Wet Chemistry: Syringe Filters

The unique design of our CLARITY™ High Performance 25mm Syringe Filters improves flow rate.

Our unique syringe filter design increases the effective filtration area by 31% over the leading brands of 25mm syringe filters. Greater filtration area allows more sample to pass through the filter resulting in better flow rate and less flow decay from particulate loading.

All Environmental Express syringe filters are housed in inert polypropylene and are ultrasonically welded for a positive, particle-free seal. Polypropylene housings are naturally low in extractables and have higher resistance to chemical degradation than acrylic housings. Housings have standard, slip luer fittings on the exit port and full-thread luer-lock fittings on the entry port. Syringe filters come in several membrane types. Different filter porosities are also available. Visit our website for a complete list.

25mm Syringe Filters w/out Prefilter, Packs of 200

Filter Membrane	*Porosity*	*Size*	*Catalog #*
Nylon	0.2µm	25 mm.	SF020N
Polyethersulfone (PES)	0.2µm	25 mm.	SF020E
Polyvinyldifluoride (PVDF)	0.2µm	25 mm.	SF020V
PTFE	0.2µm	25 mm.	SF020T
Cellulose Acetate	0.45µm	25 mm.	SF045CA
Nylon	0.45µm	25 mm.	SF045N
Polyethersulfone (PES)	0.45µm	25 mm.	SF045E
Polyvinyldifluoride (PVDF)	0.45µm	25 mm.	SF045V
PTFE	0.45µm	25 mm.	SF045T
Expanded PTFE, Ultra Clean for Metals	2.0µm	25 mm.	SF200T
Glass Fiber Filter	1.2µm	25 mm.	SF012G
Glass Fiber Filter	1.5µm	25 mm.	SF015G
Glass Fiber, Acid Washed, TCLP Grade	0.7µm	25 mm.	SF1070G

25mm Syringe Filters are also available with Prefilters.

Binderless glass prefilters greatly increase the capacity of syringe filters and decrease backpressure during filtration.

25mm Syringe Filters with Prefilter, Packs of 200

Filter Membrane	*Porosity*	*Size*	*Catalog #*
Nylon, Prefilter	0.2µm	25 mm.	SF120N
Polyethersulfone (PES), Prefilter	0.2µm	25 mm.	SF120E
Polyvinyldifluoride (PVDF), Prefilter	0.2µm	25 mm.	SF120V
PTFE, Prefilter	0.2µm	25 mm.	SF120T
Cellulose Acetate, Prefilter	0.45µm	25 mm.	SF145CA
Nylon, Prefilter	0.45µm	25 mm.	SF145N
Polyethersulfone (PES), Prefilter	0.45µm	25 mm.	SF145E

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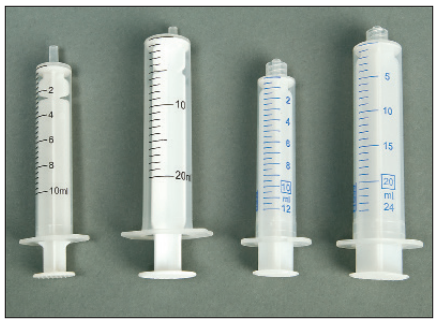
25mm Syringe Filters with Prefilter. continued

Polyvinyldifluoride (PVDF), Prefilter	0.45µm	25 mm.	SF145V
PTFE, Prefilter	0.45µm	25 mm.	SF145T
Polyethersulfone with Teflon Prefilter	0.45µm	25 mm.	SF245E

13mm Syringe Filters, Packs of 100

Filter Membrane	Porosity	Size	Catalog #
Nylon	0.22µm	13 mm.	SF122N
PTFE	0.2µm	13 mm.	SF122T
Nylon	0.45µm	13 mm.	SF1345N

Disposable 10mL and 20mL Syringes are compatible with 25mm, 50mm or 13mm syringe filters.



Economical disposable syringes in 10mL or 20mL are made from inert polypropylene. They contain no rubber plungers to degrade or contaminate your sample. Syringes are assembled and feature printed graduations. Slip luer or luer lock styles are available.

Description	*Catalog #*
10mL Disposable Slip Luer Syringe	S0010
20mL Disposable Slip Luer Syringe	S0020
10mL Disposable Luer Lock Syringe	S0010LL
20mL Disposable Luer Lock Syringe	S0020LL

Filter Membrane Selection Guide

Membrane Type *Membrane Characteristics* *Applications*		*Flow Rate*	*Hydrophobic*	*Hydrophilic*	*Acid Resistant*	*Base Resistant*	*Solvent Resistant*
Membrane Type:	Cellulose Acetate						
Characteristics:	Low protein binding, ideal for aqueous-based samples High protein recovery from filtrate.						
Applications:	Tissue culture media filtration, general water filtration.	***	—	****	—	*	**
Membrane Type:	Glass Fiber						
Characteristics:	Larger pore size. Able to remove large particles without clogging.						
Applications:	General laboratory filtration. Ideal for solids testing.	****	—	****	***	*	****
Membrane Type:	Nylon						
Characteristics:	Hydrophilic membrane and low in extractables. Broad compatibility with aqueous samples. Not highly compatible with acids and bases.						
Applications:	General laboratory filtration. Ideal for HPLC applications	**	—	****	—	***	***
Membrane Type:	Polyethersulfone (PES)						
Characteristics:	High flow rate compatible with high temperature liquids. Low in inorganic ions.						
Applications:	Ideal for Ion Chromatography Analysis****	****	—	****	**	***	*
Membrane Type:	PVDF						
Characteristics:	Hydrophilic and has good resistance to solvents.						
Applications:	General laboratory filtration. Ideal for high protein recovery.	***	*	***	****	****	***
Membrane Type:	PTFE						
Characteristics:	Hydrophobic and resistant to most solvents, acids and bases. Must be pre-wet with alcohol prior to filtering aqueous solutions.						
Applications:	General laboratory filtration. Ideal for high protein recovery.	**	****	—	****	****	****

***** Each membrane is rated on a scale of 1-4 for fitness for specific properties with 4 being the most effective, 1 being the least and — means not applicable.*

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