

Membrane & Syringe Filter Chemical Compatibility Chart



- Not compatible
- + Semi compatible
- ++ Fully compatible

	Cellulose Acetate	Cellulose nitrate	Mixed Cellulose Esters	Nylon (polyamide)	Polyethersulfone	Polypropylene	Polytetrafluoroethylene	Polyvinylidene fluoride
MEMBRANE	CA	CN	MCE	Nylon	PES	PP	PTFE	PVDF
HOUSING	PP	PP	PP	PP	PP	PP	PP	PP
Sterilisation								
Ethylene Oxide	++	++	++	++	++	++	++	++
Gamma Irradiation	++	++	++	++	++	++	++	++
Autoclaving @ 121°C, 30 mins	++	++	++	++	++	++	++	++
Solvents								
Acetone	-	-	-	++	-	+	++	-
Acetonitrile	-	-	-	-	-	+	++	-
Benzene	+	++	++	++	-	-	++	+
Benzyl Alcohol	-	+	+	++	-	+	++	+
n-Butyl Acetate	-	-	-	++	-	+	++	+
n-Butanol	+	++	++	++	+	+	++	+
Cellosolve	-	-	-	++	-	+	++	+
Chloroform	-	++	++	++	-	+	++	+
Cyclohexane	+	+	+	++	-	+	++	+
Cyclohexanone	+	-	-	++	-	+	++	-
Diethylacetamide	-	-	-	++	-	-	++	+
Diethyl Ether	+	-	-	++	-	-	++	+
Dimethylformamide	-	-	-	+	-	+	++	+
Dimethylsulfoxide	-	-	-	++	-	+	++	+
Dioxane	-	-	-	++	-	+	++	+
Ethanol, 98%	+	-	-	++	-	+	++	+
Ethyl Acetate	-	-	-	++	-	-	++	+
Ethylene Glycol	+	+	+	++	++	-	++	+
Formamide	-	-	-	++	++	-	++	+
Glycerin	+	++	++	++	+	++	++	+
n-Heptane	+	++	++	++	+	-	++	+
n-Hexane	+	++	++	++	+	-	++	+
Isobutanol	+	+	+	++	++	+	++	+
Isopropanol	+	+	+	++	-	+	++	+
Isopropyl acetate	-	-	-	++	-	-	++	-
Methanol, 98%	-	-	-	++	+	+	++	+
Methyl acetate	-	-	-	++	-	-	++	+
Methylene chloride	-	+	-	++	-	-	++	+
Methyl ethyl ketone	-	-	-	++	-	-	++	-
Methyl isobutyl ketone	-	-	-	++	-	-	++	-
Monochlorobenzene	-	++	-	++	-	+	++	+
Nitrobenzene	-	+	-	+	-	+	++	+
n-Pentane	+	++	++	++	+	-	++	+
Perchloroethylene	-	++	++	++	-	-	++	+
Pyridine	-	-	-	++	-	-	++	+
Carbon tetrachloride	-	++	++	++	-	-	++	-
Tetrahydrofuran	-	-	-	++	-	+	++	+
Toluene	+	++	++	++	-	-	++	+
Trichloroethane	-	++	++	++	-	+	++	+
Trichloroethylene	+	++	++	++	-	+	++	+
Xylene	+	++	++	++	-	-	++	+

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HOUSING	PP	PP	PP	PP	PP	PP	PP	PP
Acids								
Acetic acid, 25%	+	+	+	-	-	+	++	+
Acetic acid, 80%	-	-	-	-	-	+	++	+
Hydrofluoric acid, 25%	-	+	-	-	+	+	++	+
Hydrofluoric acid, 50%	-	+	-	-	+	+	++	+
Perchloric acid, 25%	-	+	+	-	-	+	++	-
Phosphoric acid, 25%	+	+	+	-	+	+	++	-
Phosphoric acid, 86%	+	+	+	-	+	+	++	-
Nitric acid, 30%	-	+	+	-	+	+	++	+
Nitric acid, 65%	-	-	-	-	-	+	++	+
Hydrochloric acid, 15%	+	+	+	-	+	+	++	+
Hydrochloric acid, 20%	-	-	-	-	+	+	++	+
Sulphuric acid, 25%	-	-	+	-	+	+	++	-
Sulphuric acid, 98%	-	-	-	-	-	+	++	-
Trichloroacetic acid, 25%	-	+	+	-	-	+	++	-
Bases								
Ammonia, 1N	-	++	++	++	-	+	++	+
Ammonium hydroxide, 25%	+	-	+	++	-	+	++	+
Potassium hydroxide, 25%	-	-	-	+	-	+	++	+
Sodium hydroxide, 32%	-	-	-	+	-	+	++	+
Sodium hydroxide, 1N	-	-	-	++	-	+	++	+
Aqueous solutions								
Formalin, 30%	++	++	++	++	+	+	++	+
Sodium hypochlorite, 5%	-	+	-	-	+	+	++	-
Hydrogen peroxide, 35%	-	++	-	-	+	-	++	-

This chemical compatibility chart serves as a general guide. We strongly advise confirming compatibility with the liquid intended for filtration by conducting a trial filtration run prior to commencing the actual filtration process.