

This list of the most frequently used industrial chemicals is coded to reflect the use of PVS as a recommended ducting material. The following data is a result of laboratory testing conditions, and should be used as a guideline in determining the ultimate use for the material. However, actual service conditions may vary greatly. Therefore, each material should be tested under these specific conditions.

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| <b>A</b><br>Acetaldehyde U<br>Acetamide –<br>Acetate Solvents – Crude U<br>Acetate Solvents – Pure U<br>Acetic Acid 0-20% E<br>Acetic Acid 20-30% E<br>Acetic Acid 30-60% E<br>Acetic Acid 80% G<br>Acetic Acid – Glacial G<br>Acetic Acid Vapors E<br>Acetic Anhydride U<br>Acetone U<br>Acetyl Chloride E<br>Acetylene E<br>Adipic Acid E<br>Alcohol, Allyl E<br>Alcohol, Amyl E<br>Alcohol, Butyl E<br>Alcohol, Ethyl E<br>Alcohol, Methyl E<br>Alcohol, Propyl E<br>Alkaform Anesthesia –<br>Allyl Chloride U<br>Alum E<br>Alum, Chrome E<br>Alum, Potassium E<br>Aluminum Chloride E<br>Aluminum Fluoride E<br>Aluminum Hydroxide E<br>Aluminum Oxychloride E<br>Aluminum – Molten –<br>Aluminum Nitrate E<br>Aluminum Sulfate E<br>Aluminum Sulfuric Acid 40-70<br>95% U<br>Ammonia, Gas E<br>Ammonia, Liquid S<br>Ammonia, Aqua 10% E<br>Ammonium Acetate –<br>Ammonium Bifluoride E<br>Ammonium Bromide –<br>Ammonium Carbonate E<br>Ammonium Chloride E<br>Ammonium Chloride 25% E<br>Ammonium Hydroxide 28% E<br>Ammonium Metaphosphate E<br>Ammonium Nitrate E<br>Ammonium Monophosphate –<br>Ammonium Oxalate –<br>Ammonium Persulphate E<br>Ammonium Phosphate E<br>Ammonium Sulfate E<br>Ammonium Sulfide E<br>Ammonium Thiocyanate E<br>Amyl Acetate U<br>Amyl Alcohol E<br>Amyl Chloride U | Aniline U<br>Aniline Chlorohydrate U<br>Aniline Hydrochloride U<br>Anthraquinone E<br>Anthraquinonesulfonic Acid E<br>Antimony Trichloride E<br>Aqua Regia E<br>Arsenic Acid E<br>Arsenius –<br>Arylsulfonic Acid E<br><b>B</b><br>Baking Oven Gases –<br>Barium Carbonate E<br>Barium Chloride E<br>Barium Hydrate –<br>Barium Hydroxide E<br>Barium Sulfate E<br>Barium Sulfide –<br>Beer E<br>Beet E<br>Benzol U<br>Benzaldehyde U<br>Benzene Sulfonic Acid 10% E<br>Benzoic E<br>Bismuth Carbonate E<br>Black Liquor E<br>Bleach E<br>Borax E<br>Boric Acid E<br>Boron Trifluoride E<br>Bordeaux Mixture –<br>Breeder Pellets E<br>Brine E<br>Bromic Acid E<br>Bromine Liquid U<br>Bromine Water E<br>Butadiene E<br>Butane E<br>Butanol Primary E<br>Butanol Secondary E<br>Butyl Acetate G<br>Butyl Alcohol E<br>Butylene E<br>Butyl Phenyl E<br>Butyne Diol E<br>Butyric Acid G<br><b>C</b><br>Cadmium –<br>Calcium Bisulfite E<br>Calcium Carbonate E<br>Calcium Chlorate E<br>Calcium Chloride E<br>Calcium Hydroxide E<br>Calcium Hypochlorite E<br>Calcium Nitrate E<br>Calcium Sulfate E<br>Carbonated Beverages – | Carbolic –<br>Carbonic Acid E<br>Carbon Bisculfide U<br>Carbon Dioxide E<br>Carbon Monoxide E<br>Carbon Tetrachloride S<br>Castor Oil E<br>Caustic Potash E<br>Caustic Soda E<br>Chloroacetic Acid E<br>Chloral Hydrate E<br>Chloric Acid 20% E<br>Chlorine Gas G<br>Chlorine Water E<br>Chlorobenzene U<br>Chloroform U<br>Chlorosulfonic Acid E<br>Chrome Alum E<br>Chromic Acid 50% E<br>Cider –<br>Citric E<br>Copper Carbonate –<br>Copper Chloride E<br>Copper Cyanide E<br>Copper Fluoride E<br>Copper Nitrate E<br>Copper Sulfate E<br>Cottonseed Oil E<br>Cresol U<br>Cresote –<br>Cresylic Acid 50% E<br>Croton Aldehyde U<br>Crude Oil E<br>Cyclohexanol U<br>Cyclohexanon U<br><b>D</b><br>Demineralized Water E<br>Dextrin E<br>Dextrose E<br>Diazo Salts E<br>Diglycolic Acid E<br>Dimethylamine U<br>Dioctylphthalate U<br>Disodium Phosphate E<br><b>E</b><br>Ethers U<br>Ethyl Acetate U<br>Ethyl Acrylate U<br>Ethyl Alcohol E<br>Ethyl Chloride U<br>Ethyl Ether U<br>Ethylene Bromide U<br>Ethylene Chlorohydrin U<br>Ethylene Dichloride U<br>Ethylene Glycol E | <b>F</b><br>Fatty Acids E<br>Ferric Chloride E<br>Ferric Nitrate E<br>Ferric Sulfate E<br>Ferrous Chloride E<br>Ferrous Sulfate E<br>Fluorine Gas E<br>Fluoroboric Acid E<br>Fluorosilicic Acid E<br>Formaldehyde E<br>Formic Acid E<br>Freon-12 E<br>Fructose E<br>Furfural U<br><b>G</b><br>Gallic Acid E<br>Gas Coke Oven E<br>Gas Natural E<br>Gas Manufactured U<br>Gasoline E<br>Glauber's Salt –<br>Gold Cyanide Electroplating –<br>Glucose E<br>Glycerine E<br>Glycol E<br>Glycolic Acid E<br>Green Liquor E<br><b>H</b><br>Heptaine E<br>Hexane E<br>Hexanol Tertiary E<br>Hydrobromic Acid 20% E<br>Hydrochloric Acid 35% E<br>Hydrochloric Acid 50% E<br>Hydrocyanic Acid 10% E<br>Hydrofluoric Acid 50% E<br>Hydrogen E<br>Hydrogen Cyanide E<br>Hydrogen Peroxide 50% E<br>Hydrogen Phosphide E<br>Hydrogen Sulfide Dry+ E<br>Hydrogen Sulfide Aq. Sol. E<br>Hydroquinone E<br>Hydroxylamine Sulfate E<br>Hypochlorous Acid E<br><b>I</b><br>Iodine U<br><b>J</b><br>Jet Fuel JP-4 E<br>Jet Fuel JP-5 E<br><b>K</b><br>Kerosene E<br>Ketones U<br>Kraft Liquor E |
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| <b>L</b><br>Lactic Acid 25% E<br>Lactic plus Salt –<br>Lard Oil E<br>Lauric Acid E<br>Lauryl Chloride E<br>Lead Molten –<br>Lead Acetate E<br>Lemon Oil –<br>Linseed Oil E<br>Linoleic Acid E<br>Liqueurs E<br>Lubricating Oil –<br>Lysol –                                                                                                                                                                                                                                                             | <b>P</b><br>Palmitic Acid 10% E<br>Palmitic Acid 70% E<br>Peracetic Acid 40% E<br>Perchloric Acid 10% E<br>Perchloric Acid 70% U<br>Phenol E<br>Phenylhydrazine U<br>Phenylhydrazine Hydrochloride E<br>Phosgene Liquid U<br>Phosgene Gas E<br>Phosphoric Acid 10% E<br>Phosphoric Acid 25%, 50% E<br>Phosphoric Acid 50%, 85% E<br>Phosphorus Yellow E<br>Phosphorus Pentoxide E<br>Phosphorous Trichloride U<br>Photographic Solutions E<br>Picric Acid U<br>Plating Solutions E<br>Plating Solutions, Brass –<br>Plating Solutions, Cadmium –<br>Plating Solutions, Chrome 25% –<br>Plating Solutions, Chrome 40% –<br>Plating Solutions, Copper –<br>Plating Solutions, Gold –<br>Plating Solutions, Iron –<br>Plating Solutions, Lead –<br>Plating Solutions, Nickel –<br>Plating Solutions, Rhodium –<br>Plating Solutions, Silver E<br>Plating Solutions, Tin –<br>Plating Solutions, Zinc –<br>Potassium Aluminum Sulfate –<br>Potassium Bicarbonate E<br>Potassium Bichromate E<br>Potassium Borate E<br>Potassium Bromate E<br>Potassium Bromide E<br>Potassium Carbonate E<br>Potassium Chlorate Aqueous –<br>Potassium Chloride E<br>Potassium Chromate –<br>Potassium Cyanide E<br>Potassium Dichromate E<br>Potassium Ferricyanide E<br>Potassium Ferrocyanide E<br>Potassium Fluoride E<br>Potassium Hydrate –<br>Potassium Hydroxide E<br>Potassium Hypochlorite –<br>Potassium Iodide –<br>Potassium Nitrate E<br>Potassium Oxalate –<br>Potassium Perborate E<br>Potassium Perchlorate E<br>Potassium Permanganate 10% E<br>Potassium Persulfate E<br>Potassium Sulfate E<br>Propane E<br>Propargyl Alcohol E<br>Propyl Alcohol E<br>Propylene Dichloride U<br>Pyrogalllic –<br>Pyroligneus – | <b>R</b><br>Rayon Coagulating Bath E<br><b>S</b><br>Salenic Acid Aqueous E<br>Salicic Acid E<br>Salicylaldehyde –<br>Sea Water E<br>Sauerkraut Brine –<br>Selenic Acid E<br>Silicic Acid E<br>Silver Bromide –<br>Silver Nitrate E<br>Silver Cyanide<br>Electroplating Sol. –<br>Soaps E<br>Soap Solutions E<br>Sodium Acetate E<br>Sodium Benzoate E<br>Sodium Bicarbonate E<br>Sodium Bichromate –<br>Sodium Bisulfate E<br>Sodium Borate –<br>Sodium Bisulfite E<br>Sodium Bromide E<br>Sodium Carbonate E<br>Sodium Chlorate E<br>Sodium Chloride E<br>Sodium Chlorite –<br>Sodium Citrate –<br>Sodium Cyanide E<br>Sodium Dichromate E<br>Sodium Ferricyanide E<br>Sodium Ferrocyanide E<br>Sodium Fluoride E<br>Sodium Hydroxide 15% E<br>Sodium Hydroxide 30% E<br>Sodium Hydroxide 70% E<br>Sodium Hypochlorite E<br>Sodium Iodide –<br>Sodium Lactate –<br>Sodium Nitrate E<br>Sodium Nitrite E<br>Sodium Peroxide –<br>Sodium Phosphate –<br>Sodium Sulfate E<br>Sodium Sulfide E<br>Sodium Sulfite E<br>Sodium Thiosulfate 20%<br>plus Acetic Acid 20% –<br>Sodium Thiosulfate plus 4%<br>Potassium Meta Bisulfate –<br>Soda Ash –<br>Sour Crude Oil E<br>Speculum Plating Solution –<br>Stannic Chloride E<br>Stannous Chloride E<br>Stearic Acid E<br>Stoddard's Solvent E<br>Succinic –<br>Sulfated Detergents –<br>Sulfur E<br>Sulfur Chloride –<br>Sulfur Dioxide Dry E<br>Sulfur Dioxide Wet G<br>Sulfur Oxychloride –<br>Sulfuric Acid 10% E | Sulfuric Acid 30% E<br>Sulfuric Acid 60% E<br>Sulfuric Acid 70% E<br>Sulfuric Acid 80% E<br>Sulfuric Acid 90% E<br>Sulfuric Acid 95% E<br>Sulfuric Acid 103% U<br>Sulfurous Acid E<br>Sulfur Trioxide E<br>Steam and Air –<br>Steam and CO2 and Air –<br>Steam SO2, CO2 and Air –<br>Syrup –                                                                                                                                                                                                                                                                                                |
| <b>M</b><br>Magnesium Carbonate E<br>Magnesium Chloride E<br>Magnesium Hydroxide E<br>Magnesium Nitrate E<br>Magnesium Sulfate E<br>Maleic Acid E<br>Malic Acid E<br>Meats –<br>Mercuric Chloride E<br>Mercuric Cyanide E<br>Mercurous Nitrate E<br>Mercury E<br>Methane E<br>Methyl Alcohol E<br>Methyl Chloride U<br>Methyl Sulfate E<br>Methyl Sulfuric Acid E<br>Methylene Chloride U<br>Milk E<br>Mineral Oil E<br>Mine Water –<br>Mixed Acids E<br>Molasses E<br>Molybdic –<br>Monoethanolamine – |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>T</b><br>Tall Oil E<br>Tannic Acid E<br>Tanning Liquors E<br>Tartaric Acid E<br>Tetraethyl Lead E<br>Tetrahydrofuran U<br>Thionyl Chloride U<br>Thread Cutting Oils –<br>Titanium Tetrachloride E<br>Toluene, Toluol U<br>Toluene-Kerosene Mixture –<br>Tomato Juice –<br>Toxaphene-Xylene –<br>Tributyl Phosphate U<br>Trichloroacetic Acid –<br>Trichloroethylene U<br>Triethanolamine E<br>Triethylamine E<br>Trimethylpropane E<br><b>U</b><br>Urea E<br>Uric E<br>Urine E<br><b>V</b><br>Vegetable Oil –<br>Vegetable Juices –<br>Vinyl Acetate U<br>Visco 202 Crude Oil Additive – |
| <b>N</b><br>Naphtha E<br>Naphthalene U<br>Nickel Chloride E<br>Nickel Nitrate E<br>Nickel Sulfate E<br>Nicotine E<br>Nicotinic Acid E<br>Nitric Acid 10% E<br>Nitric Acid 70% E<br>Nitric Acid 100% U<br>Nitrobenzene U<br>Nitrous Acid 10% –<br>Nitrous Oxide E<br><b>O</b><br>Ocenol E<br>Oil and Fats E<br>Oleic Acid E<br>Oleum U<br>Oxalic Acid E<br>Oxygen E<br>Ozone G                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>W</b><br>Water E<br>Water Acid Mine E<br>Water Demineralized E<br>Water Distilled E<br>Water Salt E<br>Water Sewage E<br>Whiskey E<br>White Liquor E<br>Wines E<br><b>X</b><br>Xylene or Xylol U<br><b>Z</b><br>Zinc Chloride E<br>Zinc Chromate E<br>Zinc Cyanide E<br>Zinc Molten –<br>Zinc Nitrate E<br>Zinc Sulfate E                                                                                                                                                                                                                                                                |

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