

Chemical Compatibility Chart*

Chemical	Housing	Membrane								
	PP	CA	CME	GF	Nylon	PES	PP	PTFE	PVDF	RC
ACIDS										
Acetic acid (glacial)	+	-	-	+	+	++	+	++	++	++
Acetic acid (25%)	+	++	+	++	++	++	+	++	++	++
Hydrochloric acid (concentrated)	0	-	-	++	-	++	0	++	++	-
Hydrochloric acid (20%)	+	-	-	++	-	++	+	++	++	-
Sulfuric acid (concentrated)	+	-	-	++	-	-	+	++	-	-
Sulfuric acid (25%)	++	-	-	++	-	++	++	++	++	+
Nitric acid (concentrated)	-	-	-	+	-	-	-	++	++	-
Nitric acid (25%)	+	-	-	++	-	++	+	++	++	-
Phosphoric acid (25%)	+	++	++	0	-	0	+	++	0	+
Formic acid (25%)	++	+	+	++	-	0	++	++	0	++
Trichloroacetic acid (10%)	+	++	++	++	-	0	+	++	0	++
ALKALIES										
Ammonium hydroxide (25%)	+	++	+	+	++	++	+	++	+	+
Sodium hydroxide (1N)	++	-	-	+	++	++	++	++	++	+
ALCOHOLES										
Methanol (98%)	+	++	-	++	++	++	+	++	++	++
Ethanol (98%)	+	++	-	++	++	++	+	++	++	++
Ethanol (70%)	++	+	0	++	+	++	++	++	++	++
Isopropanol, n-propanol	++	++	+	++	++	++	++	++	++	++
Amyl alcohol, butanol	++	++	++	++	++	++	++	++	++	++
Benzyl alcohol	+	+	+	++	++	0	+	++	++	++
Ethylene glycol	++	++	+	++	++	++	++	++	++	++
Propylene glycol	++	+	-	++	++	++	++	++	++	++
Glycerol	++	++	++	++	++	++	++	++	++	++
HYDROCARBONS										
Hexane, xylene	+	++	++	++	++	-	-	++	++	++
Toluene, benzene	+	++	++	++	++	-	-	++	++	++
Kerosene, gasoline	+	++	++	++	++	+	+	++	++	++
Tetraclin, decalin	0	++	++	0	0	0	0	++	++	++
HALOGENATED HYDROCARBONS										
Methylene chloride	+	-	-	++	+	-	+	++	++	++
Chloroform	+	-	0	++	++	-	+	++	++	++
Trichloroethylene	+	++		++	++	-	+	++	++	++
Monochlorobenzene, freon	+	++	++	++	++	+	+	++	++	++
Carbontetrachloride	-	+	++	++	++	-	-	++	++	++
KETONES										
Acetone, cyclohexanone	++	-	-	++	++	-	++	++	-	++
Methyl ethyl ketone (MEK)	+	+	-	++	++	-	+	++	+	++
Isopropylacetone	0	++	+	++	++	-	0	++	-	++
Methyl isobutyl ketone	+	0	0	++	0	-	+	++	+	++

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ESTERS										
Ethyl acetate, methyl acetate	+	+	-	++	++	-	+	++	++	++
Amyl, propyl & butyl acetate	+	-	-	++	++	-	+	++	0	++
Propylene glycol acetate	+	+	-	0	0	-	+	++	0	++
2-Ethoxyethyl acetate	0	-	-	0	0	-	0	++	0	++
Methyl cellosolve acetate	+	++	-	++	0	-	+	++	0	++
Benzyl benzoate	0	++	++	0	++	-	0	++	0	++
Isopropyl myristate	0	++	+	0	++	-	0	++	0	++
Tricresyl phosphate	0	++	+	0	0	-	0	++	0	++
ORGANIC OXIDES										
Ethyl ether	-	++	+	++	++	++	-	++	++	++
Dioxane & tetrahydrofuran (THF)	+	-	-	++	++	-	+	++	+	++
Dimethylsulfoxide (DMSO)	++	-	-	++	++	-	++	++	-	++
Isopropyl ether	+	++	+	0	0	++	+	++	++	++
SOLVENTS WITH NITROGEN										
Dimethyl formamide (DMF)	+	-	-	++	+	-	++	++	-	+
Diethylacetamid	++	-	-	++	++	0	0	++	0	++
Triethanolamine	0	++	++	0	++	0	0	++	0	++
Aniline	0	-	+	0	0	0	0	++	0	++
Pyridine	+	-	-	++	++	-	+	++	++	++
Acetonitrile (ACN)	++	-	0	++	++	-	+	++	++	++
MISCELLANEOUS										
Phenol, aqueous (10%)	0	-	-	++	0	-	0	++	+	-
Formaldehyde solution (30%)	++	++	++	++	++	++	++	++	++	+
Hydrogene peroxide (30%)	0	++	-	0	++	0	0	++	0	++
Silicone oil & mineral oil	++	++	++	++	0	++	++	++	++	++
STERILIZATION										
Autoclaving 121 °C, 30 min	++	-	-	-	++	-	0	++	0	++

LEGEND

++ = Compatible
+ = Limited Compatible (testing before use, material may stress crack, swell and/or shrink)
- = Not Compatible
0 = No Data Available

CA = Cellulose Acetate
CME = Cellulose Mixed Esters
GF = Glass Fiber
Nylon = Polyamide (PA)
PES = Polyethersulfone
PP = Polypropylene
PTFE = Polytetrafluoroethylene
PVDF = Polyvinylidene Diflouride
RC = Regenerated Cellulose

*The information on chemical compatibility only relates to short-term contact at room temperature for the normal filtration process and does not indicate long-term stability of the membrane or the housing against these chemicals.
We recommend that you always confirm compatibility with the liquid you want to filter by performing a test.