



# Fluid Compatibility Table

These are general guidelines only and users must conduct their own functional tests to determine the suitability of any compound for their particular application.

R = Recommended

M = Marginal

U = Unsatisfactory

X = Insufficient Data

| Fluid              | Nitrile | SBR | EPDM | Neoprene | Polyacrylate | Polyurethane | Silicone | Fluorocarbon |
|--------------------|---------|-----|------|----------|--------------|--------------|----------|--------------|
| Acetaldehyde       | U       | U   | R    | U        | U            | U            | R        | U            |
| Acetamide          | R       | U   | R    | R        | U            | U            | M        | U            |
| Acetic Acid        | M       | M   | R    | R        | U            | U            | R        | U            |
| Acetone            | U       | M   | R    | M        | U            | U            | M        | U            |
| Acetophenone       | U       | U   | R    | U        | U            | U            | U        | U            |
| Acetylene          | R       | R   | R    | R        | X            | X            | R        | R            |
| Ammonia            | R       | R   | R    | R        | U            | X            | R        | U            |
| Ammonium Hydroxide | R       | R   | R    | R        | U            | U            | R        | R            |
| Amyl Acetate       | U       | U   | M    | U        | U            | U            | U        | U            |
| Anderol L-774      | M       | U   | U    | U        | R            | U            | U        | R            |
| Antifreeze         | R       | R   | R    | R        | U            | U            | R        | R            |
| Aniline            | U       | U   | R    | U        | U            | U            | U        | M            |
| Ansul Ether        | M       | U   | M    | U        | U            | R            | U        | U            |
| Aroclors           | M       | U   | R    | U        | U            | X            | M        | R            |
| Askarel            | R       | U   | U    | U        | U            | U            | U        | R            |
| ASTM #1            | R       | U   | U    | R        | R            | R            | R        | R            |
| ASTM #3            | R       | U   | U    | U        | R            | R            | U        | R            |
| ASTM Fuel A        | R       | U   | U    | R        | R            | R            | U        | R            |
| ASTM Fuel B        | R       | U   | U    | U        | U            | R            | U        | R            |
| ASTM Fuel C        | R       | U   | U    | U        | U            | R            | U        | R            |
| ASTM Fuel D        | M       | U   | U    | U        | U            | R            | U        | R            |
| Auto. Trans. Fluid | R       | U   | U    | M        | R            | R            | M        | R            |
| Beer               | R       | R   | R    | R        | U            | U            | R        | R            |
| Benzaldehyde       | U       | U   | R    | U        | U            | U            | U        | U            |
| Benzene            | U       | U   | U    | U        | U            | U            | U        | R            |

| Fluid                          | Nitrile | SBR | EPDM | Neoprene | Polyacrylate | Polyurethane | Silicone | Fluorocarbon |
|--------------------------------|---------|-----|------|----------|--------------|--------------|----------|--------------|
| Benzine                        | R       | U   | U    | R        | R            | R            | U        | R            |
| Benzoic Acid                   | U       | U   | U    | U        | U            | U            | U        | R            |
| Benzophenone                   | U       | U   | R    | X        | U            | U            | U        | R            |
| Benzi Alcohol                  | U       | U   | U    | R        | U            | U            | X        | R            |
| Bleach                         | R       | R   | R    | R        | U            | U            | U        | R            |
| Borax                          | R       | R   | R    | U        | R            | R            | R        | R            |
| Boric Acid                     | R       | R   | R    | R        | U            | R            | R        | R            |
| Brake Fluid<br>(Non Petroleum) | U       | R   | R    | M        | U            | U            | M        | U            |
| Bromine                        | U       | U   | U    | U        | U            | U            | U        | R            |
| Bromobenzene                   | U       | U   | U    | U        | U            | U            | U        | R            |
| Bunker Oil                     | R       | U   | U    | U        | R            | R            | U        | R            |
| Butane                         | R       | M   | U    | R        | R            | U            | U        | R            |
| Butter                         | R       | U   | M    | R        | R            | R            | R        | R            |
| Butyl Acetate                  | U       | U   | U    | U        | U            | U            | U        | U            |
| Butyl Alcohol                  | R       | R   | R    | R        | U            | U            | R        | R            |
| Butyl Amine                    | M       | U   | U    | U        | U            | U            | R        | U            |
| Butyl Carbitol                 | U       | U   | R    | M        | U            | X            | U        | M            |
| Butyl Cellosolve               | M       | U   | R    | M        | U            | U            | R        | U            |
| Butyraldehyde                  | U       | U   | R    | U        | U            | U            | U        | U            |
| Carbitol                       | R       | R   | R    | R        | U            | U            | R        | R            |
| Carbitol Acetate               | U       | U   | U    | U        | U            | U            | U        | R            |
| Carbon<br>Disulfide            | U       | U   | U    | U        | U            | X            | U        | R            |
| Carbon<br>Tetrachloride        | R       | U   | U    | U        | U            | U            | U        | R            |
| Carbonic Acid                  | R       | R   | R    | R        | R            | R            | R        | R            |
| Castor Oil                     | R       | R   | R    | R        | R            | R            | R        | R            |
| Cellosolve                     | U       | R   | U    | U        | U            | U            | U        | U            |
| Chassis Grease                 | R       | U   | U    | M        | R            | X            | U        | R            |
| Chloracetic Acid               | U       | U   | R    | U        | U            | U            | X        | U            |
| Chloracetone                   | U       | U   | R    | M        | X            | X            | U        | R            |
| Chlordane                      | R       | U   | U    | M        | X            | X            | U        | R            |
| Chlorine                       | U       | U   | R    | U        | U            | U            | X        | R            |
| Chlorobenzol                   | U       | U   | U    | U        | U            | U            | U        | R            |
| Chloroform                     | U       | U   | U    | U        | U            | U            | U        | R            |
| Chlorsulfonic<br>Acid          | U       | U   | U    | U        | U            | U            | U        | U            |
| Chrome Plating<br>Solu.        | U       | U   | R    | U        | U            | U            | R        | R            |
| Chromic Acid                   | U       | U   | X    | U        | X            | X            | M        | R            |
| Citric Acid                    | R       | R   | R    | R        | X            | X            | R        | R            |
| Cod Liver Oil                  | R       | U   | U    | R        | R            | U            | R        | R            |
| Coffee                         | R       | R   | R    | R        | U            | U            | R        | R            |
| Corn Oil                       | R       | U   | U    | U        | R            | U            | R        | R            |
|                                |         |     |      |          |              |              |          |              |

| <b>Fluid</b>           | <b>Nitrile</b> | <b>SBR</b> | <b>EPDM</b> | <b>Neoprene</b> | <b>Polyacrylate</b> | <b>Polyurethane</b> | <b>Silicone</b> | <b>Fluorocarbon</b> |
|------------------------|----------------|------------|-------------|-----------------|---------------------|---------------------|-----------------|---------------------|
| Creosote               | R              | U          | U           | R               | R                   | M                   | U               | R                   |
| Creosote Oil           | R              | U          | U           | M               | X                   | X                   | M               | R                   |
| Creosylic Acid         | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Crude Oil              | R              | U          | U           | U               | R                   | X                   | U               | R                   |
| Cyclohexane            | R              | U          | U           | M               | R                   | R                   | U               | R                   |
| Cyclohexanol           | R              | U          | U           | R               | X                   | X                   | U               | R                   |
| Decalin                | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Denatured Alcohol      | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Diacetone              | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Dibutyl Amine          | U              | U          | U           | M               | U                   | U                   | U               | U                   |
| Dibutyl Phthalate      | U              | U          | R           | U               | U                   | X                   | X               | M                   |
| Dichlorp Aniline       | U              | U          | U           | U               | U                   | U                   | U               | M                   |
| Dichloro Butane        | R              | U          | U           | U               | U                   | U                   | U               | R                   |
| Diesel Oil             | R              | U          | U           | M               | U                   | U                   | U               | R                   |
| Diethylamine           | R              | R          | R           | R               | U                   | M                   | R               | U                   |
| Diethyl Benzene        | M              | U          | U           | U               | X                   | X                   | X               | R                   |
| Diethylene Glycol      | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Dimethyl Ether         | U              | U          | U           | M               | M                   | R                   | U               | U                   |
| Dimethyl Formamide     | U              | X          | R           | X               | X                   | X                   | R               | U                   |
| Dimethyl Phthalate     | U              | U          | R           | U               | U                   | X                   | X               | R                   |
| Dimethyl Terephthalate | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Diocetyl Phthalate     | U              | U          | R           | U               | U                   | U                   | M               | R                   |
| Dioxane                | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Diphenyl               | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Dow Corning 550        | R              | R          | R           | R               | R                   | R                   | R               | R                   |
| Dow Gard               | R              | R          | R           | R               | M                   | M                   | R               | R                   |
| Dowtherm A&E           | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Elco 28                | R              | U          | U           | M               | R                   | R                   | R               | R                   |
| Epoxy Resins           | X              | X          | R           | R               | X                   | X                   | X               | U                   |
| Ethane                 | R              | U          | U           | R               | R                   | M                   | U               | R                   |
| Ethanol                | R              | R          | R           | R               | U                   | R                   | R               | R                   |
| Ethanolamine           | R              | R          | R           | R               | U                   | R                   | R               | R                   |
| Ethyl Acetate          | U              | U          | R           | U               | U                   | U                   | R               | U                   |
| Ethyl Benzene          | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Ethyl Cellulose        | R              | R          | R           | R               | U                   | R                   | R               | U                   |

| Fluid              | Nitrile | SBR | EPDM | Neoprene | Polyacrylate | Polyurethane | Silicone | Fluorocarbon |
|--------------------|---------|-----|------|----------|--------------|--------------|----------|--------------|
| Ethyl Chloride     | R       | R   | R    | R        | M            | R            | U        | R            |
| Ethyl Ether        | M       | U   | M    | U        | U            | R            | U        | U            |
| Ethyl Formate      | U       | U   | R    | R        | X            | X            | X        | R            |
| Ethyl Hexanol      | M       | R   | R    | R        | X            | X            | X        | R            |
| Ethyl Merlaptan    | U       | U   | X    | M        | X            | X            | M        | R            |
| Ethylene Chloride  | U       | U   | U    | U        | U            | U            | U        | R            |
| Ethylene Oxide     | U       | U   | R    | U        | U            | U            | U        | U            |
| Formaldehyde       | M       | M   | R    | M        | U            | U            | R        | U            |
| Formic Acid        | M       | R   | R    | R        | X            | X            | M        | U            |
| Freon 12           | R       | R   | R    | R        | X            | R            | U        | R            |
| Fuel Oil           | R       | U   | U    | R        | R            | U            | U        | R            |
| Furan              | U       | U   | X    | U        | U            | X            | X        | X            |
| Furfural           | U       | U   | R    | U        | U            | X            | U        | U            |
| Furfuryl Alcohol   | U       | U   | R    | U        | U            | U            | U        | X            |
| Fyrquel            | U       | U   | R    | U        | U            | U            | R        | R            |
| Gallic Acid        | R       | R   | R    | R        | U            | U            | X        | R            |
| Gasoline           | R       | U   | U    | R        | R            | R            | U        | R            |
| Gelatin            | R       | R   | R    | R        | U            | U            | R        | R            |
| Glucose            | R       | R   | R    | R        | X            | U            | R        | R            |
| Glycerin           | R       | R   | R    | R        | U            | U            | R        | R            |
| Heptane            | R       | U   | U    | R        | R            | R            | U        | R            |
| Hexaldehyde        | U       | U   | R    | R        | X            | X            | R        | U            |
| Hexane             | R       | U   | U    | R        | R            | R            | U        | R            |
| Hexanol            | R       | R   | M    | R        | U            | U            | R        | R            |
| Home Heating Oil   | R       | U   | U    | M        | R            | R            | R        | R            |
| Hydrazine          | R       | R   | R    | R        | X            | X            | R        | X            |
| Hydrochloride Acid | R       | M   | R    | R        | M            | U            | U        | R            |
| Hydrocyanic Acid   | R       | R   | R    | R        | U            | X            | M        | R            |
| Hydrogen Peroxide  | R       | R   | R    | R        | U            | X            | R        | R            |
| Hydrogen Sulfide   | U       | U   | R    | R        | U            | X            | M        | U            |
| Hydroquinone       | M       | U   | U    | U        | U            | X            | X        | R            |
| Hypoid Gear Lube   | R       | U   | U    | M        | R            | R            | M        | R            |
| Iodine             | R       | R   | R    | U        | X            | X            | X        | R            |
| Isocyanate         | X       | X   | X    | X        | X            | X            | X        | R            |
| Iso Octane         | R       | U   | U    | R        | R            | R            | U        | R            |

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|---------------------|----------------|------------|-------------|-----------------|---------------------|---------------------|-----------------|---------------------|
| Iso Phorone         | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Isocyanate          | X              | X          | X           | X               | X                   | X                   | X               | R                   |
| Isopar              | R              | X          | U           | R               | R                   | R                   | U               | R                   |
| Isopropanol         | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Isopropyl Acetate   | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| JP-4 (MIL-J-5624)   | R              | U          | U           | U               | R                   | R                   | U               | R                   |
| Kerosene            | R              | U          | U           | R               | R                   | R                   | U               | R                   |
| Lacquers            | U              | U          | U           | U               | U                   | U                   | U               | U                   |
| Lactic Acid         | R              | R          | R           | R               | U                   | X                   | X               | R                   |
| Lard                | R              | U          | R           | R               | R                   | R                   | R               | R                   |
| Linoleic Acid       | R              | U          | U           | R               | X                   | X                   | R               | R                   |
| Linseed Oil         | R              | U          | M           | M               | R                   | X                   | R               | R                   |
| Lye Solutions       | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Malathion           | R              | U          | U           | X               | X                   | X                   | U               | R                   |
| Maleic Acid         | U              | U          | U           | U               | U                   | X                   | X               | R                   |
| Mercury             | R              | R          | R           | R               | X                   | X                   | X               | R                   |
| Meter-Cresol        | U              | U          | U           | R               | U                   | U                   | U               | R                   |
| Methacrylic Acid    | U              | U          | R           | R               | U                   | U                   | U               | M                   |
| Methane             | R              | U          | U           | R               | R                   | M                   | U               | R                   |
| Methanol            | R              | R          | R           | R               | U                   | U                   | U               | U                   |
| Methyl Acetate      | U              | U          | R           | R               | U                   | U                   | U               | U                   |
| Methyl Cellosolve   | M              | U          | R           | R               | U                   | U                   | U               | M                   |
| Methyl Ether Ketone | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Methyl Mercaptan    | X              | X          | R           | X               | X                   | X                   | X               | X                   |
| Methylene Chloride  | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Milk                | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Mineral Oil         | R              | U          | M           | R               | R                   | R                   | R               | R                   |
| Mineral Spirits     | R              | U          | U           | U               | R                   | R                   | U               | R                   |
| Monovinyl Acetylene | R              | R          | R           | R               | X                   | X                   | R               | R                   |
| Mustard             | X              | R          | R           | X               | X                   | X                   | R               | R                   |
| Naphtha             | R              | U          | U           | U               | R                   | R                   | U               | R                   |
| Naphthalene         | U              | U          | U           | U               | X                   | X                   | U               | R                   |
| Naphthenic Acid     | R              | U          | U           | U               | X                   | X                   | U               | R                   |
| Natural Gas         | R              | R          | U           | R               | R                   | R                   | R               | R                   |
| Neatsfoot Oil       | R              | U          | R           | U               | R                   | R                   | R               | R                   |

| <b>Fluid</b>        | <b>Nitrile</b> | <b>SBR</b> | <b>EPDM</b> | <b>Neoprene</b> | <b>Polyacrylate</b> | <b>Polyurethane</b> | <b>Silicone</b> | <b>Fluorocarbon</b> |
|---------------------|----------------|------------|-------------|-----------------|---------------------|---------------------|-----------------|---------------------|
| Nitric Acid         | U              | M          | R           | U               | U                   | U                   | U               | M                   |
| Nitrobenzene        | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Nitropropane        | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Octane              | R              | U          | U           | U               | U                   | U                   | U               | R                   |
| Octanol             | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Oleic Acid          | M              | U          | U           | M               | X                   | X                   | U               | R                   |
| Oleum               | R              | U          | U           | M               | X                   | X                   | U               | R                   |
| Oronite 8200        | R              | U          | U           | R               | X                   | R                   | U               | R                   |
| Oxalic Acid         | R              | R          | R           | R               | R                   | X                   | X               | R                   |
| Peanut Oil          | R              | U          | M           | M               | R                   | X                   | R               | R                   |
| Pentane             | R              | M          | U           | R               | R                   | U                   | U               | R                   |
| Perchlorethylene    | R              | U          | U           | U               | U                   | U                   | U               | R                   |
| Petroleum Ether     | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Phenol              | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Phenylhydrazine     | U              | M          | U           | U               | U                   | X                   | X               | R                   |
| Phosphoric Acid     | R              | R          | R           | R               | M                   | U                   | R               | R                   |
| Pine Oil            | R              | U          | U           | U               | U                   | X                   | X               | R                   |
| Potassium Hydroxide | R              | R          | R           | R               | U                   | U                   | M               | U                   |
| Propane             | R              | U          | U           | R               | R                   | M                   | U               | R                   |
| Propanol            | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Propyl Acetate      | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Pydraul             | U              | U          | R           | U               | U                   | U                   | U               | R                   |
| Pyranol             | R              | U          | U           | R               | R                   | R                   | U               | R                   |
| Pyridine            | U              | R          | U           | U               | U                   | X                   | U               | U                   |
| Rapeseed Oil        | R              | U          | R           | R               | R                   | R                   | U               | R                   |
| Resurcinol          | X              | R          | R           | X               | X                   | X                   | X               | X                   |
| SAE 10W30           | R              | U          | U           | M               | R                   | R                   | R               | R                   |
| Seawater            | R              | R          | R           | R               | U                   | U                   | R               | X                   |
| Silicone Grease     | R              | R          | R           | R               | R                   | R                   | R               | R                   |
| Silver Nitrate      | R              | R          | R           | R               | R                   | R                   | R               | R                   |
| Skelly Solvent      | R              | U          | U           | U               | X                   | X                   | X               | R                   |
| Skydrol             | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Skydrol 500         | U              | U          | R           | U               | U                   | U                   | U               | U                   |
| Sodium Hydroxide    | R              | R          | R           | R               | U                   | R                   | R               | R                   |
| Sovasol             | R              | U          | U           | R               | R                   | R                   | U               | R                   |
| Soy Bean Oil        | R              | U          | M           | M               | R                   | X                   | R               | R                   |
| Stearic Acid        | R              | R          | R           | R               | R                   | U                   | U               | R                   |
| Stoddard Solvent    | R              | U          | U           | R               | R                   | R                   | U               | R                   |
| Sucrose             | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Sulphuric Acid      | R              | R          | R           | R               | R                   | U                   | U               | R                   |

| <b>Fluid</b>       | <b>Nitrile</b> | <b>SBR</b> | <b>EPDM</b> | <b>Neoprene</b> | <b>Polyacrylate</b> | <b>Polyurethane</b> | <b>Silicone</b> | <b>Fluorocarbon</b> |
|--------------------|----------------|------------|-------------|-----------------|---------------------|---------------------|-----------------|---------------------|
| Tall Oil           | R              | U          | U           | M               | R                   | U                   | X               | R                   |
| Tannic Acid        | R              | R          | R           | R               | U                   | X                   | R               | R                   |
| Tar                | R              | U          | U           | M               | U                   | X                   | R               | R                   |
| Tartaric Acid      | R              | R          | R           | R               | X                   | X                   | R               | R                   |
| Tetrachloro Ethane | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Tetralin           | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Tidewater          | R              | U          | U           | R               | R                   | R                   | R               | R                   |
| Toluene            | U              | U          | U           | U               | U                   | U                   | U               | R                   |
| Trichloro Ethylene | M              | U          | U           | U               | U                   | U                   | U               | R                   |
| Triethanol Amine   | M              | R          | R           | R               | U                   | U                   | X               | U                   |
| Turbine Oil        | R              | U          | U           | U               | R                   | R                   | U               | R                   |
| Turpentine         | R              | U          | U           | U               | R                   | U                   | U               | R                   |
| UCDN 50HB280X      | R              | R          | R           | R               | X                   | X                   | R               | R                   |
| Univis J-43        | R              | U          | U           | R               | R                   | R                   | U               | R                   |
| Varnish            | R              | U          | U           | U               | U                   | M                   | U               | R                   |
| Vinegar            | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Water              | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Wheat Germ Oil     | R              | U          | U           | M               | R                   | R                   | R               | R                   |
| Whiskey & Wine     | R              | R          | R           | R               | U                   | U                   | R               | R                   |
| Wood Oil           | R              | U          | U           | R               | X                   | M                   | U               | R                   |