

Chemical Compatibility – Supor® Syringe Filters from Baxa

This document is intended only as a guide. Users should verify chemical compatibility with a specific filter under actual use conditions. Chemical compatibility with a specific filter under actual use conditions is affected by many variables including temperature, pressure, concentration and purity. Various chemical combinations prevent complete accuracy.

		Supor (PES) Membrane	Modified Acrylic
Acids	Acetic acid, glacial	R	N
	Acetic acid, 90%	R	N
	Acetic acid, 30%	R	I
	Acetic acid, 10%	R	I
	Hydrochloric acid, conc. (35%)	R	L
	Hydrochloric acid, 6N (20%)	R	R
	Hydrochloric acid, 1N (3.3%)	R	R
	Nitric acid, conc. (67%)	N	L
	Nitric acid, 6N (27%)	I	L
	Sulfuric acid, conc. (96%)	N	L
Sulfuric acid, 6N (16%)	I	R	
Alcohols	Amyl alcohol	N	N
	Benzyl alcohol	N	N
	Butanol	R	R
	Ethanol	R	L
	Isopropanol	R	L
	Methanol	R	L
Bases	Ammonium hydroxide, 3N (5.7%)	R	L
	Ammonium hydroxide, 6N (11.4%)	R	N
	Potassium hydroxide, 3N (15%)	R	N
	Sodium hydroxide, 3N (11%)	R	R
	Sodium hydroxide, 6N (22%)	R	L
Esters	Amyl acetate	R	N
	Butyl acetate	R	I
	Cellosolve acetate	R	I
	Ethyl acetate	N	N
	Isopropyl acetate	R	I
	Methyl acetate	N	N

		Supor (PES) Membrane	Modified Acrylic
Ethers	Ethyl ether	R	N
	Tetrahydrofuran	N	N
	Tetrahydrofuran/water (50/50, v/v)	I	I
Glycols	Ethylene glycol	R	R
	Glycerol	R	R
	Propylene glycol	R	R
Aromatic Hydrocarbons	Benzene	R	N
	Toluene	R	N
	Xylene	R	N
Halogenated Hydrocarbons	Carbon tetrachloride	R	N
	Chloroform	N	N
	Ethylene dichloride	N	N
	Methylene chloride	N	N
Ketones	Tetrachloroethylene	R	N
	Acetone	N	N
	Cyclohexanone	N	N
	Methyl ethyl ketone (MEK)	N	N
	Methyl isobutyl ketone	R	N
Oils	Cottonseed	R	L
	Peanut	R	L

		Supor (PES) Membrane	Modified Acrylic
Miscellaneous	Acetonitrile	R	L
	Dimethyl formamide (DMF)	N	N
	Dimethyl sulfoxide (DMSO)	N	N
	Formaldehyde, 37%	R	R
	Formaldehyde, 4%	R	R
	Hexane, dry	L	L
	Kerosene	R	R
	Pyridine	N	N
	18 Megohm water	R	R

R = Resistant
No significant change was observed in flow rate or bubble point of the membrane, nor visible indication of chemical attack.

L = Limited Resistance
Moderate changes in physical properties or dimensions of the membrane were observed. The filter may be suitable for short term, non-critical use. Hardware or housing may be suitable for short-term exposure at low pressures and ambient temperatures.

N = Not Resistant
The membrane or housing is basically unstable and is not recommended for use.

I = Insufficient data
Information not available. Trial testing is recommended.

The information in this chart is compiled from manufacturer's compatibility data, published 2008-09.