

# Chemical Compatibility Chart

|                                 | Nylon | PTFE | MCE | GF | PES | CA | PVDF |
|---------------------------------|-------|------|-----|----|-----|----|------|
| <b>ACIDS</b>                    |       |      |     |    |     |    |      |
| Acetic, Glacial                 | L     | R    | N   | R  | R   | N  | R    |
| Acetic, 25%                     | R     | R    | N   | R  | R   | R  | R    |
| Hydrochloric, Concentrated      | N     | R    | N   | R  | R   | N  | R    |
| Hydrochloric, 25%               | N     | R    | N   | R  | R   | N  | R    |
| Sulphuric, Concentrated         | N     | R    | N   | R  | N   | N  | N    |
| Sulphuric, 25%                  | N     | R    | R   | R  | R   | R  | R    |
| Nitric, Concentrated            | N     | R    | N   | L  | N   | N  | R    |
| Nitric, 25%                     | N     | R    | R   | L  | R   | N  | R    |
| Phosphoric, 25%                 | N     | R    | T   | T  | T   | R  | T    |
| Formic, 25%                     | N     | R    | T   | R  | T   | L  | T    |
| Trichloroacetic, 25%            | N     | R    | T   | T  | T   | R  | T    |
| <b>ALOHOLS</b>                  |       |      |     |    |     |    |      |
| Methanol, 98%                   | R     | R    | N   | R  | R   | R  | R    |
| Ethanol, 98%                    | R     | R    | L   | R  | R   | R  | R    |
| Ethanol, 70%                    | L     | R    | R   | R  | R   | R  | R    |
| Isopropanol                     | R     | R    | L   | R  | R   | R  | R    |
| n-Propanol                      | R     | R    | L   | R  | R   | R  | R    |
| Amyl Alcohol, Butanol           | R     | R    | N   | R  | R   | R  | R    |
| Benzyl Alcohol                  | R     | R    | R   | T  | R   | L  | R    |
| Ethylene Glycol                 | R     | R    | L   | R  | R   | R  | R    |
| Propylene Glycol                | R     | R    | L   | R  | R   | L  | R    |
| Glycerol                        | R     | R    | R   | R  | R   | R  | R    |
| <b>BASES</b>                    |       |      |     |    |     |    |      |
| Ammonium Hydroxide, 25%         | R     | R    | N   | R  | R   | R  | L    |
| Sodium Hydroxide, 25%           | R     | R    | N   | R  | R   | T  | R    |
| <b>HYDROCARBONS</b>             |       |      |     |    |     |    |      |
| Hexane, Xylene                  | R     | R    | R   | R  | N   | R  | L    |
| Toluene, Benzene                | R     | R    | R   | R  | N   | T  | R    |
| Kerosene, Gasoline              | R     | R    | R   | T  | L   | R  | L    |
| Tetralin, Decalin               | T     | R    | N   | T  | T   | T  | R    |
| Hexane, Xylene                  | R     | R    | R   | R  | X   | R  | L    |
| <b>HALOGENATED HYDROCARBONS</b> |       |      |     |    |     |    |      |
| Methylene Chloride              | L     | R    | N   | R  | N   | N  | R    |
| Chloroform                      | R     | R    | R   | R  | N   | N  | R    |

|                               | Nylon | PTFE | MCE | GF | PES | CA | PVDF |
|-------------------------------|-------|------|-----|----|-----|----|------|
| Trichloroethylene             | R     | R    | R   | R  | N   | R  | R    |
| Monochlorobenzene             | R     | R    | N   | R  | L   | R  | R    |
| Freon                         | R     | R    | R   | R  | L   | R  | R    |
| Carbon Tetrachloride          | R     | R    | R   | R  | N   | L  | R    |
| <b>KETONES</b>                |       |      |     |    |     |    |      |
| Acetone                       | R     | R    | N   | R  | N   | N  | N    |
| Cyclohexanone                 | R     | R    | N   | R  | N   | N  | N    |
| Methyl Ethyl Ketone           | R     | R    | N   | R  | N   | L  | L    |
| Isopropylacetone              | R     | R    | N   | R  | N   | R  | N    |
| Methyl Isobutyl Ketone        | T     | R    | N   | R  | N   | T  | L    |
| <b>OXIDES--ETHERS</b>         |       |      |     |    |     |    |      |
| Ethyl Ether                   | R     | R    | L   | R  | R   | R  | R    |
| Dioxane                       | R     | R    | N   | R  | N   | N  | L    |
| Tetrahydrofuran               | R     | R    | N   | R  | N   | N  | L    |
| Triethanolamine               | R     | R    | L   | R  | T   | R  | T    |
| Dimethylsulfoxide (DMSO)      | R     | R    | N   | R  | N   | N  | N    |
| Isopropyl Ether               | T     | R    | N   | R  | R   | R  | R    |
| <b>SOLVENTS WITH NITROGEN</b> |       |      |     |    |     |    |      |
| Dimethyl Formamide            | L     | R    | N   | R  | N   | N  | N    |
| Diethylacetamide              | R     | R    | N   | R  | T   | N  | T    |
| Triethanolamine               | R     | R    | L   | R  | T   | R  | T    |
| Aniline                       | T     | R    | N   | R  | T   | N  | T    |
| Pyridine                      | R     | R    | N   | R  | X   | N  | R    |
| Acetonitrile                  | R     | R    | N   | R  | L   | N  | L    |
| <b>MISC</b>                   |       |      |     |    |     |    |      |
| Phenol, Aqueous, 10%          | T     | R    | R   | R  | N   | N  | L    |
| Formaldehyde Solution, 30%    | R     | R    | R   | R  | R   | R  | R    |
| Hydrogen Peroxide, 30%        | R     | R    | R   | R  | T   | R  | T    |
| Silicone Oil & Mineral Oil    | T     | R    | R   | R  | R   | R  | R    |

R= Recommended, N= Not Recommended, T= Test,  
L= Limited Resistance (Testing before use is recommended)  
PTFE=Polytetrafluoroethylene, MCE=Mixed Cellulose Ester,  
GF=Glass Fiber, PES=Polyethersulfone,  
CA=Cellulose Acetate, PVDF=Polyvinylidene Fluoride