

PVS

Data Sheet



PVS combines the strength and durability of steel with the chemical inertness of plastic.

PVS 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.

PVS 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 PVS can be cleaned just as easily.

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

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.

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

I		Nicotine	E	Potassium Hydrate	-	Sodium Sulfide	E
Iodine	U	Nicotinic Acid	E	Potassium Hydroxide	E	Sodium Sulfite	E
J		Nitric Acid 10%	E	Potassium Hypochlorite	-	Sodium Thiosulfate 20% Plus	-
Jet Fuel JP-4	U	Nitric Acid 70%	E	Potassium Iodide	-	Acetic Acid 20%	-
Jet Fuel JP-5	U	Nitric Acid 100%	U	Potassium Nitrate	E	Sodium Thiosulfate Plus	-
K		Nitrobenzene	U	Potassium Oxalate	-	4% Potassium Meta Bisulfate	-
Kerosene	E	Nitrous Acid 10%	-	Potassium Perborate	E	Soda Ash	-
Ketones	U	Nitrous Oxide	E	Potassium Perchlorate	E	Sour Crude Oil	E
Kraft Liquor	E	O		Potassium Permanganate 10%	E	Speculum Plating Solution	-
L		Ocenol	E	Potassium Persulfate	E	Stannic Chloride	E
Lactic Acid 25%	E	Oil and Fats	E	Potassium Sulfate	E	Stannous Chloride	E
Lactic Plus Salt	-	Oleic Acid	E	Propane	E	Stearic Acid	E
Lard Oil	E	Oleum	U	Propargyl Alcohol	E	Stoddard's Solvent	E
Lauric Acid	E	Oxalic Acid	E	Propyl Alcohol	E	Succinic	-
Lauryl Chloride	E	Oxygen	E	Propylene Dichloride	U	Sulfated Detergents	-
Lead Molten	-	Ozone	G	Pyrogallic	-	Sulfur	E
Lead Acetate	E	P		Pyroligneus	-	Sulfur Chloride	-
Lemon Oil	-	Palmitic Acid 10%	E	R		Sulfur Dioxide Dry	E
Linseed Oil	E	Palmitic Acid 70%	E	Rayon Coagulating Bath	E	Sulfur Dioxide Wet	G
Linoleic Acid	E	Peracetic Acid 40%	E	S		Sulfur Oxychloride	-
Liqueurs	E	Perchloric Acid 10%	E	Salenic Acid Aqueous	E	Sulfuric Acid 10%	E
Lubricating Oil	-	Perchloric Acid 70%	U	Salicylic Acid	E	Sulfuric Acid 30%	E
Lysol	-	Phenol	E	Salicylaldehyde	-	Sulfuric Acid 60%	E
M		Phenylhydrazine	U	Sea Water	E	Sulfuric Acid 70%	E
Magnesium Carbonate	E	Phenylhydrazine Hydrochloride	E	Sauerkraut Brine	-	Sulfuric Acid 80%	E
Magnesium Chloride	E	Phosgene Liquid	U	Selenic Acid	E	Sulfuric Acid 90%	E
Magnesium Hydroxide	E	Phosgene Gas	E	Silicic Acid	E	Sulfuric Acid 95%	E
Magnesium Nitrate	E	Phosphoric Acid 10%	E	Silver Bromide	-	Sulfuric Acid 103%	U
Magnesium Sulfate	E	Phosphoric Acid 50%	E	Silver Nitrate	E	Sulfurous Acid	E
Maleic Acid	E	Phosphoric Acid 50%,85%	E	Soaps	E	Sulfur Trioxide	E
Malic Acid	E	Phosphorus Yellow	E	Soap Solutions	E	Steam And Air	-
Meats	-	Phosphorus Pentoxide	E	Sodium Acetate	E	Steam and CO2 and Air	-
Mercuric Chloride	E	Phosphorous Trichloride	U	Sodium Benzoate	E	Steam SO2, CO2 and Air	-
Mercuric Cyanide	E	Photographic Solutions	E	Sodium Bicarbonate	E	Syrup	-
Mercurous Nitrate	E	Picric Acid	U	Sodium Bichromate	-	T	
Mercury	E	Plating Solutions	E	Sodium Bisulfate	E	Tall Oil	E
Methane	E	Plating Solutions Brass	-	Sodium Borate	-	Tannic Acid	E
Methyl Alcohol	E	Plating Solutions Cadmium	-	Sodium Bisulfite	E	Tanning Liquors	E
Methyl Chloride	U	Plating Solutions, Chrome 25%	-	Sodium Bromide	E	Tartaric Acid	E
Methyl Sulfate	E	Plating Solutions, Copper	-	Sodium Carbonate	E	Tetraethyl Lead	E
Methyl Sulfuric Acid	E	Plating Solutions, Gold	-	Sodium Chlorate	E	Tetrahydrofuran	U
Methylene Chloride	U	Plating Solutions, Iron	-	Sodium Chloride	E	Thionyl Chloride	U
Milk	E	Plating Solutions, Lead	-	Sodium Chlorite	-	Thread Cutting Oils	-
Mineral Oil	E	Plating Solutions, Nickel	-	Sodium Citrate	-	Titanium Tetrachloride	E
Mine Water	-	Plating Solutions, Rhodium	-	Sodium Cyanide	E	Toluene, Tuluol	U
Mixed Acids	E	Plating Solutions, Silver	E	Sodium Dichromate	E	Toluene Kerosene Mixture	-
Molasses	E	Plating Solutions, Tim	-	Sodium Ferricyanide	E	Tomato Juice	-
Molybdc	-	Plating Solutions, Zinc	-	Sodium Ferrocyanide	E	Toxaphene Xylene	-
Monoethanolamine	-	Potassium Aluminum Sulfate	E	Sodium Fluoride	E	Tributyl Phosphate	U
N		Potassium Bicarbonate	E	Sodium Hydroxide 15%	E	Trichloroacetic Acid	-
Naphtha	E	Potassium Borate	E	Sodium Hydroxide 30%	E	Trichloroethylene	U
Naphthalene	U	Potassium Bromote	E	Sodium Hydroxide 70%	E	Triethanolamine	E
Nickel Chloride	E	Potassium Bromide	E	Sodium Hypochlorite	E	Triethylamine	E
Nickel Nitrate	E	Potassium Carbonate	E	Sodium Iodide	-	Trimethylpropane	E
Nickel Sulfate	E	Potassium Chloride	E	Sodium Lactate	-	U	
		Potassium Chromate	-	Sodium Nitrate	E	Urea	E
		Potassium Cyanide	E	Sodium Nitrite	E	Uric	E
		Potassium Dichromate	E	Sodium Peroxide	-	Urine	E
		Potassium Ferrocyanide	E	Sodium Phosphate	-		
		Potassium Fluoride	E	Sodium Sulfate	E		

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

V

Vegetable Oil	-
Vegetable Juices	-
Vinyl Acetate	U
Visco 202 Crude Oil a 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

MARSTAN INC.
Worldwide wholesale manufacturer of low pressure HVAC products



11421 Yellowpine Street NW
Minneapolis, MN 55448-3158
Phone 763.754.9487
Fax 763.754.9497
www.marstaninc.com