

P.V.S.[®] Data Sheet



P.V.S.[®] combines the strength and durability of steel with the chemical inertness of plastic.

P.V.S. is ideal for exhaust systems in the plating industry where alkyl mercaptans, alkyl isocyanides, hydrogen fluoride, hydrogen chloride, etc. are used.

Cyanides and chlorides have been in direct contact with vinyl coatings for years with very good results.

P.V.S. is ideal for hoods where exposure to radioactive isotopes is involved. There is no existing code — stainless steel is used only because of the ease of cleanup. Whereas P.V.S. can be cleaned just as easily.

Note: For all installations, exposed raw edges are to be covered with P.V.S. Sealant.

This list of the most frequently used industrial chemicals is coded to reflect the use of P.V.S. 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.

A		Aniline	U	Carbolic	–	F	
Acetaldehyde	U	Aniline Chlorohydrate	U	Carbonic Acid	E	Fatty Acids	E
Acetamide	–	Aniline Hydrochloride	U	Carbon Bisculfide	U	Ferric Chloride	E
Acetate Solvents – Crude	U	Anthraquinone	E	Carbon Dioxide	E	Ferric Nitrate	E
Acetate Solvents – Pure	U	Anthraquinonesulfonic Acid	E	Carbon Monoxide	E	Ferric Sulfate	E
Acetic Acid 0-20%	E	Antimony Trichloride	E	Carbon Tetrachloride	S	Ferrous Chloride	E
Acetic Acid 20-30%	E	Aqua Regia	E	Castor Oil	E	Ferrous Sulfate	E
Acetic Acid 30-60%	E	Arsenic Acid	E	Caustic Potash	E	Fluorine Gas	E
Acetic Acid 80%	G	Arsenius	–	Caustic Soda	E	Fluoroboric Acid	E
Acetic Acid – Glacial	G	Arylsulfonic Acid	E	Chloroacetic Acid	E	Fluorosilicic Acid	E
Acetic Acid Vapors	E	B		Chloral Hydrate	E	Formaldehyde	E
Acetic Anhydride	U	Baking Oven Gases	–	Chloric Acid 20%	E	Formic Acid	E
Acetone	U	Barium Carbonate	E	Chlorine Gas	G	Freon-12	E
Acetyl Chloride	E	Barium Chloride	E	Chlorine Water	E	Fructose	E
Acetylene	E	Barium Chloride	E	Chlorobenzene	U	Furfural	U
Adipic Acid	E	Barium Hydrate	–	Chloroform	U		
Alcohol, Allyl	E	Barium Hydroxide	E	Chlorosulfonic Acid	E	G	
Alcohol, Amyl	E	Barium Sulfate	E	Chrome Alum	E	Gallic Acid	E
Alcohol, Butyl	E	Barium Sulfide	–	Chromic Acid 50%	E	Gas Coke Oven	E
Alcohol, Ethyl	E	Beer	E	Cider	–	Gas Natural	E
Alcohol, Methyl	E	Beet	E	Citric	E	Gas Manufactured	U
Alcohol, Propyl	E	Benzol	U	Copper Carbonate	–	Gasoline	E
Alkaform Anesthesia	–	Benzaldehyde	U	Copper Chloride	E	Glauber's Salt	–
Allyl Chloride	U	Benzene Sulfonic Acid 10%	E	Copper Cyanide	E	Gold Cyanide Electroplating	–
Alum	E	Benzoic	E	Copper Fluoride	E	Glucose	E
Alum, Chrome	E	Bismuth Carbonate	E	Copper Nitrate	E	Glycerine	E
Alum, Potassium	E	Black Liquor	E	Copper Sulfate	E	Glycol	E
Aluminum Chloride	E	Bleach	E	Cottonseed Oil	E	Glycolic Acid	E
Aluminum Fluoride	E	Borax	E	Cresol	U	Green Liquor	E
Aluminum Hydroxide	E	Boric Acid	E	Cresote	–		
Aluminum Oxychloride	E	Boron Trifluoride	E	Cresylic Acid 50%	E	H	
Aluminum – Molten	–	Bordeaux Mixture	–	Croton Aldehyde	U	Heptaine	E
Aluminum Nitrate	E	Breeder Pellets	E	Crude Oil	E	Hexane	E
Aluminum Sulfate	E	Brine	E	Cyclohexanol	U	Hexanol Tertiary	E
Aluminum Sulfuric Acid		Bromic Acid	E	Cyclohexanon	U	Hydrobromic Acid 20%	E
40-70 95%	U	Bromine Liquid	U	D		Hydrochloric Acid 35%	E
Ammonia, Gas	E	Bromine Water	E	Demineralized Water	E	Hydrochloric Acid 50%	E
Ammonia, Liquid	S	Butadiene	E	Dextrin	E	Hydrocyanic Acid 10%	E
Ammonia, Aqua 10%	E	Butane	E	Dextrose	E	Hydrofluoric Acid 50%	E
Ammonium Acetate	–	Butanol Primary	E	Diazo Salts	E	Hydrogen	E
Ammonium Bifluoride	E	Butanol Secondary	E	Diglycolic Acid	E	Hydrogen Cyanide	E
Ammonium Bromide	–	Butyl Acetate	G	Dimethylamine	U	Hydrogen Peroxide 50%	E
Ammonium Carbonate	E	Butyl Alcohol	E	Dioctylphthalate	U	Hydrogen Phosphide	E
Ammonium Chloride	E	Butylene	E	Disodium Phosphate	E	Hydrogen Sulfide Dry+	E
Ammonium Clouride 25%	E	Butyl Phensl	E	E		Hydrogen Sulfide Aq. Sol.	E
Ammonium Hydroxide 28%	E	Butyne Diol	E	Ethers	U	Hydroquinone	E
Ammonium Metaphosphate	E	Butyric Acid	G	Ethyl Acetate	U	Hydroxylamine Sulfate	E
Ammonium Nitrate	E	C		Ethyl Alcohol	E	Hypochlorous Acid	E
Ammonium Monophosphate	–	Cadmium	–	Ethyl Chloride	U		
Ammonium Oxalate	–	Calcium Bisulfite	E	Ethyl Ether	U	I	
Ammonium Persulphate	E	Calcium Carbonate	E	Ethylene Bromide	U	Iodine	U
Ammonium Phosphate	E	Calcium Chlorate	E	Ethylene Chlorohydrin	U		
Ammonium Sulfate	E	Calcium Chloride	E	Ethylene Dichloride	U	J	
Ammonium Sulfide	E	Calcium Hydroxide	E	Ethylene Glycol	E	Jet Fuel JP-4	E
Ammonium Thiocyanate	E	Calcium Hypochlorite	E			Jet Fuel JP-5	E
Amyl Acetate	U	Calcium Nitrate	E				
Amyl Alcohol	E	Calcium Sulfate	E			K	
Amyl Chloride	U	Carbonated Beverages	–			Kerosene	E
						Ketones	U
						Kraft Liquor	E

E = Excellent G = Good S = Satisfactory U = Unsatisfactory

L

Lactic Acid 25%	E
Lactic plus Salt	—
Lard Oil	E
Lauric Acid	E
Lauryl Chloride	E
Lead Molten	—
Lead Acetate	E
Lemon Oil	—
Linseed Oil	E
Linoleic Acid	E
Liqueurs	E
Lubricating Oil	—
Lysol	—

M

Magnesium Carbonate	E
Magnesium Chloride	E
Magnesium Hydroxide	E
Magnesium Nitrate	E
Magnesium Sulfate	E
Maleic Acid	E
Malic Acid	E
Meats	—
Mercuric Chloride	E
Mercuric Cyanide	E
Mercurous Nitrate	E
Mercury	E
Methane	E
Methyl Alcohol	E
Methyl Chloride	U
Methyl Sulfate	E
Methyl Sulfuric Acid	E
Methylene Chloride	U
Milk	E
Mineral Oil	E
Mine Water	—
Mixed Acids	E
Molasses	E
Molybdc	—
Monoethanolamine	—

N

Naphtha	E
Naphthalene	U
Nickel Chloride	E
Nickel Nitrate	E
Nickel Sulfate	E
Nicotine	E
Nicotinic Acid	E
Nitric Acid 10%	E
Nitric Acid 70%	E
Nitric Acid 100%	U
Nitrobenzene	U
Nitrous Acid 10%	—
Nitrous Oxide	E

O

Ocenol	E
Oil and Fats	E
Oleic Acid	E
Oleum	U
Oxalic Acid	E
Oxygen	E
Ozone	G

P

Palmitic Acid 10%	E
Palmitic Acid 70%	E
Peracetic Acid 40%	E
Perchloric Acid 10%	E
Perchloric Acid 70%	U
Phenol	E
Phenylhydrazine	U
Phenylhydrazine Hydrochloride	E
Phosgene Liquid	U
Phosgene Gas	E
Phosphoric Acid 10%	E
Phosphoric Acid 25%, 50%	E
Phosphoric Acid 50%, 85%	E
Phosphorus Yellow	E
Phosphorus Pentoxide	E
Phosphorous Trichloride	U
Photographic Solutions	E
Picric Acid	U
Plating Solutions	E
Plating Solutions, Brass	—
Plating Solutions, Cadmium	—
Plating Solutions, Chrome 25%	—
Plating Solutions, Chrome 40%	—
Plating Solutions, Copper	—
Plating Solutions, Gold	—
Plating Solutions, Iron	—
Plating Solutions, Lead	—
Plating Solutions, Nickel	—
Plating Solutions, Rhodium	—
Plating Solutions, Silver	E
Plating Solutions, Tin	—
Plating Solutions, Zinc	—
Potassium Aluminum Sulfate	—
Potassium Bicarbonate	E
Potassium Bichromate	E
Potassium Borate	E
Potassium Bromate	E
Potassium Bromide	E
Potassium Carbonate	E
Potassium Chlorate Aqueous	—
Potassium Chloride	E
Potassium Chromate	—
Potassium Cyanide	E
Potassium Dichromate	E
Potassium Ferricyanide	E
Potassium Ferrocyanide	E
Potassium Fluoride	E
Potassium Hydrate	—
Potassium Hydroxide	E
Potassium Hypochlorite	—
Potassium Iodide	—
Potassium Nitrate	E
Potassium Oxalate	—
Potassium Perborate	E
Potassium Perchlorate	E
Potassium Permanganate 10%	E
Potassium Persulfate	E
Potassium Sulfate	E
Propane	E
Propargyl Alcohol	E
Propyl Alcohol	E
Propylene Dichloride	U
Pyrogallic	—
Pyroigneus	—

R

Rayon Coagulating Bath	E
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S

Salenic Acid Aqueous	E
Salicic Acid	E
Salicylaldehyde	—
Sea Water	E
Sauerkraut Brine	—
Selenic Acid	E
Silicic Acid	E
Silver Bromide	—
Silver Nitrate	E
Silver Cyanide Electroplating Sol.	—
Soaps	E
Soap Solutions	E
Sodium Acetate	E
Sodium Benzoate	E
Sodium Bicarbonate	E
Sodium Bichromate	—
Sodium Bisulfate	E
Sodium Borate	—
Sodium Bisulfite	E
Sodium Bromide	E
Sodium Carbonate	E
Sodium Chlorate	E
Sodium Chloride	E
Sodium Chlorite	—
Sodium Citrate	—
Sodium Cyanide	E
Sodium Dichromate	E
Sodium Ferricyanide	E
Sodium Ferrocyanide	E
Sodium Fluoride	E
Sodium Hydroxide 15%	E
Sodium Hydroxide 30%	E
Sodium Hydroxide 70%	E
Sodium Hypochlorite	E
Sodium Iodide	—
Sodium Lactate	—
Sodium Nitrate	E
Sodium Nitrite	E
Sodium Peroxide	—
Sodium Phosphate	—
Sodium Sulfate	E
Sodium Sulfide	E
Sodium Sulfite	E
Sodium Thiosulfate 20% plus Acetic Acid 20%	—
Sodium Thiosulfate plus 4% Potassium Meta Bisulfate	—
Soda Ash	—
Sour Crude Oil	E
Speculum Plating Solution	—
Stannic Chloride	E
Stannous Chloride	E
Stearic Acid	E
Stoddard's Solvent	E
Succinic	—
Sulfated Detergents	—
Sulfur	E
Sulfur Chloride	—
Sulfur Dioxide Dry	E
Sulfur Dioxide Wet	G
Sulfur Oxychloride	—
Sulfuric Acid 10%	E

Sulfuric Acid 30%	E
Sulfuric Acid 60%	E
Sulfuric Acid 70%	E
Sulfuric Acid 80%	E
Sulfuric Acid 90%	E
Sulfuric Acid 95%	E
Sulfuric Acid 103%	U
Sulfurous Acid	E
Sulfur Trioxide	E
Steam and Air	—
Steam and CO ₂ and Air	—
Steam SO ₂ , CO ₂ and Air	—
Syrup	—

T

Tall Oil	E
Tannic Acid	E
Tanning Liquors	E
Tartaric Acid	E
Tetraethyl Lead	E
Tetrahydrofuran	U
Thionyl Chloride	U
Thread Cutting Oils	—
Titanium Tetrachloride	E
Toluene, Toluol	U
Toluene-Kerosene Mixture	—
Tomato Juice	—
Toxaphene-Xylene	—
Tributyl Phosphate	U
Trichloroacetic Acid	—
Trichloroethylene	U
Triethanolamine	E
Triethylamine	E
Trimethylpropane	E

U

Urea	E
Uric	E
Urine	E

V

Vegetable Oil	—
Vegetable Juices	—
Vinyl Acetate	U
Visco 202 Crude Oil Additive	—

W

Water	E
Water Acid Mine	E
Water Demineralized	E
Water Distilled	E
Water Salt	E
Water Sewage	E
Whiskey	E
White Liquor	E
Wines	E

X

Xylene or Xylol	U
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Z

Zinc Chloride	E
Zinc Chromate	E
Zinc Cyanide	E
Zinc Molten	—
Zinc Nitrate	E
Zinc Sulfate	E



PVS MANUFACTURING DIVISION

P.V.S. is an exclusive product of:

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