

// PVC CHEMICAL RESISTANCE CHART

| Chemical | Concentration | Temperature | |
|--------------------------|---------------------|----------------|-----------------|
| | | 20 °C 68 °F | 60 °C 140 °F |
| Acetate Solvents | | U | U |
| Acetic Acid | 10% | A | C |
| Acetic Acid | Glacial | C | U |
| Acetone | | U | U |
| Acrylonitrile | | A | C |
| Adipic Acid | | A | C |
| Alcohol Butyl | | A | C |
| Alcohol Ethyl | | A | C |
| Alcohol Isopropyl | | A | C |
| Alcohol Methyl | | A | C |
| Aluminum Acetate | | A | |
| Aluminum Chloride | | A | A |
| Aluminum Hydroxide | | A | |
| Aluminum Sulfate | | A | A |
| Allyl Chloride | | | |
| Ammonia | 0.88 S.G. (Aqueous) | A | A |
| Ammonia | Dry Gas | A | |
| Ammonia | Liquid | U | U |
| Ammonium Chloride | | A | A |
| Ammonium Hydroxide | | A | |
| Animal Oils | | | |
| Amyl Acetate | | U | U |
| Aniline Oils | | | |
| Aromatic Hydrocarbons | | U | U |
| Asphalt | | U | U |
| ASTM Fuel A | | A | A |
| ASTM Fuel B | | U | U |
| ASTM 1 Oil | | | |
| ASTM 3 Oil | | | |
| Barium Chloride | | A | A |
| Barium Hydroxide | | A | A |
| Barium Sulfide | | A | A |
| Benzene | | U | U |
| Benzine | | C | C |
| Bordeaux Mixture | | A | A |
| Borax | | A | A |
| Boric Acid | | A | A |
| Brine | | A | A |
| Bromine Traces | | U | U |
| Butyl Acetate | | U | U |
| Calcium Hydroxide | | A | A |
| Calcium Hypochlorite | | A | A |
| Carbonic Acid | | C | U |
| Carbon Dioxide | | A | A |
| Carbon Disulphite | | U | U |
| Carbon Monoxide | | A | A |
| Carbon Tetrachloride | | U | U |
| Casein | | A | C |
| Chlorine | Dry gas | A | A |
| Chlorine | Wet Gas | C | U |
| Chlorine | Water | U | U |
| Chlorobenzene | | U | U |
| Chlorinated Hydrocarbons | | U | U |
| Chloroform | | U | U |
| Chromic Acid | 10% | A | C |
| Citric Acid | | A | A |
| Coal Tar | | U | U |
| Copper Chloride | | A | A |
| Copper Nitrate | | A | A |
| Copper Sulphate | | A | A |
| Cottonseed Oil | | | |

| Chemical | Concentration | Temperature | |
|------------------------------|---------------|----------------|-----------------|
| | | 20 °C 68 °F | 60 °C 140 °F |
| Creosote | | U | U |
| Cresol | | A | C |
| Cresylic Acid | | U | U |
| Cyclohexane | | A | C |
| Cyclohexanone | | U | U |
| DDT Weed Killer | | A | C |
| Detergent Synthetic | | A | A |
| Developers Photographic | | A | A |
| Dextrin | | A | A |
| Dextrose | | A | A |
| Dibutyl Phthalate | | U | U |
| Dichlorobenzene | | U | U |
| Diesel Oil | | | |
| Diethylene Glycol | | A | A |
| Diethyl Ether | | U | U |
| Di-isodecyl Phthalate | | U | U |
| Dicotyl Phthalate | | U | U |
| Emulsifiers | | A | A |
| Emulsions Photographic | | A | A |
| Ethyl Acetate | | U | U |
| Ethylene Dichloride | | U | U |
| Ethylene Glycol | | A | A |
| Fatty Acid | | A | A |
| Ferric Chloride | | A | A |
| Ferric Sulphate | | A | A |
| Ferrous Chloride | | A | A |
| Ferrous Sulphate | | A | A |
| Fixing Solution Photographic | A | A | |
| Fluorine | | U | U |
| Formaldehyde | 40% | U | U |
| Formic Acid | 40% | A | A |
| Formic Acid | 50% | C | U |
| Formic Acid | 100% | U | U |
| Fuel Oil | | | |
| Glacial Acetic Acid | | C | U |
| Glucose | | A | A |
| Glycerine | | A | A |
| Grape Sugar | | A | A |
| Grease | | | |
| Heptane | | C | U |
| Hexane | | C | U |
| Hydrobromic Acid | | A | A |
| Hydrochloric Acid | 10% | A | A |
| Hydrochloric Acid | 40% | A | U |
| Hydrofluoric Acid | 10% | A | C |
| Hydrofluoric Acid | 40% | A | U |
| Hydrofluoboric Acid | | A | A |
| Hydrofluosilicic Acid | | A | A |
| Hydrogen Peroxide | | A | |
| Hydrogen Sulphide | | A | |
| Iso-octan | | A | C |
| Isopropyl Acetate | | U | U |
| Kerosene | | C | C |
| Ketones | | U | U |
| Lactic Acid | 10% | A | |
| Lactic Acid | 100% | U | U |
| Lacquer Solvents | | C | U |
| Linseed Oil | | | |
| Lubricating Oils | | | |
| Magnesium Chloride | | A | A |
| Magnesium Hydroxide | | A | A |

Legend:

A = Satisfactory

C = Questionable - Suggest testing

U = Unsatisfactory

Blank = No data available

| Chemical | Concentration | Temperature | |
|---------------------------------|---------------|----------------|-----------------|
| | | 20 °C 68 °F | 60 °C 140 °F |
| Magnesium Sulphate | | A | A |
| Malic Acid | | A | A |
| Methyl Acetate | | U | U |
| Methyl Bromide | | U | U |
| Methyl Ethyl Ketone | | U | U |
| Methylene Chloride | | U | U |
| Mineral Oils | | | |
| Monochlorobenzene | | U | U |
| Naphtha | | C | U |
| Napthalene | | C | U |
| Nitric Acid | 10% | A | A |
| Nitric Acid | 40% | A | C |
| Nitric Acid | 70% | U | U |
| Nitrobenzene | | U | U |
| Nitrogen Fertilizers | | A | |
| Oleic Acid | | A | C |
| Oxalic Acid | | A | A |
| Palmitic Acid | | A | A |
| Paraffin | | A | A |
| Pentane | | C | U |
| Perchloroethylene | | U | U |
| Phenol | | C | U |
| Phosphoric Acid | | A | A |
| Pitch | | A | C |
| Potassium Hydroxide | | A | A |
| Propane | | A | A |
| Sea Water | | A | A |
| Sodium Hydroxide (caustic soda) | 10% | A | A |

| Chemical | Concentration | Temperature | |
|---------------------------------|---------------|----------------|-----------------|
| | | 20 °C 68 °F | 60 °C 140 °F |
| Sodium Hydroxide (caustic soda) | 50% | A | U |
| Sodium Cyanide | | A | A |
| Soybean Oil | | | |
| Stearic Acid | | A | A |
| Styrene | | U | U |
| Sulphur Dioxide | Dry | A | A |
| Sulphur Dioxide | Moist | C | U |
| Sulphur Dioxide | Liquid | U | U |
| Sulphuric Acid | 45% | A | A |
| Sulphuric Acid | 60% | C | C |
| Sulphuric Acid | 98% | U | U |
| Sulphurous Acid | 30% | A | |
| Tannic Acid | | A | A |
| Tartaric Acid | | A | A |
| Tetrahydrofuran | | U | U |
| Toluene | | U | U |
| Trichlorethylene | | U | U |
| Triethanolamine | | A | A |
| Tricresyl Phosphate | | U | U |
| Turpentine | | C | U |
| Urea | | A | A |
| Vinegar | | A | A |
| Vinyl Acetate | | U | U |
| Vinyl Chloride | | U | U |
| Water | | A | A |
| Xylene | | U | U |
| Zinc Chloride | | A | A |
| Zinc Sulphate | | A | A |

| | | | | |
|----------------|-------------------------|---|---------------------------|----------------------------------|
| Legend: | A = Satisfactory | C = Questionable - Suggest testing | U = Unsatisfactory | Blank = No data available |
|----------------|-------------------------|---|---------------------------|----------------------------------|

// FORMULAS AND CONVERSION FACTORS

| | | | |
|-------------|-------|-------|--|
| LENGTH | mm | in | mm x 0,03937 = in |
| | in | mm | in x 25,4001 = mm |
| | m | ft | m x 3,2808 = ft |
| | ft | m | ft x 0,3048 = m |
| WEIGHT | kg | lb | kg x 2,20462 = lb |
| | lb | kg | lb x 0,45359 = kg |
| | kg/m | lb/ft | kg/m x 0,672 = lb/ft |
| | lb/ft | kg/m | lb/ft x 1,488 = kg/m |
| PRESSURE | bar | MPa | bar x 10 ⁻¹ = MPa |
| | MPa | bar | MPa x 10 = bar |
| | bar | psi | bar x 14,504 = psi |
| | psi | bar | psi x 0,068948 = bar |
| | mm Hg | bar | mm Hg x 1,33322 x 10 ⁻³ = bar |
| TEMPERATURE | °C | °F | 9/5 °C + 32 = °F |
| | °F | °C | 5/9 x (°F - 32) = °C |