

CHEMICAL RESISTANCE OF BRONZE PADDLE PUMPS AND IMPELLERS

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|--|-----------|--|-----------|-------------------------------|-----------|
| COMPATIBILITY RATINGS | | 1 = SATISFACTORY 2 = FAIR 3 = DOUBTFUL 4 = UNSATISFACTORY X = INSUFFICIENT | | | |
| LIQUID | 53X & 63X | LIQUID | 53X & 63X | LIQUID | 53X & 63X |
| A | | F | | O | |
| Acetaldehyde | X | Ferric Chloride | 1 | Octyl Alcohol | X |
| Acetone | 4 | Ferric Nitrate | 1 | Oleic Acid | X |
| Acetyl Acetone | X | Formaldehyde | 2 | Olive Oil | 2 |
| Acetyl Chloride | X | Freon, 11 | X | Ozone | 1 |
| Aluminum Acetate | 2 | Freon, 22 | 1 | P | |
| Aluminum Bromide | X | Fuel Oil | 1 | Paint Thinner, Duco | X |
| Aluminum Chloride | 1 | Furfural | 4 | Palmitic Acid | 2 |
| Aluminum Nitrate | 1 | G | | Peanut Oil | 1 |
| Ammonia, Gas, Cold | X | Gasoline | 1 | Petroleum Oil, Crude | |
| Gas, Hot | X | Gelatin | 1 | Phenol | X |
| Liquid (Anhydrous) | X | Glycerine-Glycerol | 1 | Phosphoric Acid, 3 Molar | X |
| Ammonium Chloride, 2N | X | Glycols | 1 | Concentrated | X |
| Ammonium Nitrate, 2N | 1 | H | | Potassium Chloride | 1 |
| Ammonium Sulfate | 1 | N-Heptane | X | Potassium Cyanide | 1 |
| Amyl Alcohol | 1 | N-Hexane | 1 | Potassium Hydroxide, 50% | 1 |
| Amyl Naphthalene | X | Hexyl Alcohol | X | Potassium Nitrate | 1 |
| Aniline Hydrochloride | 4 | Hydraulic Oil (petroleum base) | 1 | Potassium Sulphate | 1 |
| Automatic Transmission Fluid | X | Hydrochloric Acid, 3 Molar | 4 | Propane | 1 |
| Automotive Brake Fluid | X | concentrated | 4 | Propyl Alcohol | 1 |
| B | | Hydrogen Peroxide | X | R | |
| Barium Chloride | 1 | Hydrogen Sulfide | | RJ-1 (MIL-F-25558) | X |
| Barium Hydroxide | 1 | Wet, Cold | 2 | RP-1 (MIL-R-25576) | X |
| Beer | 1 | Wet, Hot | 2 | Rapeseed Oil | 1 |
| Beet Sugar Liquors | X | Hypochlorous Acid | X | S | |
| Bleach Liquor | X | I | | Sewage | X |
| Boric Acid | 1 | Isopropanol | X | Silicone Greases | 1 |
| Bromine Trifluoride | 4 | Isopropyl Alcohol | 1 | Silicone Oils | 1 |
| Butane | 1 | J | | Soap Solutions | 1 |
| Butter - Animal Fat | 1 | JP X (MIL-F-25604) | X | Soda Ash | 1 |
| Butyl Alcohol | X | K | | Sodium Bicarb / Baking Soda | 1 |
| C | | Kerosene | 1 | Sodium Borate | 1 |
| Calcium Chloride | 1 | (similar to RP-1 & JP-1) | | Sodium Bisulfate of Bisulfite | 1 |
| Calcium Hydroxide | 1 | L | | Sodium Chloride | 1 |
| Calcium Nitrate | 1 | Lacquers | 4 | Sodium Hydroxide, 3 Molar | 2 |
| Cane Sugar Liquors | 1 | Lacquer Solvents | 4 | Sodium Hypochlorite 20% | 1 |
| Carbolic Acid, Phenol | X | Lard, Animal Fat | 1 | Sodium Nitrate | 1 |
| Castor Oil | 1 | Lime Sulphur | X | Sodium Sulphate | 1 |
| Chlorine Bleach | X | Linseed Oil | X | Sour Crude Oil | X |
| Chlorine, Wet | 2 | Liquid Petroleum Gas (LPG) | 1 | Soybean Oil | 1 |
| Chlorobenzene | 4 | Lubricating Oils, Di-ester | X | Stearic Acid | 2 |
| Chlorodane | X | Petroleum Base | 1 | Stoddard Solvent | 1 |
| Citric Acid | 1 | SAE 10, 20, 30,40, 50 | 1 | Sulfur Liquors | 2 |
| Cobalt Chloride | X | Lye Solutions | X | Sulfur Hexafluoride | 1 |
| Copper Acetate | X | M | | Sulfuric Acid, 3 Molar | 2 |
| Corn Oil | 1 | Magnesium Chloride | 1 | Concentrated | 4 |
| Cottonseed Oil | 1 | Magnesium Hydroxide | 1 | Sulfurous Acid | X |
| Crude Oil | X | Magnesium Sulphite & Sulphate | 1 | T | |
| D | | Mercuric Chloride | 1 | Tannic Acid | X |
| Denatured Alcohol | 1 | Mercury | 1 | Tartaric Acid | X |
| Detergent, Water Solution | 1 | Methane | 1 | Transformer Oil | X |
| Developing Fluids (photo) | X | Methanol | X | Transmission Fluid Type A | 1 |
| Diacetone Alcohol | 4 | Methyl Alcohol | 2 | Trichloroethylene | 4 |
| Dichloro-Isopropyl Ether | X | Milk | X | Turbine Oil | 1 |
| Diesel Oil | 1 | Mineral Oils | 1 | Turpentine | 1 |
| Diethylene Glycol | 1 | N | | V | |
| Drinking Water | X | Naptha | 1 | Vegetable Oil | 1 |
| Dry Cleaning Fluids | X | Natural Gas | 1 | Versilube F-50 | 1 |
| E | | Nickel Chloride | X | W X Y Z | |
| Ethanol | X | Nickel Sulfate | X | Water | 2 |
| Ethers | X | Nitric Acid, 3 Molar | 4 | Whiskey and Wines | X |
| Ethyl Alcohol | 1 | Concentrated | 4 | Wood Alcohol | X |
| Ethylene Diamine | 1 | Red Fuming (RFNA) | 4 | Xylene | 4 |
| Ethyl Ether | 2 | Inhibited Red Fuming (IRFNA) | 4 | Zinc Chloride | X |
| Ethylene Glycol | 1 | | | Zinc Sulfate | X |