



Darlly Syringe Filters

Description

Hydrophilic PTFE Syringe Filters

Benefits

- Avoid the expense and inconvenience of keeping a variety of filters on hand. Versatile filter for aqueous and aggressive organic solvent-based solutions.
- Accurate analysis. HPLC certified for low levels of UV-absorbing extractables.
- Low protein binding membrane.
- Easy filtration of particulate-laden samples with glass fiber prefilter version.
- No pretreatment is required.

Application

- Highly recommended for filtering HPLC samples.
- Available in 0.22 µm for UHPLC applications.

Specification

Pore Size: 0.22µm/0.45µm

Membrane: Hydrophilic PTFE

Hydrophobic PTFE Syringe Filters

Benefits

- Ideal for filtration of gas and/or organic solvents.
- Prevents spurious peaks on chromatograms for accurate experimental results.
- HPLC certified for low levels of UV-absorbing extractables.

Application

- Filtering harsh chemicals.
- Moisture barrier for venting applications.
- HPLC/UHPLC Sample Preparation.

Specification

Pore Size: 0.22µm/0.45µm/1µm

Membrane: Hydrophobic PTFE

Nylon Syringe Filters

Benefits

- Excellent chemical compatibility with esters, bases, and alcohols.
- Low extractable
- Inherently hydrophilic: Saves time because no pretreatment is required

Application

- Good for cryoprotectants such as DMSO
- Filtration of aqueous biological solutions, alcoholic solutions
- HPLC/UHPLC Sample Preparation
- Not recommended for acids > 1 N or halogenated solvents
- Recommended for aqueous samples only

Specification

Pore Size: 0.22µm/0.45µm

Membrane: Nylon

PES Syringe Filters

Benefits

- Accurate results for the most sensitive analysis of ionic species.
- Low Protein Binding and extractable.
- High flow rates.

Application

- Specifically designed for IC applications
- Excellent filter selection for dissolution samples
- Low drug and protein binding for pharmaceutical filtration
- Recommended for aqueous samples only

Specification

Pore Size: 0.22µm/0.45µm/1µm

Membrane: PES

Description

Hydrophobic PVDF Syringe Filters

Benefits

- Hydrophobic Membrane Compatible
- with a Wide Variety of Solvents
- Protects columns and instrumentation against particulate build up

Application

- Offers excellent chemical compatibility, even with aggressive acids and alcohols
- HPLC/UHPLC Sample Preparation
- Not recommended for acetone, DMF, DMSO, or bases > 6N

Specification

Pore Size: 0.22µm/0.45µm

Membrane: Hydrophobic PVDF

Glass Fiber Syringe Filters

Benefits

- Allowing quick and easy filtration of most difficult-to-filter samples
- Reduces clogging can use alone or in series with final membrane filter to increase flow rate
- Ensures broad chemical compatibility with polypropylene housing.

Application

- For difficult-to-Filter Samples
- HPLC/UHPLC Sample Preparation
- Removes particulate that interferes with UV/VIS spectrophotometric analysis

Specification

Pore Size: 0.22µm/0.45µm

Membrane: Glass Fiber

MCE (Mixed Cellulose Ester) Syringe Filters

Benefits

- Low Pressure Drop
- High partial retention
- Low Protein Binding and extractable

Application

- Ideal for buffers, aqueous reagents and solutions

Specification

Pore Size: 0.22µm/0.45µm

Membrane: MCE (Mixed Cellulose Ester)



Ordering Information

Membrane	Pore Size	Diameter	Housing	IN/OUT Connection	Quantity Pack	Part Number
Hydrophobic PTFE Membrane	0.22μm	13mm	PP	N1	100	013PT0022N1A
	0.22μm	25mm	PP	N1	100	025PT0022N1A
	0.45μm	13mm	PP	N1	100	013PT0045N1A
	0.45μm	25mm	PP	N1	100	025PT0045N1A
Hydrophilic PTFE Membrane	0.22μm	13mm	PP	N1	100	013PD0022N1A
	0.22μm	25mm	PP	N1	100	025PD0022N1A
	0.45μm	13mm	PP	N1	100	013PD0045N1A
	0.45μm	25mm	PP	N1	100	025PD0045N1A
Nylon Membrane	0.22μm	13mm	PP	N1	100	013PC0022N1A
	0.22μm	25mm	PP	N1	100	025PC0022N1A
	0.45μm	13mm	PP	N1	100	013PC0045N1A
	0.45μm	25mm	PP	N1	100	025PC0045N1A
PES Membrane	0.22μm	13mm	PP	N1	100	013PA0022N1A
	0.22μm	25mm	PP	N1	100	025PA0022N1A
	0.45μm	13mm	PP	N1	100	013PA0045N1A
	0.45μm	25mm	PP	N1	100	025PA0045N1A
Hydrophobic PVDF Membrane	0.22μm	13mm	PP	N1	100	013PV0022N1A
	0.22μm	25mm	PP	N1	100	025PV0022N1A
	0.45μm	13mm	PP	N1	100	013PV0045N1A
	0.45μm	25mm	PP	N1	100	025PV0045N1A
MCE Membrane	0.22μm	13mm	PP	N1	100	013PM0022N1A
	0.22μm	25mm	PP	N1	100	025PM0022N1A
	0.45μm	13mm	PP	N1	100	013PM0045N1A
	0.45μm	25mm	PP	N1	100	025PM0045N1A
Glass Fiber(GF) Membrane	0.22μm	13mm	PP	N1	100	013PS0022N1A
	0.22μm	25mm	PP	N1	100	025PS0022N1A
	0.45μm	13mm	PP	N1	100	013PS0045N1A
	0.45μm	25mm	PP	N1	100	025PS0045N1A

Product selection

Chemical compatibility of membranes and housings

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE	PVDF	RC
Acetic Acid, 5%	R	LR	R	R		R	R	R	R	R	R	R	R
Acetic Acid, Glacial	R	NR	NR			R	LR	R	R	R	R	R	NR
Acetone	R	NR	NR	NR	R	R	R	R	R	NR	R	NR	R
Acetonitrile	R	NR	NR			R	R	R	R	NR	R	R	R
Ammonia, 6N	NR		NR	NR	LR	LR	R	R	R	R	R	LR	LR
Amyl Acetate	LR	NR	NR	R	R	R	R	R	R	LR	R	LR	R
Amyl Alcohol	R	R	R			R	R	R	R	NR	R	R	R
Benzene*	R	R	R	LR	R	R	LR	LR	LR	R	R	R	R
Benzy Alcohol*	R	LR	LR	LR	R	R	LR	R	R	NR	R	R	R
Boric Acid	R	R	R	R	R	R	LR	R	R		R	R	R
Butyl Alcohol	R	R	R	R	R	R	R	R	R	R	R	R	R
Butyl Chloride*						R	NR	NR	NR		R	R	
Carbon Tetrachloride*	R	NR	R	LR	R	R	LR	LR	LR	NR	R	R	R
Chloroform*	R	NR	R	NR	R	R	NR	LR	LR	NR	R	R	R
Chlorobenzene*	R		R	NR		R	NR	LR		NR	R	R	R
Citric Acid						R	LR	R		R	R	R	R
Cresol		NR	R			R	NR	R	R	NR	R	NR	R
Cyclohexanone	R	NR	NR			R	NR	R	R	NR	R	R	R
Cyclohexane	R	R	R	R	R	R	R	R	R	R	R	R	R
Diethyl Acetamide		NR	NR			R	R	R	R		R	NR	R
Dimethyl Formamide	LR	NR	NR			R	R	R	R	NR	R	NR	LR
Dioxane	R	NR	NR	NR	R	R	R	R	R	LR	R	LR	R
DMSO	LR	NR	NR	NR	R	R	R	R	R	NR	R	LR	LR
Ethanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Ethers	R	LR	LR	R	R	R	R	R	R	R	R	LR	R
Ethyl Acetate	R	NR	NR	LR	R	R	R	R	R	NR	R	LR	R
Ethylene Glycol	R	R	LR	R	R	R	R	R	R	R	R	R	R
Formaldehyde	LR	LR	R	R	R	R	R	R	R	R	R	R	R
Freon TF	R	R	R	R	R	R	R	R	R	R	R	R	
Formic Acid		LR	LR			R	NR	R	R	R	R	R	LR
Hexane	R	R	R	R	R	R	R	R	R	R	R	R	R
Hydrochloric Acid, Conc	NR	NR	NR	R	NR	R	NR	LR	LR	R	R	R	NR
Hydrofluoric Acid		NR	NR			NR	NR	LR	LR		R	R	NR
Isobutyl Alcohol	R	R	LR	R	R	R	R	R	R		R	R	R
Isopropyl Alcohol	R	R	LR			R	R	R	R		R	R	R
Methanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Methyl Ethyl Ketone	R	LR	NR	LR	R	R	R	R	R	NR	R	NR	R
Methylene Chloride*	R	NR	LR			R	NR	LR	LR	NR	R	R	R
Nitric Acid, Conc		NR	NR	R	NR	R	NR	NR	NR	NR	R	R	NR
Nitric Acid, 6N		LR	LR			R	NR	LR	LR	LR	R	R	LR
Nitrobenzene*	LR	NR	NR	NR	R	R	LR	R	R	NR	R	R	R
Pentane	R	R	R	R	R	R	R	R	LR	R	R	R	R
Perchloro Ethylene	R	R	R			R	R	R	LR	NR	R	R	R
Phenol 0.5%	LR	LR	R			R	R	R	R	NR	R	R	R
Pyridine	R	NR	NR	NR	R	R	LR	R	R	NR	R	R	R
Sodium Hydroxide 6N	NR	NR	NR	NR	NR	NR	LR	R	R	R	R	R	NR
Sulfuric Acid, Conc	NR	NR	NR	NR	NR	R	NR	NR	R	NR	R	R	NR
Tetrahydrofuran	R	NR	NR			R	R	LR	LR	NR	R	R	R

Chemical compatibility of membranes and housings

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE	PVDF	RC
Toluene*	R	LR	R	LR	R	R	LR	LR	LR	NR	R	R	R
Trichloroethane*	R	NR	LR	NR	R	R	LR	R	R	NR	R	R	R
Trichloroethylene*	R		R			R	NR	R	R	NR	R	R	R
Water	R	R	R	R	R	R	R	R	R	R	R	R	R
Xylene*	R	R	R			R	LR	LR	LR	LR	R	R	R

R = Resistant; LR = Limited Resistance; NR = Not Recommended; * = Short Term Resistance of Housing
The above data is to be used as a guide only. Testing prior to application is recommended.

Material abbreviations:

ANP – Anopore
CA – Cellulose Acetate
CN – Cellulose Nitrate
DpPP – Polypropylene Depth Filter

GMF – Glass Microfiber
NYL – Nylon
PC – Polycarbonate
PE – Polyester
PES – Polyethersulfone

PP – Polypropylene
PTFE – Polytetrafluoroethylene
PVDF – Polyvinylidene Difluoride
RC – Regenerated Cellulose



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