |
| Methacrylic acid | 79-41-4 | Liquid | >480 |
| Methane sulfonyl chloride | 124-63-0 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Methanol | 67-56-1 | Liquid | >480 |
| Methomyl (29% in water) | 16752-77-5 | Liquid | >480 |
| Methyl Cellosolve® | 109-86-4 | Liquid | >480 |
| Methyl Cellosolve® acetate | 110-49-6 | Liquid | >480 |
| Methyl acrylate | 96-33-3 | Liquid | >480 |
| Methyl bromide | 74-83-9 | Vapor | >480 |
| Methyl chloride (gas) | 74-87-3 | Vapor | >480 |
| Methyl chloroformate | 79-22-1 | Liquid | >480 |
| Methyl ethyl ketone | 78-93-3 | Liquid | >480 |
| Methyl ethyl ketoxime | 96-29-7 | Liquid | >480 |
| Methyl fluoride | 593-53-3 | Vapor | >480 |
| Methyl formate | 107-31-3 | Liquid | >480 |
| Methyl hydrazine | 60-34-4 | Liquid | >480 |
| Methyl iodide | 74-88-4 | Liquid | >480 |
| Methyl isobutyl ketone | 108-10-1 | Liquid | >480 |
| Methyl isocyanate | 624-83-9 | Liquid | >480 |
| Methyl mercaptan | 74-93-1 | Vapor | >480 |
| Methyl methacrylate | 80-62-6 | Liquid | >480 |
| Methyl tert-butyl ether | 1634-04-4 | Liquid | >480 |
| Methyl trichlorosilane | 75-79-6 | Liquid | >480 |
| Methyl-2-pyrrolidone, N- | 872-50-4 | Liquid | >480 |
| Methylamine | 74-89-5 | Vapor | 105 |
| Methylamine (40% in water) | 74-89-5 | Liquid | 261 |
| Methylamine (50% in water) | 74-89-5 | Liquid | 232 |
| Methylene bis (o-chloroaniline), 4,4'- (sat. sol. in methanol) | 101-14-4 | Liquid | >480 |
| Methylene chloride | 75-09-2 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Methylene dianiline, 4,4'- (15% in MEK) | 101-77-9 | Liquid | >480 |
| Methylene diphenyl isocyanate | 101-68-8 | Solid | >480 |
| Mineral spirits | 64475-85-0 | Liquid | >480 |
| Mold spores | unknown | Solid | May be Suitable for Use |
| Morpholine | 110-91-8 | Liquid | >480 |
| Muriatic acid (37%) | 7647-01-0 | Liquid | >480 |
| N,N-Dimethylformamide | 68-12-2 | Liquid | >480 |
| N-Aminoethyl ethanolamine | 111-41-1 | Liquid | >480 |
| N-Aminoethyl ethanolamine (60%) | 111-41-1 | Liquid | >480 |
| NaOH (Sodium hydroxide) (42-50%) | 1310-73-2 | Liquid | >480 |
| Nicotine | 54-11-5 | Liquid | >480 |
| Nitric acid (70%) | 7697-37-2 | Liquid | >480 |
| Nitric acid (90%) | 7697-37-2 | Liquid | >480 |
| Nitric acid, red fuming | 52583-42-3 | Liquid | >480 |
| Nitrobenzene | 98-95-3 | Liquid | >480 |
| Nitrogen tetroxide (gas) | 10544-72-6 | Vapor | 420 |
| Nitrogen tetroxide (liquid, 0° C) | 10544-72-6 | Liquid | >480 |
| Nitrogen trifluoride | 7783-54-2 | Vapor | >480 |
| Nitromethane | 75-52-5 | Liquid | >480 |
| Nitrophenol, o- (70° C) | 88-75-5 | Liquid | 208 |
| Nitropropane, 2- | 79-46-9 | Liquid | >480 |
| Nitrous oxide | 10024-97-2 | Vapor | >480 |
| Non-Hazardous Particles (larger than 0.3 micron in size) | unknown | Solid | May be Suitable for Use |
| Non-Hazardous Particles (larger than 1 micron in size) | unknown | Solid | May be Suitable for Use |
| Octane, n- | 111-65-9 | Liquid | >480 |
| Oleum (40% free SO3) | 8014-95-7 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Oxalic acid (10.5%) | 144-62-7 | Liquid | >480 |
| PCB (50% in trichlorobenzene) | mixture | Liquid | >480 |
| Paraphenylene diisocyanate (PPDI) crude | 104-49-4 | Liquid | >480 |
| Pentachlorophenol (sat. sol. in methanol) | 87-86-5 | Liquid | >480 |
| Pentanedial, 1,5- (5% in water) | 111-30-8 | Liquid | >480 |
| Pentanedial, 1,5- (50%) | 111-30-8 | Liquid | >480 |
| Pentenenitrile, 3- | 4635-87-4 | Liquid | >480 |
| Perchloric acid (70%) | 7601-90-3 | Liquid | >480 |
| Pesticide (general; solid form) | unknown | Solid | May be Suitable for Use |
| Phenol (45° C) | 108-95-2 | Liquid | >480 |
| Phenol (60° C) | 108-95-2 | Liquid | 87 |
| Phenol (85-90%) | 108-95-2 | Liquid | >480 |
| Phenol (88% at 45° C) | 108-95-2 | Liquid | 135 |
| Phenyl mercaptan | 108-98-5 | Liquid | >480 |
| Phosgene | 75-44-5 | Vapor | >480 |
| Phosphine | 7803-51-2 | Vapor | >480 |
| Phosphoric acid (85%) | 7664-38-2 | Liquid | >480 |
| Phosphorus oxychloride | 10025-87-3 | Liquid | >480 |
| Phosphorus trichloride | 7719-12-2 | Liquid | >480 |
| Picoline, 2- | 109-06-8 | Liquid | >480 |
| Picoline, 3- | 108-99-6 | Liquid | >480 |
| Polychlorinated biphenyl (50% in trichlorobenzene) mixture | | Liquid | >480 |
| Polymethylene polyphenyl-polyisocyanate | 9016-87-9 | Liquid | >480 |
| Potash lye (45%) | 1310-58-3 | Liquid | >480 |
| Potassium acetate (sat. sol. in water) | 127-08-2 | Liquid | >480* |
| Potassium chromate (sat. sol. in water) | 7789-00-6 | Liquid | >480* |
| Potassium hydroxide (45%) | 1310-58-3 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Propane | 74-98-6 | Vapor | >480 |
| Propylene dichloride | 78-87-5 | Liquid | >480 |
| Propylene imine | 75-55-8 | Liquid | 150 |
| Propylene oxide, 1,2- | 75-56-9 | Liquid | >480 |
| Pyridine | 110-86-1 | Liquid | >480 |
| Pyrrolidine | 123-75-1 | Liquid | 413 |
| Radioactive particles | unknown | Solid | May be Suitable for Use |
| Sarin (10 g/m ²) | 107-44-8 | Liquid | >480 |
| Sarin (100 g/m ²) | 107-44-8 | Liquid | >480 |
| Silane | 7803-62-5 | Vapor | >480 |
| Silicon tetrachloride | 10026-04-7 | Liquid | >480 |
| Sodium disulfite (38% w/w in water) | 7681-57-4 | Liquid | >480 |
| Sodium hydroxide (42-50%) | 1310-73-2 | Liquid | >480 |
| Sodium hypochlorite (15%) | 7681-52-9 | Liquid | >480 |
| Sodium metabisulfite (38% w/w in water) | 7681-57-4 | Liquid | >480 |
| Sodium methylate (50% in methanol) | 124-41-4 | Liquid | >480 |
| Sodium pyrosulfite (38% w/w in water) | 7681-57-4 | Liquid | >480 |
| Sodium sulfide (60% w/w in water slurry) | 1313-82-2 | Liquid | >480 |
| Soman (10 g/m ²) | 96-64-0 | Liquid | >480 |
| Stoddard solvent | 8052-41-3 | Liquid | >480 |
| Styrene | 100-42-5 | Liquid | >480 |
| Sulfamic acid (15%) | 5329-14-6 | Liquid | >480 |
| Sulfonyl chloride | 7791-25-5 | Liquid | >480 |
| Sulfur chloride | 10025-67-9 | Liquid | >480 |
| Sulfur dichloride (80%) | 10545-99-0 | Liquid | 70 |
| Sulfur dioxide | 7446-09-5 | Vapor | >480 |
| Sulfur hexafluoride | 2551-62-4 | Vapor | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|---|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Sulfur monochloride | 10025-67-9 | Liquid | >480 |
| Sulfur mustard (10 g/m ²) | 505-60-2 | Liquid | >480 |
| Sulfur mustard (100 g/m ²) | 505-60-2 | Liquid | >480 |
| Sulfur trioxide | 7446-11-9 | Liquid | 90 |
| Sulfuric acid | 7664-93-9 | Liquid | >480 |
| Tabun (10 g/m ²) | 77-81-6 | Liquid | >480 |
| Tar balls | unknown | Solid | May be Suitable for Use |
| Tetrachloroethane, 1,1,2,2- | 79-34-5 | Liquid | >480 |
| Tetrachloroethylene, 1,1,2,2- | 127-18-4 | Liquid | >480 |
| Tetraethoxysilane | 78-10-4 | Liquid | >480 |
| Tetraethyl lead | 78-00-2 | Liquid | >480 |
| Tetraethylenepentamine | 112-57-2 | Liquid | >480 |
| Tetrafluoromethane | 75-73-0 | Vapor | >480 |
| Tetrahydrofuran | 109-99-9 | Liquid | >480 |
| Tetramethyltin (0.5% in n-pentane) | mixture | Liquid | >480 |
| Thioglycolic acid | 68-11-1 | Liquid | >480 |
| Thionyl chloride | 7719-09-7 | Liquid | 35 |
| Titanium tetrachloride | 7550-45-0 | Liquid | >480 |
| Toluene | 108-88-3 | Liquid | >480 |
| Toluene-1,3-diisocyanate | 26471-62-5 | Liquid | >480 |
| Toluene-2,4-diisocyanate | 584-84-9 | Liquid | >480* |
| Toluidine, o- | 95-53-4 | Liquid | >480 |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1 | Vapor | >480 |
| Trichlorobenzene, 1,2,4- | 120-82-1 | Liquid | >480 |
| Trichloroethane, 1,1,1- | 71-55-6 | Liquid | >480 |
| Trichloroethane, 1,1,2- | 79-00-5 | Liquid | >480 |
| Trichloroethanol, 2,2,2- | 115-20-8 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS Number | Phase | Breakthrough Time |
|--|---------------|--------|--|
| | | | (average, normalized to 0.1 ug/cm ² /min) / Performance |
| Trichloroethylene | 79-01-6 | Liquid | >480 |
| Trichlorosilane | 10025-78-2 | Liquid | >480 |
| Triethylaluminum | 97-93-8 | Liquid | >480 |
| Triethylamine | 121-44-8 | Liquid | >480 |
| Triethylenetetramine (60%) | 112-24-3 | Liquid | >480 |
| Trifluoroethanol, 2,2,2- | 75-89-8 | Liquid | >480 |
| Trifluoromethane | 75-46-7 | Vapor | >480 |
| Trifluoromethane sulfonic acid | 1493-13-6 | Liquid | >480 |
| Trimethyl phosphate | 512-56-1 | Liquid | >480 |
| Trimethyl phosphite | 121-45-9 | Liquid | >480 |
| Tripropylamine | 102-69-2 | Liquid | >480 |
| Tungsten hexafluoride | 7783-82-6 | Liquid | >480 |
| VM&P Naphtha | 8030-30-6 | Liquid | >480 |
| VX Nerve agent (10 g/m ²) | 50782-69-9 | Liquid | >480 |
| VX Nerve agent (100 g/m ²) | 50782-69-9 | Liquid | >480 |
| Vinyl acetate | 108-05-4 | Liquid | >480 |
| Vinyl chloride | 75-01-4 | Vapor | >480 |
| Vinylidene chloride | 75-35-4 | Liquid | >480 |
| Vinylmagnesium chloride (16.5%) | 3536-96-7 | Liquid | >480 |
| White liquor | 68131-33-9 | Liquid | >480 |
| Xylene, mixed isomers | 1330-20-7 | Liquid | >480 |
| cis-2-Pentenenitrile (70%) | 25899-50-7 | Liquid | >480 |
| d-Limonene | 5989-27-5 | Liquid | >480 |
| m-Cresol 55%, p-Cresol 30%, Phenol 15% | mixture | Liquid | >480 |
| n-Hexane | 110-54-3 | Liquid | >480 |
| t-Sodium-amylate / t-amyl alcohol | mixture | Solid | 120 |
| tert-Butylamine | 75-64-9 | Liquid | >480 |

Tychem® Reflector® - Fabric Data

| Hazard / Chemical Name | CAS | Phase | Breakthrough Time |
|------------------------|----------|--------|-----------------------------|
| | Number | | (average, normalized to 0.1 |
| | | | ug/cm ² /min) |
| | | | / Performance |
| trans-Crotonaldehyde | 123-73-9 | Liquid | >480 |