

chemical resistance data

Media A - CO	Material °C Concentration	PVC-U			PVC-C			ABS			PE			PP			PVDF			EPDM			FPM					
		20	40	60	20	40	60	80	95	20	40	60	80	80	20	40	60	80	100	120	20	40	60	80	20	40	60	80
ACETALDEHYDE	technically pure	-	-	-	-	-	-	-	-	+ 0	0	-	-	-	+ 0	-	-	-	+ 0	-	0	-						
ACETIC ACID	40%, aqueous solution	0	-	0	0	-	-	-	-	+ + 0	+ + 0	-	-	-	0	-	-	-	+ + + +	+ + 0	0	-						
ACETIC ACID ANHYDRIDE	technically pure	0	-	0	-	-	-	-	-	+ + 0	+ + 0	-	-	-	0	-	-	-	+ + + +	+ + 0	0	-						
ACETONE	10% aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + 0	0	-	-						
ACRYLONITRILE	technically pure	-	-	-	-	-	-	-	-	+ + 0	+ +	+ +	+ +	-	-	-	-	-	+ + +	-	-	-						
ADIPIC ACID	technically pure	-	-	-	-	-	-	-	-	+ + +	+ + +	+ + +	0	-	+ + +	+ + +	+ + +	+ + +	+ + 0	0	-	-						
ALCOHOLIC SPIRITS	saturated, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
ALLYL ALCOHOL	app. 40% ethyl alcohol	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + 0	0	-	-						
ALUMINIUM CHLORIDE	96%	0	-	0	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	0	0	0	0						
ALUMINIUM SULPHATE	saturated	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
AMMONIA	cold saturated, aqueous	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
AMMONIUM ACETATE	gaseous, tech. pure	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
AMMONIUM HYDROGEN FLUORIDE	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +						
AMMONIUM COMPOUNDS: see SODIUM	50%, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
AMYL ACETATE	technically pure	-	-	-	-	-	-	-	-	+ + +	+ + +	0	-	+ + +	+ + +	+ + +	+ + +	0	0	-	-	-						
AMYL ALCOHOL	technically pure	+ + 0	-	-	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	0	0						
ANILINE	technically pure	-	-	-	-	-	-	-	-	0	0	0	-	+ + +	+ + +	+ + +	+ + +	0	-	-	-	-						
ANILINE HYDROCHLORIDE	aqueous, saturated	+ 0	-	-	-	-	-	-	-	+ + 0	+ + 0	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	0	-						
ANTIMONY TRICHLORIDE	90%, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
AQUA REGIA	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	-	-	-	-	0	-	0	0	0	0	0	0	0						
ARSENIC ACID	80%, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BARIUM HYDROXIDE	aqueous, saturated	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +						
BARIUM SALTS	aqueous, all	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BEEF TALLOW EMULSION, SULPHONATED	usual commercial	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	-	-	-	-	-						
BEER	usual commercial	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BENZALDEHYDE	aqueous, saturated	-	-	-	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BENZENE	technically pure	-	-	-	-	-	-	-	-	0	0	0	-	0	0	0	-	-	-	-	-	-						
BENZINE	free of lead and aromatic compounds	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	0	0	0	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BENZOIC ACID	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + 0 -	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BENZYL ALCOHOL	technically pure	0	-	-	-	-	-	-	-	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0						
BLEACHING LYE	12.5% active chlorine aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	0	0	0	-	0	0	0	-	0	0	0	0	0						
BORAX	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	0	0	0	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BORIC ACID	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BRINE, SEA WATER	aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BROMINE, LIQUID	technically pure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
BUTADIENE	technically pure	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTANE	technically pure	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTANEDIOL	aqueous, 10%	+ 0	-	-	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTANOL	technically pure	+ + 0	0	-	-	-	-	-	-	+ + +	+ + +	+ + +	0	0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTYL ACETATE	technically pure	-	-	-	-	-	-	-	-	0	0	0	-	0	0	0	-	0	0	0	0	0						
BUTYL PHENOL, P-TERTIARY	technically pure	0	-	-	-	-	-	-	-	0	0	0	-	0	0	0	-	0	0	0	0	0						
BUTYLENE GLYCOL	technically pure	+ + 0	0	-	-	-	-	-	-	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTYLENE LIQUID	technically pure	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
BUTYRIC ACID	technically pure	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	-	-	-	-	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0	+ + 0						
CALCIUM BISULPHATE	cold saturated, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CALCIUM CHLORIDE	saturated, aqueous, all	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CALCIUM HYDROXIDE	aqueous, saturated	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CALCIUM HYPOCHLORITE	cold saturated, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + -	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CALCIUM NITRATE	50%, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CARBON DIOXIDE (CARBONIC ACID)	technically pure, moist	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CARBON DISULPHIDE	technically pure	-	-	-	-	-	-	-	-	0	0	0	-	0	0	0	-	0	0	0	0	0						
CARBON TETRACHLORIDE	technically pure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
CAUSTIC SODA SOLUTION (sodium hydroxide)	up to 40%, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLORAL HYDRATE	up to 50%, aqueous	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLORAL ACID	technically pure	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLORINE	10%, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	0	0	0	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLORINE	moist, 97% gaseous	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
CHLORINE	anhydrous, tech. pure	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0	0	0	0	0						
CHLORINE	liquid, technically pure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
CHLORINE WATER	saturated	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	-	0	0	0	0	0						
CHLOROACETIC ACID, MONO	50%, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLOROENZENE	technically pure	-	-	-	-	-	-	-	-	0	0	0	-	0	0	0	-	0	0	0	0	0						
CHLOROETHANOL	technically pure	-	-	-	-	-	-	-	-	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHLOROFORM	technically pure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
CHLOROSULPHONIC ACID	technically pure	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
CHROME ALUM (CHROMIUM POTASSIUM SULPHATE)	cold saturated, aqueous	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CHROME ACID	all, aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	-	-	-	-	0	0	0	-	0	0	0	0	0						
CIDER	10% aqueous	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
CITRIC ACID	10% aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						
COPPER SALTS	all, aqueous	+ + 0	+ +	+ +	+ +	+ +	+ +	+ +	+ +	+ + + 0	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +	+ + +						

= No Data - = Not Recommended 0 = Conditionally Resistant + = Resistant

The data in the tables is based on information from the raw material suppliers, gained using direct contact between the chemical and the un-processed raw material. The resistance of any of the finished products against these media has not been verified. There is no given or intended legally binding assurance of material properties or of suitability for a specific purpose. Materials must be tested under actual service conditions to determine the suitability for a specific application.

chemical resistance data

Media CO - MA	Material °C Concentration	PVC-U		PVC-C		ABS		PE		PP		PVDF			EPDM			FPM				
		20	40	60	20	40	60	80	95	20	40	60	80	100	120	20	40	60	80	20	60	80
CORN OIL	technically pure	0	0	0	0	0	0	0	+	+	0	+	+	+	0	-	+	+				
CRESOL	cold saturated, aqueous	0	-	-	-	-	-	-	+	+	+	+	0	-	-	-	+					
CROTONIC ALDEHYDE	technically pure	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	+					
CYCLOHEXANE	technically pure	-	-	-	-	-	-	-	+	+	+	+	+	+	-	-	+					
CYCLOHEXANOL	technically pure	+	+	0	-	-	-	-	+	+	+	+	0	-	-	-	+					
CYCLOHEXANONE	technically pure	-	-	-	-	-	-	-	+	0	0	+	0	-	0	-	-					
DETERGENTS (WASHING POWDERS)	usual washing lathers	+	+	0	0	-	-	-	+	+	+	+	+	+	+	+	+					
DEXTRINE (Starch Gum)	usual commercial	+	+	+	0	-	-	-	+	+	+	+	+	+	+	+	+					
DIBUTYL ETHER	technically pure	-	-	-	-	-	-	0	0	-	0	-	-	-	-	-	0					
DIBUTYL PHTHALATE	technically pure	-	-	-	-	-	-	+	0	0	+	+	-	0	0	0	0					
DIBUTYL SEBACATE	technically pure	-	-	-	-	-	-	+	+	+	+	+	-	+	+	+	+					
DICHLOROACETIC ACID	technically pure	+	+	0	0	0	0	-	+	+	0	+	0	-	+	+	+					
DICHLOROACETIC ACID	technically pure	+	+	0	0	0	0	-	+	+	0	+	0	-	+	+	+					
METHYL ESHER	technically pure	-	-	-	-	-	-	+	+	+	+	+	0	+	+	0	-					
DICHLOROBENZENE	technically pure	-	-	-	-	-	-	0	+	+	+	0	+	+	0	-	+					
DICHLOROETHYLENE	technically pure	-	-	-	-	-	-	-	0	0	0	+	0	+	0	-	0					
DIESEL OIL	technically pure	+	+	0	0	0	0	0	+	0	0	+	+	+	+	+	+					
DIETHYLAMINE	technically pure	0	-	-	-	-	-	-	+	+	+	+	-	-	0	0	-					
DI-ISOBUTYL KETONE	technically pure	-	-	-	-	-	-	-	+	-	+	-	+	0	0	0	-					
DIMETHYL FORMAMIDE	technically pure	-	-	-	-	-	-	-	+	+	+	+	-	-	0	0	+					
DIMETHYLAMINE	technically pure	0	-	-	-	-	-	-	+	0	+	0	-	0	0	0	-					
ETHYL ACETATE	technically pure	-	-	-	-	-	-	-	+	0	0	+	0	-	0	0	0					
ETHYL ALCOHOL	technically pure, 96%	+	+	0	0	-	-	-	+	+	+	+	+	0	0	+	+					
ETHYL ALCOHOL + ACETIC ACID	fermentation mixture	+	+	0	0	-	-	-	+	+	+	+	+	0	0	+	+					
ETHYL BENZENE	technically pure	-	-	-	-	-	-	-	0	-	0	-	+	+	0	0	0					
ETHYL CHLORIDE	technically pure	-	-	-	-	-	-	-	0	0	0	+	+	+	0	-	0					
ETHYL ETHER	technically pure	-	-	-	-	-	-	-	0	+	+	+	+	0	-	-	-					
ETHYLENE CHLORIDE	technically pure	-	-	-	-	-	-	-	0	0	0	+	+	+	0	0	-					
ETHYLENE DIAMINE	technically pure	0	-	-	-	-	-	-	+	+	+	+	0	-	0	0	-					
ETHYLENE GLYCOL	technically pure	+	+	+	0	0	0	0	+	+	+	+	+	+	+	+	+					
ETHYLENE OXIDE	technically pure, liquid	-	-	-	-	-	-	-	-	0	+	+	+	0	0	0	-					
FATTY ACIDS >C ₆	technically pure	+	+	+	0	0	0	-	+	+	0	+	+	+	+	-	+					
FATTY ALCOHOL	technically pure	+	+	+	0	0	0	-	+	+	+	+	+	+	+	-	+					
SULPHONATES	aqueous	+	+	0	0	0	0	-	+	+	+	+	+	+	+	+	+					
FERRIC CHLORIDE	saturated	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FERRIC NITRATE	saturated	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FERROUS SULPHATE	technically pure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FLUOSILICIC ACID	32%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FORMALDEHYDE	40%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FORMAMIDE	technically pure	-	-	-	-	-	-	-	+	+	+	+	+	+	+	+	0					
FORMIC ACID	technically pure	+	0	-	0	-	-	-	+	+	+	+	+	+	+	+	0					
FRUIT JUICES	technically pure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
FUEL OIL	technically pure	+	0	0	0	0	0	0	0	-	0	-	+	+	+	+	+					
FURFURYL ALCOHOL	technically pure	-	-	-	-	-	-	-	+	+	+	+	0	-	0	-	-					
GELATINE	all, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
GLUCOSE	all, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
GLYCERINE	technically pure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
GLYCOCOLL	10%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0					
GLYCOLIC ACID	37%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
HEPTANE	technically pure	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+					
HEXANE	technically pure	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+					
HYDRAZINE HYDRATE	aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROBROMIC ACID	50%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROCHLORIC ACID	up to 10%, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROCYANIC ACID	up to 36%, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROFLUORIC ACID	technically pure	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROGEN	up to 10%, aqueous	+	0	0	+	+	+	+	+	+	+	+	+	+	+	+	0					
HYDROGEN CHLORIDE	40%, aqueous	+	+	0	0	0	0	0	+	+	+	+	+	+	+	+	+					
HYDROGEN PEROXIDE	70%, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROGEN SULPHIDE	technically pure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROGEN CHLORIDE	tech. pure, gaseous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROGEN PEROXIDE	3%, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
HYDROGEN PEROXIDE	30%, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	0	-	+					
HYDROGEN PEROXIDE	90%, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	0	-	0	0					
HYDROGEN PEROXIDE	technically pure	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0					
IODINE SOLUTION	6.5% iodine in ethanol	-	-	0	0	0	0	0	+	0	+	+	+	+	+	+	+					
IRON SALTS	all, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
ISO-OCTANE	technically pure	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+					
ISOPROPYL ALCOHOL	technically pure	+	+	0	0	0	0	0	+	+	+	+	+	+	+	+	0					
ISOPROPYL ETHER	technically pure	-	-	-	-	-	-	-	0	-	0	-	+	+	+	+	-					
LACTIC ACID	10%, aqueous	+	0	-	+	+	+	+	+	+	+	+	+	0	0	0	-					
LANOLIN	technically pure	+	0	0	0	0	0	0	+	+	+	+	+	+	+	+	+					
LEAD ACETATE	aqueous, saturated	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
LINSEED OIL	technically pure	+	+	0	0	0	0	0	+	+	+	+	+	+	+	+	+					
LUBRICATING OILS	technically pure	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+					
MAGNESIUM SALTS	all, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+					
MALEIC ACID	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	0	-	+					

= No Data - = Not Recommended 0 = Conditionally Resistant + = Resistant

chemical resistance data

Media ME - SO	Material °C Concentration	PVC-U			PVC-C				ABS			PE			PP				PVDF				EPDM			FPM			
		20	40	60	20	40	60	80	95	20	40	60	80	20	40	60	20	60	80	100	120	20	40	60	80	20	60	80	100
MERCURY	pure	+	+	+	+	+	0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
MERCURY SALTS	cold, saturated, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
METHANE (natural gas)	technically pure	+							+	+	+									+	+	+				+	+	+	
METHANOL	all	+	+	0	+	+	+		-	+	+	+	+	+	+	+	0	-		+	+	+	0	0		0	0		
METHYL ACETATE	technically pure	-			-				-	+	+	0								+	+	+	0			-			
METHYL AMINE	32%, aqueous	0			-				-	+	+									0	+	+				+			
METHYL BROMIDE	technically pure	-			-				-	0										+	+					0			
METHYL CHLORIDE	technically pure	-			-				-	0										+	+					0			
METHYLENE CHLORIDE	technically pure	-			-				-	0										+	0					0			
METHYL ETHYL KETONE	technically pure	-			-				-	+	0	-	+	0						-	-					+	0		
MILK		+	+	+					+	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MOLASSES		+	+	0	+	+	+	+	+	+	0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MONOCHLOROACETIC ACID		0			-				-	+	+	+								+	+	+	+	+	+	+	+	+	+
ETHYL ESTER	technically pure									+	+	+								+	+	+				0			
MONOCHLOROACETIC ACID		0			-				-	+	+	+								+	+	+				0			
METHYL ESTER	technically pure									+	+	+								+	+	+				0			
MORPHOLIN	technically pure	-			-				-	+	+	+								+	+	+				0		+	
NAPHTHALENE	technically pure	-			-				-	+	0	+								0	0					-	+	+	
NICKEL SALTS	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NITRIC ACID	5%, aqueous	+	+	+	+	+	+	+	+	0	-		+	+	+	+	+	+	+	+	+	+	+	+	0	+	0	-	
	up to 40%, aqueous	+	+	0	+	+	+	0		0			0	-	0	-				+	+	+	+	+	0	+	+	0	
	65%, aqueous	0	0	-	+	+	0	0		0	-		0	-	-					+	+	0	0	-		+	-		
NITROBENZENE	technically pure	-			-				-	+	0	+								+	+	-				0			
NITROLUENE (o-, m-, p-)	technically pure	-			-				-	+	+	0	+	0						+	+	+	0	-		0	-		
NITROUS GASES	diluted, moist, anhydrous	+	0						0	+	+	+	+	-						+	+	+	+	+	+	0	+	+	
OLEIC ACID	technically pure	+	+	+	0				+	0	-		+	+	0	+	0			+	+	+	+	-		+	-		
OLIVE OIL		+	+	+	0	0	0		+	+	0	+	+	+	0	+	+	+	+	+	+	+	-		+	+	+		
OXALIC ACID	cold saturated, aqueous	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	0	0	-		+	0	-	
OXYGEN	technically pure	+	+	+					+	+	+	-	+	+	0	+	0			+	+	+	0	0	+	+	+	+	
OZONE	cold saturated, aqueous	+	+						+	+	0	0	-							+	+	0			+	+	+	+	
PALMITIC ACID	technically pure	+			0				-	0										+	+	+	+	0	-	+	-		
PALM OIL, PALM NUT OIL		+	-		0				-	+	+	0	+	0						+	+	+	+	+	0	-	+	+	
PARAFFIN EMULSIONS	usual comm., aqueous	+	+						-	+	+	0	+	0						+	+	+	+	-		+	+	+	
PARAFFIN OIL		+	+	0					+	+	+	0	+	0						+	+	+	+	+		+	+	0	
PERCHLORIC ACID	10%, aqueous	+	+	0	+				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	0	
	70%, aqueous	0			-				-	+	0	-	0							+	+	+	+	+	+	0	+	+	0
PERCHLOROETHYLENE (tetrachloroethylene)	technically pure	-			-				-	0										+	+	0	0	-		+	+		
PETROLEUM	technically pure	+			0	0	0		-	+	+	0	+	0						+	+	+	+	-		+	0		
PETROLEUM ETHER	technically pure	+	+	+	+	+	+		-	+	0	0	+	0						+	+	+	+	-		+	0		
PETROLEUM JELLY	technically pure	0	-						-	0	-	+	0							+	+	+	+	+		+	+	+	
PHENOL	up to 90%, aqueous	0			+	+	+		-	+	+	0	+	+						+	+	+	+	-		+	-	+	
PHENYLHYDRAZINE	technically pure	-			-				-	0										+	+	+	+	0		+	0		
PHENYLHYDRAZINE HYDROCHLORIDE	aqueous	0			-				-	0										+	+				+	+	0	-	
PHOSGENE	gaseous, technically pure	+	0	0	-				-	+	0									+	+	+	+	+	+	+	+	0	
PHOSPHORIC ACID	85%, aqueous	+	+	+	+	+	+	+	+	+	0	-	+	+	0	+	+	+	+	+	+	+	+	+	0	+	+	+	0
PHOSPHOROUS PENTOXIDE	technically pure	+	+	+					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PHOTOGRAPHIC DEVELOPER	usual commercial	+	+	0	+				+	+	0		+	0						+	+	+	+	+	+	+	+		
PHOTOGRAPHIC EMULSION		+	+	+					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PHOTOGRAPHIC FIXER	usual commercial	+	+	0					+	+	0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PTHALIC ACID	saturated, aqueous	+	0	-					-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	-	+		
PICRIC ACID	1%, aqueous	+							-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	
POTASH (potassium carbonate)	cold saturated, aqueous	+	+		+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	0				+	+	+		
POTASSIUM		+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PERMANGANATE	cold saturated, aqueous								-											+	+	+	+	+	+	+	+		
POTASSIUM COMPOUNDS: see SODIUM																				+	+	+	+	+	+	+	+		
PROPANE	technically pure, liquid	+							+											+	+				-	+			
PROPANOL, n- and iso-	technically pure	+	0	0	0	0	0		-	+	+	+	+	+	+	+	+	+	+	+	+	0			+	+	+		
PROPIONIC ACID	50%, aqueous	+	+	0	0	0	0		-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	
PROPYLENE GLYCOL	technically pure	+	+	+					0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	
PROPYLENE OXIDE	technically pure	0			-				-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PYRIDINE	technically pure	-			-				-	+	0	0	0	0						+	0	0	-	+	0	-	0	-	
SILICONE OIL		+	0	-	+	0	0		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	-	+	+	
SILVER SALTS	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SOAP SOLUTION	all, aqueous	+	+	0	+				+	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
SODIUM ACETATE	all, aqueous	+			+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	0	
SODIUM BENZOATE	cold saturated, aqueous	+	+	0	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	0	+	+	0	
SODIUM BICARBONATE	cold saturated, aqueous	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+		
SODIUM BISULPHATE	10%, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+	+	+	+												

chemical resistance data

Media SO - Z	Material °C Concentration	PVC-U			PVC-C			ABS			PE		PP				PVDF				EPDM			FPM									
		20	40	60	20	40	60	80	95	20	40	60	80	20	40	60	20	60	80	100	100	120	20	40	60	80	20	60	80	100	120		
SODIUM CHLORITE	diluted, aqueous	+	+	+	0	0	0	0		+			+	0		+	+	+	0		+	+	+	+	+	+	+	+	+	+	+		
SODIUM CHROMATE	10%, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
SODIUM DISULPHATE	all, aqueous	+	+	0	+	+	+	+		+			+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
SODIUM DITHIONITE (hyposulphite)	up to 10%, aqueous	+	+	0	+	+	+	+		+	+	+	+	+	+		+	0				+	0		+	+	+	+	+	+	+		
SODIUM FLUORIDE	cold saturated, aqueous	+	+		+	+	+	+	+	+	+	0	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
SODIUM HYDROXIDE see CAUSTIC SODA																																	
SODIUM HYPOCHLORITE	aqueous (12.5% active)	+	+	0	+	+	+	+	-				0	-	0	-	0	-			0	-		+		+		+		+			
SODIUM IODIDE	all, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
SODIUM NITRATE	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SODIUM NITRITE	cold saturated, aqueous	+	+		+	+	+	+	+	+	+	0	+	+		+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
SODIUM OXALATE	cold saturated, aqueous	+	+	0	+	+	+	+		+			+	+		+	0				+	0		+	+	+	+	+	+	+	+		
SODIUM PERSULPHATE	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SODIUM PHOSPHATE	cold saturated, aqueous	+	+	0	+	+	+	+	+	-			+	+	+	+	+	+	+	+	+	0	-	+	+	+	+	+	+	+	+		
SODIUM SILICATE	all, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+	+	+	+	0	-		+	0	-	+	+	+	+	+	+	+	+		
SODIUM SULPHATE	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+		+	0	+	+	+	+	+	+	+	+	
SODIUM SULPHIDE	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	0	+	+	+	+	0	0			0	0		+	+	+	+	+	+	+	+		
SODIUM SULPHITE	cold saturated, aqueous	+	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SODIUM THIOSULPHATE	cold saturated, aqueous	+	+	0	+	+	+	+	+	-			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SPIRITS (brandy)	usual commercial	+	+	+	+	+	+	+	-				+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	0	
STANNOUS CHLORIDE	cold saturated, aqueous	+	0	0	+	+	+	+	+	+			+	+	+	+	+	+	+	+		+	+	+	+	0	-	+	+	+	+	0	
STARCH SOLUTION	all, aqueous	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
STEARIC ACID	technically pure	+	+	+	0				+	+			+	0	+	0					+	+	+	+	+	+	+	+	+	+	0		
SUCCINIC ACID	all, aqueous	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SUGAR SYRUP	usual commercial	+	+	0	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SULPHUR	technically pure	0	-						-			+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
SULPHUR DIOXIDE	all, moist	+	+	+	0				-			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+		
	technically pure, liquid	-							-			-	-		-					0			0			+	+	+	+	+			
SULPHUR TRIOXIDE		-							-			-	-		-					0			-			+	+	+	+	+			
SULPHURIC ACID	up to 30%, aqueous	+	+	0	+	+	+	+	+	+	0	0	+	+	+	+	+	+	+	+	+		+	+	0	+	+	0	+	+	0	+	-
	up to 50%, aqueous	+	+	+	+	+	+	+	-	0	-		+	+	+	+	+	+	+	+	+		+	+	0	+	+	0	+	+	0	+	-
	up to 80%, aqueous	+	+	+	+	+	+	+	-				+	+	0	+	0				+	+	0	0	+	+	0	+	+	0	+	0	
	up to 90%, aqueous	+	+	+	+	+	+	-	-				0	0	0		+	+	+	0		0	-	0	-	0	-	+	+	+	+	+	
	up to 96%, aqueous	+	+	0	+	+	+	-	-				-	-	-		+	+	0	-		+	+	0	-	+	+	+	+	+			
SULPHUROUS ACID	saturated, aqueous	+	+	0	+	+	+	+	-				+	+	+	+	+	+	+	+		+	+	+	+	0	-	+	0	-	+	0	
TALLOW	technically pure	+	+	+	0	0	0		+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
TANNIC ACID	all, aqueous	+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
TARTARIC ACID	all, aqueous	+	+	0	+	+	+	+	+	+			0	+	+	+	+	+	+	+		+	+	+	+	0	-	+	+	+	+	+	
TETRACHLOROETHANE	technically pure	-							-			0			0					+	0		0			+	+	+	+	0			
TETRAETHYL LEAD	technically pure	-							-			0			+					+	+	+	+	0			+	+	+	+	+		
TETRAHYDROFURANE	technically pure	-							-			0			0					0	0		0			-			+	+			
THIONYL CHLORIDE	technically pure	-							-			0			-					0	0		0			-			+	+			
TOLUENE	technically pure	-							-			0	-	0	-					+	+	0	-	-			0	-	+	+			
TRIBUTYLPHOSPHATE	technically pure	-							-			+	+	+	+	+				+	+	+	+	+			+	+	+	+	+		
TRICHLOROETHYLENE	technically pure	-							-			+	+	0						+	+	+	+			-			+	+			
TRICHLOROACETIC ACID	50%, aqueous	+	0						-			+	+	+	+	+	+	+	+		+	0	-	0			-			+	+		
TRICHLOROETHANE (methylchloroform)	technically pure	-							-			0		0						+	0	-	-			-			+	+			
1,1,2-TRICHLORO- 1,2,2-TRIFLUOROETHANE (Freon 113)	technically pure	+	+						-											+			+			-			+	+			
TRICESYL PHOSPHATE	technically pure	0							-			+	+	+	+	0				+	+	+	+	+			-			+	+		
TRIETHANOLAMINE	technically pure	0							-			+	+	+	+					+	+	+	+	+			-			+	+		
TRIETHYLAMINE	technically pure	-							-			0		+						0	-		-			-			+	+			
TRIOCTYL PHOSPHATE	technically pure	-							-			0		+						0			-			-			+	+			
TURPENTINE OIL	technically pure	+	0		0	0	0		-			0	0	0	-					+			+			-			+	+			
UREA		+	+	0	+	+	+	+	+	+			+	+	+	+	+	+	+	0		+	+	+	+	+	+	+	+	+	+	+	
URINE		+	+	0	+	+	+	+	+	+			+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
VEGETABLE OILS AND FATS		+	0	0					+	+	+	0	+	0		+	0			+	+	+	+	-			+	+	+	+	+		
VINEGAR		+	+	+	+	+	+	+	+	+	0	-	+	+	+	+	+	+	+	+		+	+	+	+	0	-	0	-	+	+		
VINYL ACETATE		-							-			+	0							+	+	+	+	+			+	+	+	+	+		
VINYL CHLORIDE		-							-			+								+	+	+	+	0			+	+	+	+	+		
WASTE GASES, alkaline		+	+	+	+	+	+	+					+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	0	-		
WASTE GASES containing:													+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
- CARBON OXIDES	all	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	
- HYDROCHLORIC ACID	all	+	+	+	+	+	+	+	+	+	+	+	0			+	+	+	+	+		+	+	+	+	+	0	+	+	+	+	+	
- HYDROGEN FLUORIDE	traces	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																