PVC Chemical Resistance Chart

● Recommended ● Recommended with Restrictions ● Not Recommended ● Non Toxic ● OQ

Chemical	Concentration	TEMPERATURE 20o C	55o C
Acetate Solvents		●	●
Acetic Acid	10%	●	●
Acetic Acid	glacial	●	●
Acetone		●	●
Acrlylonitrile		●	●
Adipic Acid		●	●
Alcohol Butyl		●	●
Alcohol Ethyl		●	●
Alcohol Isorpopyl		●	●
Alcohol Methyl		●	●
Alcohol Acetate		●	
Aluminium Choloride		●	●
Aluminium Hydroxide		●	
Aluminium Sulfate		●	●
Allyl Chloride			
Ammonia	0.88 S.G. (Aqueous)	●	●
Ammonia	dry gas	●	
Ammonia	liquid	●	●
Ammonium Chloride		●	●
Ammonium Hydroxide		●	
Animal Oils			
Amyl Acetae		●	●
Aniline Oils			
Aromatic Hydrocarbons		●	●
Asphalt		●	●
ASTM Fuel A		●	●
ASTM Fuel B		●	●
ASTM # 1 Oil			
ASTM # 3 Oil			
Barium Chloride		●	●
Barium Hydroxide		●	●
Barium Sulfide		●	●

Chemical	Concentration	TEMPERATURE 20o C	55o C
Benzene		●	●
Benzine		●	●
Bordeaux Mixture		●	●
Borax		●	●
Boric Acid		●	●
Brine		●	●
Bromine Traces		●	●
Butyl Acetate		●	●
Calcium Hydroxide		●	●
Calcium Hypochloride		●	●
Carbonic Acid		●	●
Carbon Dioxide		●	●
Carbon Disulphite		●	●
Carbon Monoxide		●	●
Carbon Tetrachloride		●	●
Casein		●	●
Chlorine	dry gas	●	●
Chlorine	wet gas	●	●
Chlorine	water	●	●
Chlorobenzene		●	●
Chlorinated Hydrocarbons		●	●
Chloroform		●	●
Chromic Acid	10%	●	●
Citric Acid		●	●
Coal Tar		●	●
Copper Chloride		●	●
Copper Nitrate		●	●
Copper Sulphate		●	●
Cottonseed Oil			
Creosote		●	●
Cresol		●	●
Cresylic Acid		●	●

Balflex assumes no liability for typographical errors or other errors. For any precise technical information you must always contact our technical department. Dimensions and Data shown may be changed without notice.

Chemical	Concentration	TEMPERATURE 20o C	55o C
Cyclohexane		🟢	🟡
Cyclohexanone		🔴	🔴
DDT Weed Killer		🟢	🟡
Detergent Synthetic		🟢	🟢
Developers Photographic		🟢	🟢
Dextrin		🟢	🟢
Dextrose		🟢	🟢
Dibutyl Phthalate		🔴	🔴
Dichlorobenzene		🔴	🔴
Diesel Oil		⚪	⚪
Diethylene Glycol		🟢	🟢
Diethyl Ether		🔴	🔴
Di-isodecyl Phthalate		🔴	🔴
Dicotyl Phthalate		🔴	🔴
Emulsifiers		🟢	🟢
Emulsions Photographic		🟢	🟢
Ethyl Acetate		🔴	🔴
Ethylene Dichloride		🔴	🔴
Ethylene Glycol		🟢	🟢
Fatty Acid		🟢	🟢
Ferric Chloride		🟢	🟢
Ferric Sulphate		🟢	🟢
Ferrous Chloride		🟢	🟢
Ferrous Sulphate		🟢	🟢
Fixing Solution Photografic		🟢	🟢
Fluorine		🟢	🟢
Formaldehyde	40%	🔴	🔴
Formic Acid	40%	🟢	🟢
Formic Acid	50%	🟡	🔴
Formic Acid	100%	🔴	🔴
Fuel Oil		⚪	⚪
Glacial Acetic Acid		🟡	🔴
Glucose		🟢	🟢
Glycerine		🟢	🟢
Grape Sugar		🔵	🔵
Grease			

Chemical	Concentration	TEMPERATURE 20o C	55o C
Heptane		🟡	🔴
Hexane		🔴	🔴
Hydrobromic Acid		🟢	🟢
Hydrochloric Acid	10%	🟢	🟢
Hydrochloric Acid	40%	🟢	🔴
Hydrofluoric Acid	10%	🟢	🟡
Hydrofluoric Acid	40%	🟢	🔴
Hydrofluoric Acid		🟢	🟢
Hydrofluosilicic Acid		🟢	🟢
HydrogenPeroxide		🟢	
Hydrogen Sulphide		🟢	
Iso-octan		🟢	🟡
Isopropyl Acetate		🔴	🔴
Kerosene		🟡	🟡
Ketones		🔴	🔴
Lactic Acid	10%	🟢	
Lactic Acid	100%	🔴	🔴
Lacquer Solvents		🟡	🔴
Linseed Oils			
Magnesium Chloride		🟢	🟢
Magnesium Hydroxide		🟢	🟢
Magnesium Sulphate		🟢	🟢
Malic Acid		🟢	🟢
Methyl Acetate		🔴	🔴
Methyl Bromide		🔴	🔴
Methyl Ethyl Ketone		🔴	🔴
Methylene Chloride		🔴	🔴
Mineral Oils			
Monochlorobenzene		🔴	🔴
Naphtha		🔴	🔴
Naphthalene		🟡	🔴
Nitric Acid	70%	🟢	🟢
Nitric Acid	40%	🟢	🟡
Nitric Acid	70%	🔴	🔴
Nitrobenzene		🔴	🔴
Nitrogen Fertilizers		🟢	

Balflex assumes no liability for typographical errors or other errors. For any precise technical information you must always contact our technical department. Dimensions and Data shown may be changed without notice.

Chemical	Concentration	TEMPERATURE 20o C	55o C
Oleic Acid		🟢	🟡
Oxalic Acid		🟢	🟢
Palmitic Acid		🟢	🟢
Paraffin		🟢	🟢
Pentane		🟡	🔴
Perchloroethylene		🔴	🔴
Phenol		🟡	🔴
Phosphoric Acid		🟢	🟢
Pitch		🟢	🟡
Potassium Hydroxide		🟢	🟢
Propane		🟢	🟢
Sea Water		🟢	🟢
Sodium Hydroxide (caustic soda)	10%	🟢	🟢
Sodium Hydroxide (caustic soda)	50%	🟢	🟡
Sodium Cyanide		🟢	🟢
Soybean Oil			
Stearic Acid		🟢	🟢
Styrene		🔴	🔴
Sulphur Dioxide	dry	🟢	🟢
Sulphur Dioxide	moist	🟡	🔴
Sulphur Dioxide	liquid	🔴	🔴
Sulphuric Acid	45%	🟢	🟢
Sulphuric Acid	60%	🟡	🟡
Sulphuric Acid	98%	🔴	🔴
Sulphurous Acid	30%	🟢	
Tannic Acid		🟢	🟢
Tartaric Acid		🟢	🟢
Tetrahydrofuran		🔴	🔴
Toluene		🔴	🔴
Trichlorethylene		🔴	🔴
Triethanolamine		🟢	🟢
Tricresyl Phosphate		🔴	🔴
Turpentine		🟡	🔴
Urea		🟢	🟢
Vinegar		🟢	🟢
Vinyl Acetate		🔴	🔴

Chemical	Concentration	TEMPERATURE 20o C	55o C
Vinyl Chloride		🔴	🔴
Water		🟢	🟢
Wine		🔵	🔵
Xylene		🔴	🔴
Zinc Chloride		🟢	🟢
Zinc Sulphate		🟢	🟢

The following data is based on tests and believed to be reliable; however the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested.
Note: All data based on 20°C/70°F unless otherwise noted.

🔵 Recommended the use of Balflex® Food Quality Hoses as Balsteel (12.1227) and QA (12.9050)

⚪ Recommended Balflex® OQ (12.9010)

Balflex assumes no liability for typographical errors or other errors. For any precise technical information you must always contact our technical department. Dimensions and Data shown may be changed without notice.