

# PVC Lab Tests

\*The following laboratory tests provide a guideline for PCD ducting of exhaust fumes. As actual conditions, such as temperature & concentration vary greatly, samples are provided to test & approve for each application.

**E = EXCELLENT**  
**G = GOOD**

**S = SATISFACTORY**  
**U = UNSATISFACTORY**

**\*\*\* = NOT TESTED**

<u>CHEMICAL</u>		<u>CHEMICAL</u>		<u>CHEMICAL</u>	
ACETOLDEHYDE	U	AMMONIUM HYDROXIDE 28%	E	BREEDER PELLETS	E
ACETAMIDE	***	AMMONIUM METAPHOSPHATE	E	BRINE	E
ACETATE SOLVENTS-CRUDE	U	AMMONIUM NITRATE	E	BROMIC ACID	E
ACETATE SOLVENTS-PURE	U	AMMONIUM MONOPHOSPHATE	***	BROMINE LIQUID	U
ACETIC ACID 0-20%	U	AMMONIUM OXALATE	***	BROMINE WATER	E
ACETIC ACID 20-30%	U	AMMONIUM PERSULPHATE	E	BUTADIENE	E
ACETIC ACID 30-60%	U	AMMONIUM PHOSPHATE	E	BUTANE	E
ACETIC ACID 80%	U	AMMONIUM SULFATE	E	BUTANOL PRIMARY	E
ACETIC ACID-GLACIAL	U	AMMONIUM SULFIDE	E	BUTANOL SECONDARY	E
ACETIC ACID-VAPORS	U	AMMONIUM THICYANATE	E	BUTYL ACETATE	U
ACETIC ANHYDRIDE	U	AMYL ACETONE	U	BUTYL ALCOHOL	E
ACETONE	U	AMYL ALCOHOL	E	BUTYLENE	E
ACETYL CHLORIDE	E	AMYL CHLORIDE	U	BUTYL PHENSL	E
ACETYLENE	E	ANILINE	U	BUTYNE DIOL	E
ADIPIC ACID	E	ANILINE CHLOROHYDRATE	U	BUTYRIC ACID	G
ALCOHOL, ALLYL	E	ANILINE HYDROCHLORIDE	U	CADMIUM	***
ALCOHOL, AMYL	E	ANTHROQUINONE	E	CALCIUM BISULFATE	E
ALCOHOL, BUTYL	E	ANTHROQUINONESULFONIC ACID	E	CALCIUM CARBONATE	E
ALCOHOL, ETHYL	E	ANTIMONY TRICHLORIDE	E	CALCIUM CHLORATE	E
ALCOHOL, METHYL	E	AQUA REGIA	U	CALCIUM CHLORIDE	U
ALCOHOL, PROPYL	E	ARSENIC ACID	E	CALCIUM HYDROXIDE	E
ALKAFORM ANESTHESIA	***	ARSENIUS	***	CALCIUM HYPOCHLORITE	U
ALLYL CHLORIDE	U	ARYLSULFONIC ACID	E	CALCIUM NITRATE	E
ALUM	E	BAKING OVEN GASSES	***	CALCIUM SULFATE	E
ALUM CHROME	E	BARIUM CARBONATE	E	CARBONATED BEVERAGES	***
ALUM POTASSIUM	E	BARIUM CHLORIDE	E	CARBOLIC	***
ALUMINUM CHLORIDE	E	BARIUM HYDRATE	***	CARBONIC ACID	E
ALUMINUM FLUORIDE	E	BARIUM HYDROXIDE	E	CARBON BISULFIDE	U
ALUMINUM HYDROXIDE	E	BARIUM SULFATE	E	CARBON DIOXIDE	E
ALUMINUM OXYCHLORIDE	E	BARIUM SULFIDE	***	CARBON MONOXIDE	E
ALUMINUM - MOLTEN	***	BEER	E	CARBON TETRACHLORIDE	S
ALUMINUM NITRATE	E	BEET	E	CASTOR OIL	E
ALUMINUM SULFATE	E	BENZOL	U	CAUSTIC PATASH	S
ALUM SULFERIC ACID 40-70%	U	BENZOLDEHYDE	U	CAUSTIC SODA	S
AMMONIA GAS	E	BENZENE SULFONIC ACID 10%	E	CHLORACETIC ACID	E

AMMONIA LIQUID	S	BENZOIC	E	CHLORAL HYDRATE	E
AMMONIA AQUA 10%	***	BISMUTH CARBONATE	E	CHLORIC ACID 20%	E
AMMONIUM ACETATE	***	BLACK LIQUOR	E	CHLORINE GAS	G
AMMONIUM BIOFLUORIDE	E	BLEACH	U	CHLORINE WATER	U
AMMONIUM BROMIDE	***	BORAX	E	CHLORIBENZENE	U
AMMONIUM CARBONATE	E	BORIC ACID	E	CHLOROFORM	U
AMMONIUM CHLORIDE	E	BORON TRIFLUORIDE	E	CHLOROSULFONIC ACID	E
AMMONIUM CLOURIDE 25%	E	BORDEAUX MIXTURE	***	CHROME ALUM	E
CHROMIC ACID 50%	U	GLAUBER'S SALT	***	MERCURY	E
CIDER	***	GOLD CYANIDE ELECTROPLATING	***	METHANE	E
CITRIC	E	GLUCOSE	E	METHYL ALCOHOL	E
COPPER CARBONATE	***	GLYCERINE	E	METHYL CHLORIDE	U
COPPER CHLORIDE	E	GLYCOL	E	METHYL SULFATE	E
COPPER CYANIDE	E	GLYCOLIC ACID	E	METHYL SULFURIC ACID	E
COPPER FLOURIDE	E	GREEN LIQUOR	E	METHYLENE CHLORIDE	U
COPPER NITRATE	E	HEPTAINE	E	MILK	E
COPPER SULFATE	E	HEXANE	E	MINERAL OIL	E
COTTENSEED OIL	E	HEXANOL TERTIARY	E	MINE WATER	***
CRESOL	U	HYDROBROMIC ACID 20%	E	MIXED ACIDS	U
CRESOLE	***	HYDROCHLORIC ACID 35%	E	MOLASSES	E
CRESYIC ACID 50%	***	HYDROCHLORIC ACID 50%	E	MOLYBDIC	***
CROTON ALDEHYDE	U	HYDROCYONIC ACID 10%	E	MONOETHANOLAMINE	***
CRUDE OIL	E	HYDROFLUORIC ACID 50%	E	NAPHTHA	E
CYCLHEXANOL	U	HYDROGEN	E	NAPHTHALENE	U
CYCLOPHEXONON	U	HYDROGEN CYANIDE	E	NICKEL CHLORIDE	E
DEMINEALIZED WATER	E	HYDROGEN PEROXIDE 50%	E	NICKEL NITRATE	E
DEXTRIN	E	HYDROGEN PHOSPHIDE	E	NICKEL SULFATE	E
DEXTROSE	E	HYDROGEN SULFIDE DRY+	E	NICOTINE	E
DIAZO SALTS	E	HYDROGEN SULFIDE AQ .SOL.	E	NICOTINIC ACID	E
DIGLYCOLIC ACID	E	HYDROQUINONE	E	NITRIC ACID 10%	E
DIMETHLAMINE	U	HYDRODROXYLAMINE SULFATE	E	NITRIC ACID 70%	U
DICTYLPHTHALATE	U	HYDROCHLOROUS ACID	E	NITRIC ACID 100%	U
DISODIUM PHOSPHATE	E	IODINE	U	NITROBENZENE	U
ETHERS	U	JET FUEL JP-4	E	NITROUS ACID 10%	***
ETHYL ACETATE	U	JET FUEL JP-5	E	NITROUS OXIDE	E
ETHYL ACRYLATE	U	KEROSENE	E	OCENOL	E
ETHYL ALCOHOL	E	KETONES	U	OIL AND FATS	E
ETHYL CHLORIDE	U	KRAFT LIQUOR	E	OLEIC ACID	E
ETHYL ETHER	U	LACTIC ACID 25%	E	OLEUM	U
ETHYLENE BROMIDE	U	LACTIC PLUS SALT	***	OXALIC ACID	E
ETHYLENE CHLOROHYDRIN	U	LARD OIL	E	OXYGEN	E
ETHYLENE DICHLORIDE	U	LAURIC ACID	E	OZONE	G
ETHYLENE GLYCOL	E	LAURYL CHLORIDE	E	PALMITIC ACID 10%	E
FATTY ACIDS	E	LEAD MOLTEN	***	PALMITIC ACID 70%	E
FERRIC CHLORIDE	***	LEAD ACETATE	E	PERACETIC ACID 40%	***
FERRIC NITRATE	E	LEMON OIL	***	PERCHLORIC ACID 10%	E
FERRIC SULFATE	E	LINSEED OIL	E	PERCHLORIC ACID 70%	U

FERROUS CHLORIDE	E	LINOLEIC ACID	E	PHENOL	E
FERROUS SULFATE	E	LIQUEURS	E	PHENYLHYDAZINE	U
FLORINE GAS	E	LUBRICATING OIL	***	PHENYLHYDAZINE HYDROCHL	U
FLUOROBONIC ACID	E	LYSOL	***	PHOSEGENE LIQUIDE	U
FLUROSILICIC ACID	E	MAGNESIUM CARBONATE	E	PHOSGENE GAS	E
FORMALDEHYDE	E	MAGNESIUM CHLORIDE	E	PHOSPHORIC ACID 10%	E
FORMIC ACID	***	MAGNESIUM HYDROXIDE	E	PHOSPHORIC ACID 25-50%	E
FREON-12	E	MAGNESIUM NITRATE	E	PHOSPHORIC ACID 50-85%	E
FRUCTOSE	E	MAGNESIUM SULFATE	E	PHOSPHORUS YELLOW	E
FURFURAL	U	MALEIC ACID	E	PHOSPHORUS PENTOXIDE	E
GALLIC ACID	E	MALIC ACID	E	PHOSPHORUS TRICHLORIDE	U
GAS COKE OVEN	E	MEATS	***	PHOTOGRAPHIC SOLUTIONS	E
GAS NATURAL	E	MERCURIC CHLORIDE	E	PICRIC ACID	U
GAS MANUFACTURED	U	MERCURIC CYCNIDE	E	PLATING SOLUSTIONS BRASS	***
GASOLINE	E	MERCUROUS NITRATE	E	PLATING SOL. CADMIUM	***
PLATING SOLUTIONS CHROME 25%	***	SOAPS	E	SULFURIC ACID 70%	E
PLATING SOLUTIONS CHROME 40%	***	SOAP SOLUTIONS	E	SULFURIC ACID 80%	E
PLATING SOLUTIONS COPPER	***	SODIUM ACETATE	E	SULFURIC ACID 90%	E
PLATING SOLUTIONS GOLD	***	SODIUM BENZOATE	E	SULFURIC ACID 95%	E
PLATING SOLUTIONS IRON	***	SODIUM BICARBONATE	E	SULFURIC ACID 103%	U
PLATING SOLUTIONS LEAD	***	SODIUM BICHROMATE	***	SULFUROUS ACID	E
PLATING SOLUTIONS NICKEL	***	SODIUM BISULFATE	E	SULFUR TRIOXIDE	E
PLATING SOLUTIONS RHODIUM	***	SODIUM BORATE	E	STEAM AND AIR	***
PLATING SOLUTIONS SILVER	S	SODIUM BISULFITE	E	STEAM AND CO2 AND AIR	***
PLATING SOLUTIONS TIN	***	SODIUM BROMIDE	E	STEAM SO2 CO2 AND AIR	***
PLATING SOLUTIONS ZINC	***	SODIUM CARBONATE	E	SYRUP	***
POTASSIUM ALUMINUM SULFATE	***	SODIUM CHLORATE	E	TALL OIL	E
POTASSIUM BICARBONATE	E	SODIUM CHLORIDE	E	TANNIC ACID	E
POTASSIUM BICHROMATE	E	SODIUM CHLORITE	***	TANNING LIQUORS	E
POTASSIUM BORATE	E	SODIUM CITRATE	***	TARTARIC ACID	E
POTASSIUM BROMATE	E	SODIUM CYANIDE	E	TATRAETHYL LEAD	E
POTASSIUM BROMIDE	E	SODIUM DICHROMATE	E	TETRAHYDROFURAN	U
POTASSIUM CARBONATE	E	SODIUM FERRICYANIDE	E	THIONYL CHLORIDE	U
POTASSIUM CHLORATE AQUEOUS	***	SODIUM FERROCYANIDE	E	THREAD CUTTING OILS	***
POTASSIUM CHLORIDE	E	SODIUM FLUORIDE	***	TITANIUM TETRACHLORIDE	E
POTASSIUM CHROMATE	***	SODIUM HYDROXIDE 15%	E	TOLUENE TOLUOL	U
POTASSIUM CYANIDE	E	SODIUM HYDROXIDE 30%	S	TOLUENE KEROSENE MIX	***
POTASSIUM CICHROMATE	E	SODIUM HYDROXIDE 70%	S	TOMATO JUICE	***
POTASSIUM FERRICYANIDE	E	SODIUM HYPOCHLORITE	E	TOXAPHENE-XYLENE	***
POTASSIUM FERROCYANIDE	E	SODIUM IODIDE	***	TRIBUTYL PHOSPHATE	U
POTASSIUM FLUORIDE	E	SODIUM LACTATE	***	TRICHLOROACETIC ACID	***
POTASSIUM HYDRATE	***	SODIUM NITRATE	E	TRICHLOROETHYLENE	U
POTASSIUM HYDROXIDE	E	SODIUM NITRITE	E	TRIETHANOLAMINE	***
POTASSIUM HYPOCHLORITE	***	SODIUM PEROXIDE	***	TRIETHYLAMINE	***
POTASSIUM IODINE	***	SODIUM PHOSPHATE	***	TRIMETHYLPROPANE	E
POTASSIUM NITRATE	E	SODIUM SULFATE	E	UREA	E
POTASSIUM OXALATE	***	SODIUM SULFIDE	E	URIC	E

POTASSIUM PERBORATE	E	SODIUM SULFITE	E	URINE	E
POTASSIUM PERCHLORATE	E	SODIUM THIOSULFATE 20% + ACETIC ACID 20%	***	VEGETABLE OIL	***
POTASSIUM PERMANGANATE 10%	S	SODIUM THIOSULFATE + 4% POTASSIUM META BISULFATE	***	VEGETABLE JUICES	***
POTASSIUM PERSULFATE	E	SODA ASH	***	VINYL ACETATE	U
POTASSIUM SULFATE	E	SOUR CRUDE OIL	E	VISCO 202 CRUDE OIL ADD	***
PROPANE	E	SPECULUM PLATING SOLUTION	***	WATER	E
PROPARGYL ALCOHOL	E	STANNIC CHLORIDE	E	WATER ACID MINE	E
PROPYL ALCOHOL	E	STANNOUS CHLORIDE	E	WATER DEMINERALIZED	E
PROPYLENE DICHLORIDE	U	STEARIC ACID	E	WATER DISTILLED	E
PYROGALLIC	***	STODDARD'S SOLVENT	E	WATER SALT	E
PYROLIDNEUS	***	SUCCINIC	***	WATER SEWAGE	E
RAYON COAGULATING BATH	E	SULFATED DETERGENTS	***	WHISKEY	E
SALENIC ACID AQUEOUS	E	SULFUR	E	WHITE LIQUOR	E
SALICILIC ACID	E	SULFUR CHLORIDE	***	WINES	E
SALICYLALDEHYDE	***	SULFUR DIOXIDE DRY	E	XYLENE OR XYLOL	U
SEA WATER	E	SULFUR DIOXIDE WET	G	ZINC CHLORIDE	E
SAUERKRAUT BRINE	***	SULFUR OXYCHLORIDE	***	ZINC CHROMATE	E
SELENIC ACID	E	SULFURIC ACID 10%	E	ZINC CYANIDE	E
SILICIC ACID	E	SULFURIC ACID 30%	E	ZINC MOLTEN	***
SILVER BROMIDE	***	SULFURIC ACID 60%	E	ZINC NITRATE	E
SILVER NITRATE	E			ZINC SULFATE	E
SILVER CYANIDE ELECTROPLATING	S				