



## **Chemical Compatibility Guide for: Tychem® BR Suits**

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| Chemical Name                      | Concentration   | Breakthrough Time | Permeation Rate |
|------------------------------------|-----------------|-------------------|-----------------|
|                                    | (%)             | Normalized (min)  | (ug/cm2/min)    |
| 1,1,2,2-TETRACHLOROETHANE          | 95+             | >480              | 0.0005          |
| 1,1,2-TRICHLOROETHANE              | 95+             | >480              | <0.01           |
| 1,3-DICHLOROACETONE (40°C)         | 95+             | >480              | <0.1            |
| 1,4-DIOXANE                        | 95+             | >480              | <0.05           |
| 1,6-HEXAMETHYLENEDIAMINE           | 95+             | >480              | <0.01           |
| 2,2,2-TRICHLOROETHANOL             | 95+             | >480              | <0.01           |
| 2,2,2-TRIFLUOROETHANOL             | 95+             | >480              | <0.001          |
| 2,3-DICHLOROPROPENE                | 95+             | >480              | <0.08           |
| 2-CHLOROETHANOL                    | 95+             | >480              | <0.008          |
| 2-METHYLGLUTARONITRILE             | 87              | >480              | <0.1            |
| 2-PICOLINE                         | 95+             | 46                | 48              |
| 3,4-DICHLOROANILINE                | 95+             | 284               | 2.4             |
| 3-PICOLINE                         | 95+             | 11                | 22              |
| 4,4'METHYLENE BIS(2-CHLOROANILINE) | 95+             | >480              | <0.1            |
| ACETALDEHYDE                       | 95+             | >480              | <0.01           |
| ACETIC ACID                        | 95+             | 339               | 1.3             |
| ACETIC ANHYDRIDE                   | 95+             | >480              | <0.001          |
| ACETONE                            | 95+             | >480              | <0.001          |
| ACETONITRILE                       | 95+             | >480              | <0.01           |
| ACETYL CHLORIDE                    | 95+             | 181               | 2               |
| ACROLEIN                           | 95+             | >480              | <0.02           |
| ACRYLAMIDE                         | 50% in water    | >480              | <0.1            |
| ACRYLIC ACID                       | 95+             | 270               | 1.6             |
| ACRYLONITRILE                      | 95+             | >480              | <0.0003         |
| ADIPONITRILE                       | 95+             | >480              | <0.1            |
| ALLYL ALCOHOL                      | 95+             | >480              | <0.1            |
| ALLYL CHLORIDE                     | 95+             | >480              | <0.06           |
| AMMONIA GAS                        | 95+             | 46                | 0.62            |
| AMMONIUM FLUORIDE                  | 40              | >480              | <0.01           |
| AMMONIUM HYDROXIDE                 | 28-30           | 160               | 4.7             |
| AMYL ACETATE                       | 95+             | >480              | <0.003          |
| ANILINE                            | 95+             | >480              | <0.1            |
| ARSINE                             | 95+             | >480              | <0.01           |
| BENZENE SULFONYL CHLORIDE          | 95+             | >480              | <0.1            |
| BENZIDINE                          | 25% in Methanol | >480              | <0.01           |
| BENZONITRILE                       | 95+             | >480              | <0.004          |
| BENZONITRILE                       | 95+             | >480              | <0.004          |
| BENZOYL CHLORIDE                   | 95+             | >480              | <0.05           |
| BENZYL CHLORIDE                    | 95+             | >480              | <0.01           |
| BORON TRICHLORIDE                  | 95+             | >480              | <0.02           |
| BORON TRIFLUORIDE                  | 95+             | >480              | <0.1            |

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|--------------------------------------|---------------|-------------------|-----------------|
| BROMINE                              | 95+           | imm.              | >50             |
| BUTANOL N-                           | 95+           | >480              | <0.002          |
| BUTYL ETHER N-                       | 95+           | >480              | 0.001           |
| BUTYLAMINE                           | 95+           | >480              | <0.01           |
| BUTYRALDEHYDE                        | 95+           | >480              | <0.007          |
| CARBON DISULFIDE                     | 95+           | >480              | <0.001          |
| CARBON MONOXIDE                      | 95+           | 330               | 0.1             |
| CARBON TETRACHLORIDE                 | 95+           | >480              | <0.015          |
| CELLOSOLVE SOLVENT                   | 95+           | >480              | <0.008          |
| CHLORDANE                            | 95+           | >480              | <0.01           |
| CHLORINE GAS                         | 95+           | >480              | <0.01           |
| CHLORINE TRIFLUORIDE                 | 95+           | 45                | 96              |
| CHLOROBENZENE                        | 95+           | >480              | <0.001          |
| CHLOROFORM                           | 95+           | >480              | <0.004          |
| CHLOROMETHYL METHYL ETHER            | 95+           | >480              | 0.03            |
| CHLOROPICRIN                         | 95+           | 180               | 98              |
| CRESOL, MIXED ISOMERS                | 95+           | >480              | <0.01           |
| CRUDE OIL                            | 95+           | >480              | <0.04           |
| CUMENE                               | 95+           | >480              | <0.001          |
| CYCLOHEXANE                          | 95+           | >480              | <0.03           |
| CYCLOHEXANONE                        | 95+           | >480              | <0.01           |
| DI (2-ETHYLHEXYL) PHTHALATE          | 95+           | >480              | <0.07           |
| DIBORANE                             | 10            | >480              | <0.005          |
| DICHLOROETHYL ETHER                  | 95+           | >480              | <0.01           |
| DICHLOROETHYL ETHER                  | 95+           | >480              | <0.01           |
| DICHLOROMETHANE                      | 95+           | 432               | 0.06            |
| DICHLOROPROPANE 1,2-                 | 95+           | >480              | <0.01           |
| DICHLOROSILANE                       | 95+           | >480              | <0.1            |
| DIESEL FUEL                          | 95+           | >480              | <0.03           |
| DIETHYLAMINE                         | 95+           | >480              | <0.001          |
| DIETHYLENETRIAMINE                   | 95+           | >480              | <0.1            |
| DIMETHYL ACETAMIDE N, N-             | 95+           | >480              | <0.006          |
| DIMETHYL HYDRAZINE                   | 95+           | >480              | <5.0            |
| DIMETHYL SULFATE                     | 95+           | >480              | <0.001          |
| DIMETHYL SULFOXIDE                   | 95+           | >480              | <0.003          |
| DIMETHYLFORMAMIDE N,N-               | 95+           | >480              | <0.001          |
| DINITRO-O-CRESOL                     | 95+           | >480              | <0.013          |
| DIPHENYLMETHANE DIISOCYANATE<br>4,4- | 95+           | >480              | <0.07           |
| d-LIMONENE                           | 95+           | >480              | <0.01           |
| EPICHLOROHYDRIN                      | 95+           | >480              | <0.014          |
| ETHANOLAMINE                         | 95+           | >480              | <0.1            |
| ETHYL ACETATE                        | 95+           | >480              | <0.001          |

| Chemical Name               | Concentration          | Breakthrough Time | Permeation Rate |
|-----------------------------|------------------------|-------------------|-----------------|
| ETHYL ACRYLATE              | 95+                    | 14                | 91              |
| ETHYL BENZENE               | 95+                    | >480              | <0.001          |
| ETHYL CELLOSOLVE ACETATE    | 95+                    | >480              | <0.002          |
| ETHYL ETHER                 | 95+                    | >480              | <0.001          |
| ETHYL PARATHION             | 95+                    | >480              | <0.01           |
| ETHYLENE DIBROMIDE          | 95+                    | >480              | <0.1            |
| ETHYLENE DICHLORIDE         | 95+                    | >480              | <0.002          |
| ETHYLENE GLYCOL             | 95+                    | >480              | <0.02           |
| ETHYLENE OXIDE GAS          | 95+                    | >480              | <0.01           |
| ETHYLENE OXIDE LIQUID       | 95+                    | >480              | <0.01           |
| ETHYLENEIMINE               | 95+                    | 59                | 0.56            |
| FLUOROBENZENE               | 95+                    | >480              | <0.1            |
| FLUOROSULFONIC ACID         | 95+                    | >480              | <0.1            |
| FLUOSILICIC ACID            | 95+                    | >480              | <0.1            |
| FORMALDEHYDE SOLUTION       | 37                     | >480              | <0.09           |
| FORMIC ACID                 | 95+                    | >480              | <0.01           |
| FURFURAL                    | 95+                    | >480              | <0.01           |
| GASOLINE                    | 95+                    | >480              | ND              |
| GASOLINE, UNLEADED          | 95+                    | >480              | <0.001          |
| GLUTARALDEHYDE              | 5                      | >480              | <0.1            |
| GLUTARALDEHYDE              | 50                     | >480              | <0.1            |
| GLYCOLIC ACID               | sat. solution in water | >480              | <0.1            |
| HEXACHLOROBUTADIENE 1,3-    | 95+                    | >480              | <0.01           |
| HEXAFLUOROISOBUTYLENE       | 95+                    | >480              | <0.01           |
| HEXAMETHYLDISILAZANE        | 95+                    | >480              | <0.02           |
| HEXAMETHYLENE DIISOCYANATE  | 95+                    | >480              | <0.01           |
| HEXANE n-                   | 95+                    | >480              | <0.001          |
| HYDRAZINE                   | 95+                    | >480              | <0.05           |
| HYDRAZINE HYDRATE           | 85                     | 440               | 0.06            |
| HYDRIODIC ACID              | 57                     | >480              | <0.1            |
| HYDROBROMIC ACID            | 95+                    | >480              | <0.1            |
| HYDROCHLORIC ACID           | 37                     | >480              | <0.02           |
| HYDROFLUORIC ACID           | 50                     | >480              | <0.02           |
| HYDROFLUORIC ACID (90°C)    | 92 (90°C)              | 67*               | 2.8             |
| HYDROGEN CHLORIDE           | 95+                    | >480              | <0.1            |
| HYDROGEN CYANIDE            | 95+                    | >480              | <0.1            |
| HYDROGEN CYANIDIE           | 95+                    | 105               | 1.7             |
| HYDROGEN FLUORIDE ANHYDROUS | 95+                    | 35                | 0.55            |
| HYDROGEN FLUORIDE GAS       | 95+                    | 135               | 6.7             |
| HYDROGEN PEROXIDE           | 70                     | >480              | <0.01           |
| HYDROGEN SELENIDE           | 95+                    | >480              | <0.01           |
| HYDROGEN SULFIDE            | 95+                    | >480              | <0.01           |

| Chemical Name               | Concentration        | Breakthrough Time | Permeation Rate |
|-----------------------------|----------------------|-------------------|-----------------|
| ISOPROPYLAMINE              | 95+                  | >480              | <0.01           |
| JP-4                        | 95+                  | >480              | <0.002          |
| JP-8 FUEL                   | 95+                  | >480              | <0.01           |
| LEWISITE (L) CHEMICAL AGENT | 95+                  | >720              | <0.060          |
| LINDANE                     | sat. sol. In Acetone | >480              | <0.06           |
| MALATHION                   | 95+                  | >480              | <0.1            |
| MALATHION (50% in METHANOL) | 50                   | >480              | <0.01           |
| m-CRESOL                    | 55                   | >480              | <0.09           |
| MERCURIC CHLORIDE           | sat.                 | >480*             | <0.1            |
| MERCURY                     | 95+                  | >480              | <0.0002         |
| METHACRYLIC ACID            | 95+                  | >480              | <0.01           |
| METHANOL                    | 95+                  | 157               | 0.81            |
| METHOMYL (LANNATE LV)       | 29                   | >480              | <0.1            |
| METHYL ACRYLATE             | 95+                  | >480              | <0.01           |
| METHYL BROMIDE              | 95+                  | >480              | <0.01           |
| METHYL CELLOSOLVE           | 95+                  | >480              | <0.01           |
| METHYL CELLOSOLVE           | 95+                  | >480              | <0.01           |
| METHYL CELLOSOLVE ACETATE   | 95+                  | >480              | <0.01           |
| METHYL CHLORIDE             | 95+                  | >480              | <0.001          |
| METHYL ETHYL KETONE         | 95+                  | >480              | <0.007          |
| METHYL ETHYL KETOXIME       | 95+                  | >480              | <0.1            |
| METHYL FLUORIDE             | 95+                  | >480              | <0.02           |
| METHYL HYDRAZINE            | 95+                  | >480              | <0.01           |
| METHYL IODIDE               | 95+                  | >480              | <0.01           |
| METHYL ISOCYANATE           | 95+                  | >480              | <0.013          |
| METHYL MERCAPTAN            | 95+                  | >480              | <0.001          |
| METHYL METHACRYLATE         | 95+                  | >480              | <0.02           |
| METHYL t-BUTYL ETHER        | 95+                  | >480              | <0.007          |
| METHYL TRICHLOROSILANE      | 95+                  | >480              | <0.1            |
| METHYLAMINE (GAS)           | 95+                  | 105               | 40              |
| METHYLAMINE (LIQUID)        | 40                   | 261               | 1.8             |
| METHYLAMINE (LIQUID)        | 50                   | 232               | 2.2             |
| METHYLENE DIANILINE         | 15                   | >480              | <0.1            |
| METHYLISOBUTYLKETONE        | 95+                  | >480              | 0.001           |
| MINERAL SPIRITS             | 95+                  | >480              | <0.01           |
| MORPHOLINE                  | 95+                  | >480              | <0.1            |
| MUSTARD (HD) CHEMICAL AGENT | 95+                  | >720              | <0.1000         |
| N,N-DIMETHYLANILINE         | 95+                  | >480              | <0.13           |
| n-BUTYL ACETATE             | 95+                  | >480              | <0.01           |
| NERVE (VX) CHEMICAL AGENT   | 95+                  | >720              | <0.0001         |
| NICOTINE                    | 95+                  | >480              | <0.1            |
| NITRIC ACID                 | 70                   | >480              | <0.1            |

| Chemical Name                | Concentration         | Breakthrough Time | Permeation Rate |
|------------------------------|-----------------------|-------------------|-----------------|
| NITROBENZENE                 | 95+                   | >480              | <0.005          |
| NITROGEN TETROXIDE           | 95+                   | 90                | >1.1            |
| NITROGEN TETROXIDE (0°C)     | 95+                   | >480              | 0.001           |
| NITROGEN TRIFLUORIDE         | 95+                   | >480              | <0.014          |
| NITROMETHANE                 | 95+                   | >480              | <0.01           |
| NITROUS OXIDE                | 95+                   | >480              | <0.018          |
| N-METHYL PYRROLIDONE         | 95+                   | >480              | <0.01           |
| o-CHLOROTOLUENE              | 95+                   | >480              | <0.0001         |
| OCTANE                       | 95+                   | >480              | <0.01           |
| OLEUM (40% free SO3)         | 40% free SO3          | >480              | <0.04           |
| OXALIC ACID                  | sat.                  | >480              | <0.1            |
| PCB                          | 50                    | >480              | <0.001          |
| p-CHLOROANILINE              | 95+                   | 344               | 9.4             |
| p-CHLOROPHENOL               | sat. sol. In Methanol | >480              | <0.013          |
| PENTACHLOROPHENOL            | 95+                   | >480              | <0.013          |
| PERCHLORIC ACID              | 70                    | >480              | <0.1            |
| PHENOL                       | 95+                   | >480              | <0.03           |
| PHOSGENE                     | 95+                   | >480              | <0.1            |
| PHOSPHINE                    | 95+                   | >480              | <0.01           |
| PHOSPHORIC ACID              | 85                    | >480              | <0.1            |
| PHOSPHOROUS OXYCHLORIDE      | 95+                   | >480              | <0.1            |
| PHOSPHOROUS TRICHLORIDE      | 95+                   | >480              | <0.1            |
| POTASSIUM HYDROXIDE          | 45 & 99               | >480              | <0.008          |
| PROPYLENE OXIDE              | 95+                   | >480              | <0.002          |
| PYRIDINE                     | 95+                   | >480              | <0.01           |
| SARIN (GB) CHEMICAL AGENT    | 95+                   | >720              | <0.0001         |
| SILANE                       | 95+                   | >480              | <0.1            |
| SILICON TETRACHLORIDE        | 95+                   | >480              | <0.1            |
| SODIUM CYANIDE               | 95+                   | >480              | <0.33           |
| SODIUM HYDROSULFIDE          | 95+                   | 51                | 18.4            |
| SODIUM HYDROXIDE             | 50                    | >480              | <0.1            |
| SOMAN (GD) CHEMICAL AGENT    | 95+                   | >720              | <0.0001         |
| STODDARD SOLVENT             | 95+                   | >480              | <0.001          |
| STYRENE                      | 95+                   | >480              | <0.001          |
| SULFUR DICHLORIDE            | 80                    | 70                | 6               |
| SULFUR DIOXIDE               | 95+                   | >480              | <0.1            |
| SULFUR HEXAFLUORIDE          | 95+                   | >480              | <0.015          |
| SULFUR MONOCHLORIDE          | 95+                   | >480              | <0.01           |
| SULFURIC ACID                | 95+                   | >480              | <0.1            |
| SULFURYL CHLORIDE            | 95+                   | >480              | <0.1            |
| TABUN (GA) CHEMICAL AGENT    | 95+                   | >720              | <0.0001         |
| TETRACHLOROETHYLENE 1,1,2,2- | 95+                   | >480              | <0.001          |

| Chemical Name            | Concentration | Breakthrough Time | Permeation Rate |
|--------------------------|---------------|-------------------|-----------------|
| TETRAETHYLLEAD           | 95+           | >480              | <0.01           |
| TETRAFLUOROMETHANE       | 95+           | >480              | <0.0177         |
| TETRAHYDROFURAN          | 95+           | >480              | <0.001          |
| THIOGLYCOLIC ACID        | 95+           | >480              | <0.1            |
| THIONYL CHLORIDE         | 95+           | 35                | 2500            |
| TITANIUM TETRACHLORIDE   | 95+           | >480              | <0.1            |
| TOLUENE                  | 95+           | >480              | <0.004          |
| TOLUENE 1,3-DIISOCYANATE | 95+           | >480              | <0.01           |
| TOLUENE DIISOCYANATE     | 95+           | >480              | <0.5            |
| TOLUIDINE O-             | 95+           | >480              | <0.001          |
| TRICHLOROETHANE 1,1,1-   | 95+           | >480              | <0.01           |
| TRICHLOROETHYLENE        | 95+           | >480              | <0.022          |
| TRICHLOROETHYLENE        | 95+           | >480              | <0.1            |
| TRIETHYLAMINE            | 95+           | >480              | <0.1            |
| TRIFLUOROMETHANE         | 95+           | >480              | <0.014          |
| TRIMETHYLPHOSPHITE       | 95+           | >480              | <0.1            |
| TUNGSTEN HEXAFLUORIDE    | 95+           | >480              | <0.026          |
| VINYL CHLORIDE           | 95+           | >480              | <0.001          |
| XYLENES                  | 95+           | >480              | <0.004          |