

Syringe Filter Membrane Compatibility Chart

Use this information to determine the ability of a specific syringe filter membrane to withstand exposure to solvent.

All concentrations are 100% unless noted.

Chemical	PTFE	PTFEH	PES	CA	RC	PP	GMF
ACIDS							
Acetic, Glacial	LC	C	C	C	IC	C	C
Acetic, 25%	C	C	C	C	CA	C	C
Hydrochloric, Concentrated	IC	C	C	C	IC	IC	C
Hydrochloric, 25%	IC	C	C	C	IC	IC	C
Sulfuric, Concentrated	IC	C	IC	IC	IC	IC	C
Sulfuric, 25%	IC	C	C	C	IC	IC	C
Nitric, Concentrated	IC	C	C	IC	IC	IC	C
Nitric, 25%	IC	C	C	C	IC	IC	C
Phosphoric, 25%	IC	C	ND	ND	CA	LC	C
Formic, 25%	IC	C	ND	ND	LC	C	C
Trichloroacetic, 10%	IC	C	ND	ND	CA	C	C
ALCOHOLS							
Methanol, 98%	C	C	C	C	C	C	C
Ethanol, 98%	C	C	C	C	C	C	C
Ethanol, 70%	LC	C	C	C	C	C	C
Isopropanol	C	C	C	C	C	C	C
n-Propanol	C	C	C	C	C	C	C
Amyl Alcohol (Butanol)	C	C	C	C	C	C	C
Benzyl Alcohol	C	C	C	ND	LC	C	IC
Ethylene Glycol	C	C	C	C	C	C	C
Propylene Glycol	C	C	C	C	LC	C	C
Glycerol	C	C	C	C	C	C	C
ALKALIES							
Ammonium Hydroxide, 25%	C	C	LC	C	C	LC	C
Sodium Hydroxide, 3N	C	C	C	C	IC	LC	C
AMINES AND AMIDES							
Dimethyl Formamide	LC	C	IC	IC	IC	LC	C
Diethylacetamide	C	C	ND	ND	IC	C	ND
Triethanolamine	C	C	ND	ND	C	C	ND
Aniline	ND	C	ND	ND	IC	C	ND
Pyridine	C	C	IC	IC	IC	C	IC
Acetronile	C	C	C	LC	IC	C	C
ESTERS							
Ethyl Acetate/Methyl Acetate	C	C	C	IC	IC	C	LC
Amyl Acetate/Butyl Acetate	C	C	IC	IC	LC	C	LC
Propyl Acetate	C	C	IC	IC	LC	C	LC
Propylene Glycol Acetate	ND	C	ND	IC	IC	C	C
2-Ethoxyethyl Acetate	ND	C	ND	IC	LC	C	ND
Methyl Cellulose	ND	C	ND	IC	IC	C	C

Chemical	PTFE	PTFEH	PES	CA	RC	PP	GMF
Benzyl Benzoate	C	C	ND	IC	C	C	ND
Isopropyl Myristate	C	C	ND	IC	C	C	ND
Tricresyl Phosphate	ND	C	ND	IC	C	C	ND
HALOGENATED HYDROCARBONS							
Methylene Chloride	LC	C	C	IC	IC	C	LC
Chloroform	C	C	C	IC	IC	C	LC
Trichloroethylene	C	C	C	IC	C	C	C
Chlorobenzene	C	C	C	LC	C	C	C
Freon	C	C	C	LC	C	C	C
Carbon Tetrachloride	C	C	C	IC	LC	C	LC
HYDROCARBONS							
Hexane/Xylene	C	C	C	IC	C	C	IC
Toluene/Benzene	C	C	C	IC	C	C	IC
Kerosene/Gasoline	C	C	C	LC	C	C	IC
Tetralin/Decalin	ND	C	C	ND	C	C	ND
KETONES							
Acetone	C	C	IC	IC	IC	C	C
Cyclohexanone	C	C	IC	IC	IC	C	C
Methyl Ethyl Ketone	C	C	LC	IC	LC	C	LC
Isopropylacetone	C	C	IC	IC	C	C	ND
Methyl Isobutyl Ketone	ND	C	LC	IC	ND	C	LC
ORGANIC OXIDES							
Ethyl Ether	C	C	C	C	C	LC	LC
Dioxane	C	C	LC	IC	C	C	C
Tetrahydrofuran	C	C	LC	IC	C	C	C
Triethanolamine	C	C	ND	C	C	ND	ND
Dimethylsulfoxide (DSMO)	C	C	IC	IC	C	C	C
Isopropyl Ether	ND	C	C	C	C	C	ND
MISCELLANEOUS							
Phenol, Aqueous Sol., 10%	ND	C	LC	IC	IC	IC	C
Formaldehyde, Aqueous Sol. 30%	C	C	C	C	C	LC	C
Hydrogen Peroxide, 30%	C	C	ND	ND	C	C	ND
Silicone Oil/Mineral Oil	ND	C	C	C	C	C	C

Legend

C	Compatible
LC	Limited Compatibility (membrane may swell and shrink)
IC	Incompatible (not recommended)
ND	No compatibility data currently available

PTFE	Polytetrafluoroethylene (Teflon®)
PTFEH	Hydrophilic Polytetrafluoroethylene (Teflon®)
PVDF	Polyvinylidene
PES	Polyethersulfone
CA	Cellulose Acetate
RC	Regenerated Cellulose
PP	Polypropylene
GMF	Glass MicroFiber