

## CHEMICAL COMPATIBILITY OF SYRINGE FILTERS

R = resistant

L = limited resistance (test run is recommended)

N = not recommendable

n.a. = not analyzed

		MEMBRANE MATERIAL						HOUSING	
		cellulose acetate	polyether sulfone	nylon	PTFE	PVDF	RC	modified acrylic	polypropylene
CHEMICAL									
ACID	acetic acid, 5 %	R	R	R	R	R	R	N	R
	acetic acid, 10 %	N	R	L	R	R	R	N	R
	acetic acid glacial	N	R	N	R	R	R	N	L
	boric acid	R	n.a.	L	R	n.a.	n.a.	N	R
	hydrofluoric acid, 10%	N	n.a.	N	R	R	L	n.a.	R
	hydrofluoric acid, 35%	N	n.a.	N	n.a.	R	N	n.a.	n.a.
	nitric acid, 6N	L	N	N	L	n.a.	N	N	n.a.
	nitric acid, conc.	N	N	N	N	R	N	N	n.a.
	hydrochloric acid, 6N	L	R	N	R	L	N	N	n.a.
	hydrochloric acid, conc.	N	R	N	R	R	N	N	n.a.
	sulphuric acid, 6N	L	n.a.	N	L	R	L	N	n.a.
	sulphuric acid, conc.	N	N	N	N	n.a.	N	N	n.a.
	ALCOHOL	amyl alcohol	R	N	R	R	R	R	N
benzyl alcohol		L	N	L	R	R	R	R	R
butyl alcohol		R	R	R	R	R	n.a.	R	R
2-butoxyethanol		L	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
ethanol <80%		R	R	R	R	R	n.a.	L	n.a.
ethanol >80%		R	R	R	R	R	n.a.	L	n.a.
ethylene-glycol		R	R	R	R	R	R	n.a.	R
glycerol		R	R	R	R	R	R	n.a.	R
isobutyl alcohol		R	n.a.	R	R	R	n.a.	R	n.a.
isopropanol		R	R	R	R	R	R	n.a.	n.a.
methanol		R	R	L	R	R	R	R	n.a.
2-methoxyethanol		L	n.a.	R	R	R	n.a.	n.a.	n.a.
propanol		R	n.a.	R	R	R	R	n.a.	R
BASE	ammonium hydroxide, 6N	N	R	N	R	R	L	R	n.a.
	potassium hydroxide, 6N	N	n.a.	R	R	R	L	n.a.	n.a.
	sodium hydroxide, 6N	N	R	N	R	R	L	n.a.	n.a.
SOLVENT	acetone	N	N	R	R	N	R	N	R
	acetonitrile	N	R	R	R	R	R	N	R
	amyl acetate	L	L	R	R	R	R	N	L
	aniline	N	R	R	R	n.a.	R	n.a.	L
	benzene	L	R	R	L	R	R	N	L
	bromoform	N	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
	butyl acetate	L	L	R	R	n.a.	R	N	L
	Cellosolve™	R	n.a.	R	R	n.a.	R	N	n.a.
	chloroform	N	N	R	L	R	R	N	L
	cyclohexane	R	n.a.	R	R	n.a.	R	N	R
	cyclohexanone	N	N	R	R	N	R	N	R
	diethyl acetamide	N	n.a.	R	N	n.a.	R	N	n.a.
	dimethyl formamide	N	N	R	R	N	L	N	R

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<b>CHEMICAL</b>								
dimethylsulfoxid (DMSO)	N	N	R	R	N	R	N	n.a.
dioxane	N	L	R	R	R	R	N	R
ethyl ether	L	R	R	R	R	R	N	N
ethylene dichloride	L	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
formaldehyde	L	R	R	R	R	n.a.	N	R
Freon® TF	R	R	R	R	R	n.a.	L	n.a.
gasoline	R	n.a.	R	R	R	R	N	N
hexane	R	n.a.	R	R	R	R	N	n.a.
isopropyl acetate	N	n.a.	R	R	N	R	N	R
kerosene	R	n.a.	R	R	R	R	N	n.a.
methyl acetate	N	n.a.	R	R	R	R	N	R
methylene chloride	N	N	L	R	R	R	N	N
methyl ethyl ketone (MEK)	N	N	R	R	N	R	N	n.a.
methyl isobutyl ketone	N	n.a.	R	R	N	R	N	n.a.
nitrobenzene	N	N	R	R	R	R	N	R
pentane	R	R	R	L	R	R	N	n.a.
perchloroethylene	R	N	R	R	n.a.	R	N	L
pyridine	N	N	R	R	N	R	N	L
tetrachloromethane	L	R	R	L	R	R	N	N
tetrahydrofuran	N	N	L	L	N	R	N	L
toluene	L	N	R	L	R	R	N	L
trichloroethane	L	R	R	R	n.a.	R	N	n.a.
trichloroethylene	R	R	R	L	R	R	N	N
triethylamine	R	n.a.	R	R	n.a.	R	n.a.	n.a.
xylene	R	L	R	L	R	R	N	R
<b>OTHERS</b>								
cotton seed oil	R	n.a.	R	R	n.a.	n.a.	n.a.	R
hydrogen peroxide, 30%	R	n.a.	R	R	R	R	n.a.	R
Kodak KMER FTFR	N	n.a.	R	R	n.a.	n.a.	N	n.a.
peanut oil	R	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
petroleum oil	n.a.	L	n.a.	n.a.	R	R	n.a.	R
sesame oil	R	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
Shipley (AS- 111,340,1350)	N	n.a.	R	R	n.a.	n.a.	N	n.a.
silicone oil	R	R	R	R	R	R	n.a.	R
turpentine	R	n.a.	R	R	n.a.	n.a.	n.a.	n.a.
Waycoat 59	N	n.a.	R	R	n.a.	n.a.	N	n.a.

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