

# CHEMICAL RESISTANCE

## RESISTANCE RATING

|          |                       |  |
|----------|-----------------------|--|
| <b>A</b> | Good Resistance:      | Usually suitable for service.  |
| <b>B</b> | Fair Resistance:      | Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service. |
| <b>C</b> | Depends on Condition: | Moderate service may be possible if chemical exposure is limited or infrequent.                    |
| <b>D</b> | Not Recommended:      | Unsuitable for service.  |

|                              | Natural Rubber           | SBR | Butyl | Nitrile | Neoprene | Hypalon® | EPDM | FKM / Viton® | X-Linked Polyethylene | Modified X-Link | UHMWPE | FEP / Teflon® |
|------------------------------|--------------------------|-----|-------|---------|----------|----------|------|--------------|-----------------------|-----------------|--------|---------------|
| Dilauryl Ether               | D                        | D   | D     | C       | D        | C        | D    | C            | A                     | B               | A      | A             |
| Dimethylamine                | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |
| Dimethyl Benzene             | D                        | D   | D     | D       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Dimethylaniline              | D                        | D   | D     | D       | D        | D        | C    | D            | B                     | A               | B      | A             |
| Dimethylformamide (DMF)      | C                        | C   | C     | D       | C        | C        | C    | D            | A                     | A               | A      | A             |
| Dimethyl Ketone (Acetone)    | B                        | C   | A     | D       | C        | C        | A    | D            | A                     | A               | A      | A             |
| Dimethyl Phthalate           | D                        | D   | A     | D       | D        | D        | B    | C            | A                     | A               | A      | A             |
| Dimethyl Sulfate             | D                        | D   | B     | D       | D        | D        | D    | D            | A                     | A               | A      | A             |
| Dimethyl Sulfide             | D                        | D   | C     | D       | D        | D        | D    | C            | B                     | A               | B      | A             |
| Dinitrobenzene               | D                        | D   | C     | D       | C        | D        | C    | A            | A                     | B               | A      | A             |
| Dinitrotoluene               | D                        | D   | D     | D       | D        | D        | D    | B            | A                     | A               | A      | A             |
| Diocetyl Adipate (DOA)       | D                        | D   | A     | D       | D        | D        | B    | C            | A                     | A               | A      | A             |
| Diocetylamine                | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |
| Diocetyl Phthalate (DOP)     | D                        | D   | B     | D       | D        | D        | B    | B            | A                     | A               | A      | A             |
| Diocetyl Sebacate (DOS)      | D                        | D   | B     | D       | D        | D        | B    | B            | A                     | A               | A      | A             |
| Dioxane                      | D                        | D   | B     | D       | D        | D        | B    | D            | -                     | -               | -      | A             |
| Dioxolane                    | D                        | D   | C     | D       | D        | D        | B    | C            | A                     | B               | A      | A             |
| Dipentene (Limonene)         | D                        | D   | D     | C       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Diphenyl (Biphenyl)          | D                        | D   | D     | D       | D        | D        | D    | A            | A                     | -               | A      | -             |
| Dipropyl Ketone              | D                        | D   | B     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| Disodium Phosphate           | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Divinyl Benzene              | D                        | D   | D     | D       | D        | D        | D    | A            | A                     | B               | A      | A             |
| D.M.P. (Dimethyl Phenols)    | D                        | D   | D     | D       | D        | D        | D    | D            | C                     | A               | C      | A             |
| Dodecyl Benzene              | D                        | D   | D     | D       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Diphenyl Oxide (Phenylether) | D                        | D   | D     | D       | D        | C        | D    | A            | A                     | -               | A      | -             |
| Dipropylamine                | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |
| Dipropylene Glycol           | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Dodecyl Toluene              | D                        | D   | D     | D       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Dowfume W 40, 100%           | D                        | D   | D     | D       | C        | C        | C    | C            | B                     | -               | B      | -             |
| Dow-Per (Perchloroethylene)  | D                        | D   | D     | C       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Dowtherm Oil, A & E          | D                        | D   | D     | D       | D        | C        | D    | A            | A                     | A               | A      | A             |
| Dowtherm S.R.I.              | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Dry Cleaning Fluids          | D                        | D   | D     | C       | D        | D        | D    | A            | B                     | -               | B      | -             |
| Epichlorohydrin              | D                        | D   | C     | D       | D        | C        | B    | D            | B                     | B               | B      | A             |
| Ethanol (Ethyl Alcohol)      | A                        | A   | A     | A       | A        | A        | A    | C            | A                     | A               | A      | A             |
| Ethanolamine                 | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |
| Ethers                       | C                        | C   | C     | C       | C        | B        | D    | D            | A                     | A               | B      | A             |
| Ethyl Acetate                | B                        | D   | B     | D       | D        | D        | A    | D            | A                     | A               | B      | A             |
| Ethyl Acetoacetate           | D                        | D   | B     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| Ethyl Acrylate               | D                        | D   | C     | D       | D        | D        | D    | D            | B                     | B               | B      | A             |
| Ethyl Benzene                | D                        | D   | D     | C       | D        | D        | D    | A            | A                     | B               | A      | A             |
| Ethyl Benzoate               | D                        | D   | B     | B       | C        | C        | B    | C            | A                     | -               | A      | -             |
| Ethyl Butyl Alcohol          | A                        | A   | A     | A       | A        | A        | A    | B            | A                     | A               | A      | A             |
| Ethyl Butyl Amine            | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |

|  | Natural Rubber           | SBR | Butyl | Nitrile | Neoprene | Hypalon® | EPDM | FKM / Viton® | X-Linked Polyethylene | Modified X-Link | UHMWPE | FEP / Teflon® |
|--|--------------------------|-----|-------|---------|----------|----------|------|--------------|-----------------------|-----------------|--------|---------------|
| Ethyl Butyl Ketone                       | D                        | D   | B     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| Ethyl Cellulose                          | B                        | B   | B     | B       | B        | B        | B    | D            | A                     | A               | A      | A             |
| Ethyl Chloride                           | A                        | B   | A     | D       | B        | B        | A    | B            | B                     | B               | C      | A             |
| Ethyl Dichloride                         | D                        | D   | D     | D       | D        | D        | D    | B            | B                     | B               | B      | A             |
| Ethylene                                 | D                        | D   | D     | A       | B        | C        | D    | A            | A                     |                 |        |               |
| Ethylene Bromide                         | D                        | D   | D     | D       | D        | D        | D    | A            | B                     | B               | B      | A             |
| Ethylene Chloride                        | D                        | D   | D     | D       | D        | D        | D    | A            | B                     | B               | B      | A             |
| Ethylene Diamine                         | TITAN HOSE NOT AVAILABLE |     |       |         |          |          |      |              |                       |                 |        |               |
| Ethylene Dibromide                       | D                        | D   | D     | D       | D        | D        | D    | B            | B                     | B               | B      | A             |
| Ethylene Dichloride                      | D                        | D   | D     | D       | D        | D        | D    | B            | B                     | A               | B      | A             |
| Ethylene Glycol                          | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ethylene Oxide                           | D                        | D   | C     | D       | D        | D        | C    | D            | C                     | -               | C      | A             |
| Ethylene Trichloride (Trichloroethylene) | D                        | D   | D     | C       | D        | D        | D    | A            | B                     | B               | B      | A             |
| Ethyl Ether                              | D                        | D   | D     | C       | D        | D        | D    | A            | B                     | D               | A      |               |
| Ethyl Formate                            | D                        | D   | B     | D       | D        | D        | C    | D            | A                     | A               | A      | A             |
| Ethyl Hexanol                            | A                        | A   | A     | A       | A        | A        | A    | B            | A                     | A               | A      | A             |
| Ethyl Methyl Ketone                      | C                        | D   | B     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| Ethyl Oxalate                            | A                        | A   | A     | D       | D        | D        | B    | C            | A                     | A               | A      | A             |
| Ethyl Phthalate                          | D                        | D   | A     | D       | D        | D        | B    | C            | A                     | A               | A      | A             |
| Ethyl Propyl Ether                       | D                        | D   | D     | D       | D        | D        | D    | C            | A                     | A               | A      | -             |
| Ethyl Propyl Ketone                      | D                        | D   | B     | D       | D        | D        | B    | D            | A                     | B               | A      | A             |
| Ethyl Silicate                           | C                        | C   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ethyl Sulfate                            | D                        | D   | B     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| EX TRI (Trichlorethylene)                | D                        | D   | D     | C       | D        | D        | D    | A            | B                     | B               | B      | A             |
| Fatty Acids                              | D                        | D   | D     | B       | B        | B        | C    | A            | A                     | B               | A      | A             |
| Ferric Bromide                           | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ferric Chloride                          | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ferric Nitrate                           | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ferric Sulfate                           | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ferrous Acetate                          | D                        | D   | A     | D       | D        | D        | B    | D            | A                     | A               | A      | A             |
| Ferrous Ammonium Sulfate                 | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | -               | A      | -             |
| Ferrous Chloride                         | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Ferrous Hydroxide                        | B                        | C   | A     | B       | A        | B        | A    | C            | A                     | A               | A      | A             |
| Ferrous Sulfate                          | A                        | A   | A     | A       | A        | A        | A    | A            | A                     | A               | A      | A             |
| Fish Oil                                 | D                        | D   | A     | A       | A        | A        | D    | A            | A                     | -               | A      | A             |
| Fluoroboric Acid                         | A                        | C   | A     | A       | B        | A        | A    | C            | A                     | A               | A      | A             |
| Fluorine                                 | D                        | D   | D     | D       | D        | D        | D    | D            | D                     | D               | D      | B             |
| Fluosilic Acid                           | B                        | B   | A     | B       | B        | A        | B    | A            | A                     | A               | A      | A             |
| Formaldehyde (Formalin)                  | A                        | A   | A     | A       | C        | A        | A    | A            | A                     | A               | A      | A             |
| Formamide                                | A                        | A   | A     | A       | A        | A        | A    | D            | A                     | A               | A      | A             |
| Formic Acid                              | -                        | -   | A     | B       | C        | A        | A    | D            | B                     | A               | A      | A             |
| Freon 11                                 | B                        | D   | D     | A       | B        | A        | D    | A            | A                     | -               | A      | -             |
| Freon 12                                 | D                        | D   | D     | B       | C        | D        | C    | B            | B                     | D               | B      | -             |

These charts are offered as a guideline only. If there is any question about the resistance of a listed elastomer, please



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