

Chemical Resistance

The following chart gives a guideline of chemical resistance of PVC jacketed conduits.

1 - Excellent 2 - Good 3 - Fair 4 - Poor

| Chemical | Concentration | Resistance |
|-----------------------------|---------------|------------|
| Acetate Solvents | | 4 |
| Acetic Acid | 10% | 2 |
| Acetic Acid (Glacial) | | 3 |
| Acetone | | 4 |
| Acrylonitrile | | 1 |
| Alcohols (Aliphatic) | | 3 |
| Aluminum Chloride | | 1 |
| Aluminum Sulfate (Alums) | | 1 |
| Ammonia (Anhydrous Liquids) | | 4 |
| Ammonia (Aqueous) | | 1 |
| Ammoniated Latex | | 1 |
| Ammonium Chloride | | 1 |
| Ammonium Hydroxide | | 1 |
| Amyl Acetate | | 4 |
| Aniline Oils | | 4 |
| Aromatic Hydrocarbons | | 4 |
| Asphalt | | 4 |
| ASTM Fuel A | | 3 |
| ASTM Fuel B | | 4 |
| ASTM #1 Oil | | 2 |
| ASTM #3 Oil | | 3 |
| Barium Chloride | | 1 |
| Barium Sulphide | | 1 |
| Barium Hydroxide | | 1 |
| Benzene (Benzol) | | 4 |
| Benzine (Petroleum Ether) | | 3 |
| Black Liquor | | 1 |
| Bordeaux Mixture | | 1 |
| Boric Acid | | 1 |
| Butyl Acetate | | 4 |
| Butyl Alcohol | | 2 |
| Calcium Hydroxide | | 1 |
| Calcium Hypochloride | | 1 |
| Carbolic Acid (Phenol) | | 2 |
| Carbon Dioxide | | 1 |
| Carbon Disulphide | | 4 |
| Carbon Tetrachloride | | 4 |
| Carbonic Acid | | 1 |
| Casein | | 1 |
| Caustic Soda | | 1 |
| Chlorine Gas (wet) | | 4 |
| Chlorine Gas (dry) | | 4 |
| Chlorine (water solution) | | 3 |
| Chlorobenzene | | 4 |
| Chlorinated Hydrocarbons | | 4 |
| Chromic Acid | 10% | 2 |
| Citric Acid | | 1 |
| Coal Tar | | 4 |
| Coconut Oil | | 3 |
| Corn Oil | | 1 |
| Cottonseed Oil | | 3 |

| Chemical | Concentration | Resistance |
|----------------------------------|---------------|------------|
| Creosote | | 4 |
| Cresol | | 3 |
| Cresylic Acid | | 4 |
| Cyclohexane | | 2 |
| DDT Weed Killer | | 1 |
| Dibutyl Phthalate | | 4 |
| Diesel Oils | | 3 |
| Diethylene Glycol | | 2 |
| Diethyl Ether | | 1 |
| Di-isodecyl Phthalate | | 4 |
| Dioctyl Phthalate | | 4 |
| Dow General Weed Killer (Phenol) | | 4 |
| Dow General Weed Killer (H2O) | | 2 |
| Ethyl Alcohol | | 3 |
| Ethylene Dichloride | | 4 |
| Ethylene Glycol | | 2 |
| Ferric Chloride | | 1 |
| Ferric Sulphate | | 1 |
| Ferrous Chloride | | 1 |
| Ferrous Sulphate | | 1 |
| Formaldehyde | | 4 |
| Fuel Oil | | 2 |
| Furfural | | 3 |
| Gallic Acid | | 1 |
| Gasoline (Hi test) | | 3 |
| Glycerine | | 1 |
| Grease | | 1 |
| Green Sulphate Liquor | | 1 |
| Heptachlor in Petroleum Solvents | | 1 |
| Heptane | | 3 |
| Hexane | | 3 |
| Hydrobromic Acid | | 1 |
| Hydrochloric Acid | 10% | 1 |
| Hydrochloric Acid | 40% | 3 |
| Hydrochloric Acid | 70% | 4 |
| Hydrofluorobonic Acid | | 1 |
| Hydrofluorosilicic Acid | | 1 |
| Hydrogen Peroxide | 10% | 1 |
| Iso-octane | | 3 |
| Isopropyl Acetate | | 4 |
| Isopropyl Acetate | | 2 |
| Jet Fuels (JP-3, 4 and 5) | | 3 |
| Kerosene | | 3 |
| Ketones | | 4 |
| Linseed Oil | | 1 |
| Lubricating Oils | | 1 |
| Magnesium Chloride | | 1 |
| Magnesium Hydroxide | | 1 |
| Magnesium Sulphate | | 1 |
| Malathion 50 in Aromatics | | 4 |
| Malic Acid | | 1 |

| Chemical | Concentration | Resistance |
|---------------------------------------|---------------|------------|
| Methyl Acetate | | 4 |
| Methyl Alcohol | | 3 |
| Methyl Bromide | | 4 |
| Methyl Ethyl Ketone | | 4 |
| Methylene Chloride | | 4 |
| Mineral Oil | | 1 |
| Monochlorobenzene | | 4 |
| Muriatic Acid (see Hydrochloric Acid) | | - |
| Naphtha | | 3 |
| Naphthalene | | 4 |
| Nitric Acid | 10% | 1 |
| Nitric Acid | 35% | 1 |
| Nitric Acid | 70% | 4 |
| Oleic Acid | | 1 |
| Oleum | | 4 |
| Oxalic Acid | | 1 |
| Pentachlorophenol in Oil | | 2 |
| Pentane | | 3 |
| Perchloroethylene | | 4 |
| Petroleum Ether | | 3 |
| Phenol | | 2 |
| Phosphoric Acid | 85% | 1 |
| Pitch | | 2 |
| Potassium Hydroxide | | 1 |
| Propyl Alcohol | | 2 |
| Ritchfield "A" Weed Killer | | 3 |
| Sea Water | | 1 |
| Sodium Hydroxide | 10% | 1 |
| Sodium Hydroxide | 50% | 1 |
| Soybean Oil | | 3 |
| Sodium Cyanide | | 1 |
| Stoddard Solvent | | 4 |
| Styrene | | 4 |
| Sulpher Dioxide (liquid) | | 4 |
| Sulpheric Acid | 50% | 1 |
| Sulpheric Acid | 98% | 4 |
| Sulphurous Acid | | 2 |
| Tall Oil | | 4 |
| Tannic Acid | | 1 |
| Toluene | | 4 |
| Trichlorethylene | | 4 |
| Triethanol Amine | | 3 |
| Tricresyl Phosphate (Skydrol) | | 4 |
| Turpentine | | 3 |
| Vinegar | | 1 |
| Vinyl Chloride | | 4 |
| Water | | 1 |
| White Liquor | | 1 |
| Xylene | | 4 |
| Zinc Chloride | | 1 |
| Zinc Sulphate | | 1 |