

## Filterware/chemical resistance for membranes and housings

Chemicals	Membranes								Housings				
	C.N.*	C.A./SFCA	GFP	NYL	aPES/PES	PTFE	PVDF	HDPE	PS	PSF	ACR	PP	
Acids	Acetic acid, 25 %	S	M	M	M	S	S	S	S	M	M	M	S
	Acetic acid, 100% (glacial)	U	U	M	M	M	S	S	S	U	U	U	S
	Formic acid, 25%	S	M	S	U	S	S	S	S	U	M	M	S
	Formic acid, 100%	M	U	S	U	M	S	S	S	U	U	U	S
	Hydrochloric acid, 25%	U	U	S	U	S	S	S	S	S	M	M	S
	Hydrochloric acid, 37% (conc.)	U	U	S	U	S	S	S	S	M	U	M	S
	Nitric acid, 25%	M	M	M	U	U	S	M	S	U	M	M	S
	Nitric acid, 60%	U	U	S	U	U	S	U	M	U	U	U	M
	Phosphoric acid, 25%	S	S	—	U	—	S	S	S	M	S	M	S
	Sulfuric acid, 25%	S	M	S	U	U	S	S	S	S	S	S	S
Sulfuric acid, 98% (conc.)	U	U	M	U	U	S	U	M	U	U	U	M	
Alcohols	Amyl alcohol	S	S	S	S	U	S	S	S	M	M	M	S
	Benzyl alcohol	M	M	S	S	U	S	S	M	U	U	U	S
	Ethanol (ethyl alcohol), 70%	M	S	S	S	U/S	S	S	S	M	S	U	S
	Ethanol (ethyl alcohol), 98%	U	S	S	S	U/S	S	S	S	M	M	U	S
	Ethylene glycol	M	S	S	S	M/S	S	S	S	S	S	M	S
	Glycerol	S	S	S	S	M/S	S	S	S	S	S	M	S
	Isopropanol M	S	S	S	M/S	S	S	S	S	M	U	S	—
	Methanol (methyl alcohol), 98%	U	S	S	S	M/S	S	S	S	M	M	U	S
	n-Propanol (propyl alcohol)	M	M	S	S	M/S	S	S	S	S	M	U	S
	Phenol	U	U	S	S	U	S	M	U	U	U	U	U
Propylene glycol	U	M	S	S	M	S	S	S	S	M	M	S	
Bases	Ammonium hydroxide, 25%	U	M	U	S	U	S	M	S	M	U	S	S
	Ammonium hydroxide, 1N	S	S	S	S	S	S	S	S	S	S	S	S
	Potassium hydroxide, 1N	U	U	S	S	S	S	S	S	S	M	S	S
	Sodium hydroxide, 5%	U	M	S	S	S	S	S	S	S	M	S	S
	Sodium hydroxide, 1N	U	M	S	S	U/M	S	S	S	S	S	S	S
	Sodium hydroxide, 6N	U	U	M	M	U/M	S	U	S	S	U	S	S
Esters	Amyl acetate	U	M	S	S	U	S	M	S	U	U	U	S
	Benzyl benzoate	S	S	S	S	U	S	M	M	U	U	U	M
	Butyl acetate	U	M	S	S	U	S	M	S	U	U	U	M
	Ethyl acetate, Methyl acetate	U	U	S	S	U	S	M	M	U	U	U	M
	2-Ethoxyethyl acetate	U	U	S	S	S	S	—	S	—	U	—	S
	Methyl cellosolve acetate	U	U	S	U	S	S	U	—	U	U	M	M
	Propyl acetate	U	M	S	S	U	S	M	S	U	U	U	M
<b>Key</b>	<b>S</b>	Satisfactory		<b>C.N.</b>	Cellulose nitrate			<b>PTFE</b>	Teflon PTFE				
	<b>M</b>	Marginal, may be satisfactory for short-term contact and/or small volume filtration. Trial testing is advised.		<b>SFCA</b>	Surfactant-free cellulose acetate			<b>PS</b>	Polystyrene				
	<b>U</b>	Unsatisfactory		<b>GFP</b>	Glass-fiber prefilter			<b>PSF</b>	Polysulfone				
	<b>—</b>	No data available		<b>HDPE</b>	High Density Polyethylene			<b>ACR</b>	Acrylic				
	<b>C.A.</b>	Cellulose acetate		<b>NYL</b>	Nylon			<b>PP</b>	Polypropylene				
				<b>aPES</b>	Asymmetric PES			<b>PVDF</b>	Polyvinylidene fluoride				
				<b>PES</b>	Polyethersulfone								

\*Do not use C.N. membranes for EDTA or TRIS.

## Filterware/chemical resistance for membranes and housings (continued)

Chemicals	Membranes								Housings				
	C.N.*	C.A./SFCA	GFP	NYL	aPES/PES	PTFE	PVDF	HDPE	PS	PSF	ACR	PP	
Hydrocarbons (aliphatic)	Gasoline	S	S	S	S	M	S	S	M	U	U	U	M
	Hexane	S	S	S	S	U	S	S	S	U	M	M	M
	Kerosene	S	S	S	S	S	S	S	M	U	M	U	M
Hydrocarbons (aromatic)	Toluene	S	S	S	S	U/M	S	S	U	U	U	U	M
	Xylene	S	S	S	S	U	S	S	M	U	U	U	M
Hydrocarbons (halogenated)	Carbon tetrachloride	S	M	S	S	U	S	S	S	U	U	U	M
	Chloroform	S	U	S	S	U	S	S	M	U	U	U	U
	Freon	S	S	S	S	M	S	S	S	U	U	U	M
	Methylene chloride	M	U	S	S	U	S	S	M	U	U	U	M
	Monochlorobenzene	S	S	S	S	U	S	S	U	U	U	U	U
	Perchloroethylene	S	S	S	S	M	S	S	U	U	U	U	M
	1,1,1-Trichloroethane	M	U	S	S	M	S	S	M	U	U	U	U
	1,1,2-Trichloroethane	U	U	S	S	M	S	S	M	U	U	U	U
Trichloroethylene	S	U	S	S	S/S	S	S	U	U	U	U	M	
Ketones	Acetone	U	U	S	S	U	S	U	U	U	U	U	M
	Cyclohexanone	U	U	S	S	U	S	M	M	U	U	U	M
	Methyl ethyl ketone	U	U	S	S	U	S	U	U	U	U	U	M
Miscellaneous	Acetonitrile	U	U	S	S	M	S	S	S	U	U	U	S
	Acrylamide	S	S	S	S	S	S	S	S	S	S	S	S
	Dimethylsulfoxide (DMSO)	U	U	S	S	U	S	U	S	M	U	U	S
	Dioxane	U	U	S	S	M	S	M	S	U	U	U	S
	Ethyl ether	M	M	S	S	S	S	S	M	U	U	U	M
	Formaldehyde, 30%	S	M	S	S	S	S	S	S	U	M	U	S
	Hydrogen peroxide, 30%	U	S	S	S	—	S	S	S	S	S	M	S
	Methyl cellosolve	U	U	S	S	—	S	S	—	U	U	U	S
	Pyridene	U	U	S	M	U	S	U	U	U	U	U	U
Tetrahydrofuran	U	U	S	S	U	S	U	M	U	U	U	U	

  

<b>Key</b>	<b>S</b> Satisfactory	<b>C.N.</b> Cellulose nitrate	<b>PTFE</b> Teflon PTFE
<b>M</b> Marginal, may be satisfactory for short-term contact and/or small volume filtration. Trial testing is advised.	<b>SFCA</b> Surfactant-free cellulose acetate	<b>PS</b> Polystyrene	<b>PSF</b> Polysulfone
<b>U</b> Unsatisfactory	<b>GFP</b> Glass-fiber prefilter	<b>ACR</b> Acrylic	<b>PP</b> Polypropylene
<b>—</b> No data available	<b>HDPE</b> High Density Polyethylene	<b>PP</b> Polypropylene	<b>PVDF</b> Polyvinylidene fluoride
<b>C.A.</b> Cellulose acetate	<b>NYL</b> Nylon		
	<b>aPES</b> Asymmetric PES		
	<b>PES</b> Polyethersulfone		

\*Do not use C.N. membranes for EDTA or TRIS.

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