Syringe Filters: Chemical Compatibility.

Membrane type:	PES	PVDF	CA
ACIDS			
Acetic 5%	R	R	L
Acetic 10%	R	R	L
Acetic 25%	R	R	N
Acetic, Glacial	R	R	N
Boric	-	-	-
Formic 25%	-	-	L
Hydrochloric 15%	R	L	L
Hydrochloric 25%	R	-	N
Hydrochloric, conc.	L	N	N
Hydrofluoric 10%	-	-	N
Hydrofluoric 35%	-	-	N
Nitric 25%	R	-	N
Nitric 6N, 38%	L	R	N
Nitric, conc.	N	N	N
Phosphoric 25%	R	-	L
Sulphuric 25%	N	-	N
Sulphuric 6N, 29%	N	-	N
Sulfuric, Conc.	N	N	N
Trichloroacetic 10%	-	R	N
ALKALINES			
Ammonium Hydroxide 25%	R	L	N
Formalin 30%	R	-	L
Sodium Hydroxide 3N, 12%	R	R	N
ALCOHOLS			
Amyl Alcohol	N	R	L
Benzyl Alcohol	L	L	L
Butyl Alcohol	L	R	L
Butyl Cellosolve	-	-	N
Ethanol 70%	L	R	L
Ethanol 98%	N	R	N
Ethylene glycol	R	R	L
Glycerol	R	R	L
Isobutyl alcohol	L	L	L
Isopropanol, n-Propanol	R	R	L
Methanol 98%	L	R	N
Methyl Cellosolve	-	-	L
Propylene glycol	R	R	L
Phenol, Aqueous 10%	-	R	-
OXIDES / ETHERS			
DMSO	N	N	N
Dioxane & Tetrahydrofuran	L	L	N
Ethyl Ether	R	R	L
Isopropyl Ether	-	R	-

Membrane type:	PES	PVDF	CA
HYDROCARBONS			
Hexane	L	R	L
Xylene	N	N*	N*
Kerosene	R	R	L
Tetrakin, Decalin	-	R	N
Toluene, benzene	N	R	L
HALOGENATED HYDROCARBONS			
Carbon Tetrachloride	N	N	N
Chloroform	N	R	N
Methylene Chloride	N	N	N
Monochlorobenzene	-	-	N
Trichloethylene	M	R	N
KETONES			
Acetone	N	N	N
Cyclohexanone	N	N	N
Isopropylacetone	-	N	-
Methyl Ethyl Ketone	N	N	N
Methyl Isobutyl Ketone	-	N	N
ESTERS			
Amyl Acetate	L	-	N
Amyl Propyl & Butyl Acetate	-	-	L
Benzyl Benzoate	-	-	-
Butyl Acetate	N	-	N
Ethyl Acetate & Methyl Acetate	N	R/L	N
Isopropyl Myristate	-	-	-
Methyl Cellosolve Acetate	-	-	N
Propylene Glycol Acetate	-	-	-
Tricresyl Phosphate	-	-	-
Isopropyl Acetate	-	R	L
SOLVENTS WITH NITROGEN			
Acetonitrile	N	N	N
Aniline	-	-	N
Diethylacetamide	N	N	N
Dimethyl formamide	N	N	N
Pyridine	N	R	N
Triethanolamine	-	N	-
MISCELLANEOUS			
Formaldehyde Solution 30%	R	R	L
Hyrodgen Peroxide 30%	N	R	N
Silicone Oil & Mineral Oil	R	R	R

PES: Polyethersulfone. PVDF: Polyvinylidenfluoride. CA: Cellulose Acetate.

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

L = Limited Recommended Use. Moderate changes in physical properties. The filter maybe suitable for short term, non-critical use.

N = Not Recommended. The membrane may become unstable.

- = No Info Available.

Chart intended as a guide only. Starlab cannot accept any responsibility for any errors or omissions. Syringe Filter housing is made from polypropylene (PP) which is chemically resistant to all the chemicals listed in this table; it is the chemical resistance of the different types of membranes which is the limiting part.

*The exception is Xylene. PVDF and CA are resistant to Xylene, but PP is not. Therefore we do not recommend filtration of Xylene with these syringe filters.

Syringe Filter Ordering Information

0.22µm, PES (Sterile), Blue, Ø 33mm	100 pcs	**E4780-1226**
0.45µm, PES (Sterile), Yellow, Ø 33mm	100 pcs	**E4780-1456**
0.22µm, PVDF (Sterile), Blue, Ø 33mm	100 pcs	**E4780-1221**
0.45µm, PVDF (Sterile), Yellow, Ø 33mm	100 pcs	**E4780-1451**
0.22µm, CA (Sterile), Blue, Ø 33mm	100 pcs	**E4780-1223**
0.45µm, CA (Sterile), Yellow, Ø 33mm	100 pcs	**E4780-1453**

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