Acid Resistance Chart

Maximum test pressure: 4.3 PSI (29.6 KPA)
Maximum operating temperature: 140° F non-consistent

R - Recommended N - Not Recommended

Reagent	Flexible Coupling 70°F	Proflex 70°F
Acetic Acid 20%	R	R
Acetic Acid 80%	N	N
Acetone	N	N
Alcohol (Methyl or Ethyl)	R	R
Aluminum Chloride	R	R
Aluminum Sulfate	R	R
Alums	R	R
Ammonia Gas (Dry)	R	R
Ammonium Chloride	R	R
Ammonium Hydroxide	R	R
Ammonium Nitrate	R	R
Ammonium Phosphate	R	R
Ammonium Sulfate	R	R
Ammonium Sulfide	R	R
Amyl Chloride	N	N
Aniline	N	N
Aqua Regia	N	N
Barium Chloride	R	R
Barium Hydroxide	R	R
Barium Sulfate	R	R
Barium Sulfide	R	R
Beer	R	R
Beet Sugar Liquors	R	R
Benzene	N	N
Benzoic Acid	R	N
Black Liquor	R	R
Bleach 12 5% active Cl2	R	N
Boric Acid	R	R
Bromic Acid	R	N
Bromine Water	N	N
Butane	N	R
Butyric Acid	N	N
Calcium Carbonate	R	R
Calcium Chloride	R	R
Calcium Hydroxide	R	R
Calcium Hypochlorite	R	N
Calcium Sulfate	R	R
Cane Sugar Liquors	R	R
Carbon Bisulfide	N	N
Carbon Dioxide	R	R
Carbon Monoxide	R	R
Carbon Tetrachloride	N	N
Carbon Acid	R	R
Caustic Soda	R	N
Caustic Soda 50%	R	R
Caustic Potash	R	R
Chloride (Dry)	N	N
Chloride (Wet)	N	N
Chloroacetic Acid	N	N
Chlorobenzene	N	N
Chloroform	N	N
Chromic Acid 10%	R	N
Chromic Acid 50%	N	N
Citric Acid	R	R
Copper Chloride	R	R
Copper Cyanide	R	R
Copper Nitrate	R	R
Copper Sulfate	R	R
Cottonseed Oil	R	R
Cresol	N	N
Cyclohexanol	N	R
Cyclohexanone	N	N
Dimethylamine	N	N
Dioctyl Pthalate	N	N

Reagent	Flexible Coupling 70°F	Proflex 70°F
Disodium Phosphate	N	N
Distilled Water	R	R
Ethers	N	N
Ethyl Acetate	N	N
Ethylene Chloride	N	N
Ethylene Glycol	R	R
Fatty Acids (C6)	R	R
Ferric Chloride	R	R
Ferric Sulfate	R	R
Fluorine (Gas Wet)	N	N
Formaldehyde (20%)	R	R
Formic Acid (10%)	R	R
Freon 12 Dry	N	R
Fruit Juices & Pulp	R	R
Furfural	N	N
Gasoline (Refined)	N	N
Glucose	R	R
Glycerine	R	R
Hydrobromic Acid (20%)	R	N
Hydrochloric Acid	R	N
Hydocyanic Acid	R	R
Hydoquinone	R	N
Hypochlorous Acid	R	N
Iodine	N	N
Kerosene	N	N
Lactic Acid 25%	R	R
Linseed Oil	R	R
Liquors	N	N
Machine Oil	N	N
Magnesium Chloride	R	R
Magnesium Sulfate	R	R
Maleic Acid	N	N
Methyl Chloride	N	N
Methyl Ethyl Ketone	N	N
Milk	R	R
Mineral Oils	N	R
Muriatic Acid	R	N
Nickel Chloride	R	R
Nickel Sulfate	R	R
Nitric Acid 0-40%	R	N
Nitric Acid 41-100%	N	N
Oleic Acid	N	N
Oelum	N	N
Oxalic Acid	R	R
Palmitic Acid 10%	R	R
Perchloric Acid	N	N
Petroleum Oils (Sour)	N	N
Phenol 5%	N	N
Phosphorous Trichloride	N	N
Photographic Solutions	R	R
Picric Acid	N	N
Plating Solution	R	R
Potassium Carbonate	R	R
Potassium Chlorate	R	R
Potassium Chloride	R	R
Potassium Cyanide	R	R
Potassium Dichromate	R	R
Potassium Hydroxide	R	R
Potassium Permanganate 10%	R	R
Potassium Sulfate	R	R
Propane Gas	R	R
Propyl Alcohol	R	R
Sea Water	R	R
Sewage	R	R

Reagent	Flexible Coupling 70°F	Proflex 70°F
Silver Cyanide	R	R
Silver Nitrate	R	R
Silver Sulfate	R	R
Sodium Bicarbonate	R	R
Sodium Bisulfite	R	R
Sodium Carbonate	R	R
Sodium Cyanide	R	R
Sodium Ferrocyanide	R	R
Sodium Hydroxide	R	R
Sodium Hypochlorite	R	N
Sodium Sulfate	R	R
Sodium Sulfide	R	R
Sodium Sulfite	R	R
Sodium Thiosulfate	R	N
Stannic Chloride	R	N
Stannous Chloride	R	R
Stearic Acid	R	R
Sulfite Liquor S	R	R
ulfur	R	N
Sulfur Dioxide (Dry) \	R	N
Sulfur Dioxide (Wet)	R	N
Sulfuric Acid 50%	R	R
Sulfuric Acid 70%	N	N
Sulfuric Acid 93%	N	N
Sulfurous Acid	R	N
Tannic Acid	R	R
Tanning Liquors	R	R
Tartaric Acid	R	R
Toluene	N	N
Trichloroethylene	N	N
Triethanolamine	N	N
Trisodium Phosphate	R	R
Turpentine	N	N
Urea	R	R
Urine	R	R
Vinegar	R	R
Water (Fresh)	R	R
Water (Salt)	R	R
Whiskey	R	R
Wines	R	R
Xylene	N	N
Zinc Chloride	R	R
Zinc Sulfate	R	R

NOTE: The data listed in this table is only to give information in regard to general use and does not constitute a guarantee. Materials should be tested under actual service to determine suitability for a particular purpose.