

Syringe Filters

- Clarifying samples
- Protecting injection valve components
- Protecting columns
- Color coded for easy identification
- Luer tip
- Cost effective

Filter types: Nylon, PTFE, PES, MCE, PVDF

Porosities size: 0.22µm and 0.45µm

Diameters: 4mm, 13mm, 25mm, 30mm

Effective Filtration Area: 0.1cm² for the 4mm syringe filters

0.65cm² for the 13mm syringe filters

3.9cm² for the 25mm syringe filters

4.5cm² for the 30mm syringe filters

Retention volume: Less than 8µl for the 4mm syringe filters

Less than 30µl for the 13mm syringe filters

Less than 120µl for the 25mm syringe filters

Less than 140µl for the 30mm syringe filters



Packing size: 100/pk

Nylon Syringe Filters

- Hydrophilic surface, good solvent resistance and medium protein binding
- Filtration of all aqueous samples and most of organic solvents
- Mechanical stability is very strong
- Excellent chemical compatibility with esters, bases, phenol and alcohols
- Autoclave: sterilized by dry heat at 121°C for 15 minutes
- Color code: 0.22µm – Yellow; 0.45µm – Pink

Size	Pore Size	Part No.
4mm	0.22µm	NLF04-2201
	0.45µm	NLF04-4501
13mm	0.22µm	NLF13-2201
	0.45µm	NLF13-4501
25mm	0.22µm	NLF25-2201
	0.45µm	NLF25-4501
30mm	0.22µm	NLF30-2201
	0.45µm	NLF30-4501

PTFE Syringe Filters

Hydrophobic membrane

- Highest solvent resistance, and high protein binding
- Filtration of non-aqueous or solvent based samples
- Prewetting with methanol or ethanol prior to aqueous samples filtration
- Very broad chemical and thermal compatibility
- It is recommended for strong acids and bases
- Good for filtering and degassing chromatography
- Color code: 0.22µm – Purple; 0.45µm – Orange

Packing size: 100/pk

Size	Pore Size	Part No.
4mm	0.22µm	PTF04-2201
	0.45µm	PTF04-4501
13mm	0.22µm	PTF13-2201
	0.45µm	PTF13-4501
25mm	0.22µm	PTF25-2201
	0.45µm	PTF25-4501
30mm	0.22µm	PTF30-2201
	0.45µm	PTF30-4501

Packing size: 100/pk

PVDF Syringe Filters

Hydrophilic membrane

- It has a broad chemical compatibility and is low UV absorbing extractable
- It is highly resistant to most solvents and low protein binding.
- General filtration of biological samples
- Filtration of all aqueous and most solvent based samples
- Aseptic filtration for protein, tissue culture medium, antibiotic and ethanol
- Autoclave: sterilized by dry heat at 121°C for 15 minutes
- Color code: 0.22µm – Brown; 0.45µm – Red

Size	Pore Size	Part No.
4mm	0.22µm	PVF04-2201
	0.45µm	PVF04-4501
13mm	0.22µm	PVF13-2201
	0.45µm	PVF13-4501
25mm	0.22µm	PVF25-2201
	0.45µm	PVF25-4501
30mm	0.22µm	PVF30-2201
	0.45µm	PVF45-2201



PES Syringe Filters

Packing size: 100/pk

- Natural hydrophilic, low protein binding
- Ideal for aqueous based samples
- Fast flow rate and high throughput
- General filtration of biological samples
- Autoclave: sterilized by dry heat at 121°C for 15 minutes
- Color code: 0.22µm – white; 0.45µm – Azury

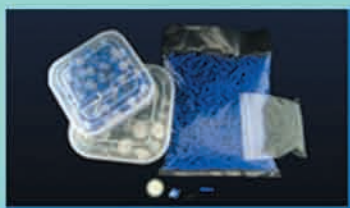
Size	Pore Size	Part No.
4mm	0.22µm	PEF04-2201
	0.45µm	PEF04-4501
13mm	0.22µm	PEF13-2201
	0.45µm	PEF13-4501
25mm	0.22µm	PEF25-2201
	0.45µm	PEF25-4501
30mm	0.22µm	PEF30-2201
	0.45µm	PEF30-4501

MCE Syringe Filters

Packing size: 100/pk

- Better hydrophilicity, very low protein binding
- Great water flux and better cutoff effect
- Ideal for aqueous based samples, tissue culture and sensitive biological samples
- Has a lower chemical resistance
- Autoclave: sterilized by dry heat at 121°C for 15 minutes
- Color code: 0.22µm – Green; 0.45µm – Blue

Size	Pore Size	Part No.
4mm	0.22µm	MCF04-2201
	0.45µm	MCF04-4501
13mm	0.22µm	MCF13-2201
	0.45µm	MCF13-4501
25mm	0.22µm	MCF25-2201
	0.45µm	MCF25-4501
30mm	0.22µm	MCF30-2201
	0.45µm	MCF30-4501



Membrane Filters

MCE Membrane, Nylon Membrane, PTFE Membrane, PVDF Membrane, PES Membrane

Nylon Membrane Filters

Product Description

Nylon membrane filter is a supported, naturally hydrophilic membrane. Nylon membrane filters are flexible, durable and tear resistant, and can be autoclaved at 121°C.

Application

- ◆ High strength and heat resistance
- ◆ Use for HPLC sample preparation, to sterilize biological solutions or buffers, or vacuum degassing
- ◆ Compatible with many aqueous, alcohols solvents, bases, most HPLC solvents, aromatic hydrocarbons and THF.
- ◆ Don't use with acids, aggressive halogenated hydrocarbons, protein samples

Packing size: 100/pk

Size	Pore Size	Part No.
13mm	0.22µm	NLM13-2201
	0.45µm	NLM13-4501
25mm	0.22µm	NLM25-2201
	0.45µm	NLM25-4501
47mm	0.22µm	NLM47-2201
	0.45µm	NLM47-4501

PTFE Membrane Filters

Product Description

Polytetrafluoroethylene (PTFE) membrane discs are used for a variety of filtration applications, including biochemistry, microelectronic, lab material and etc. It can effectively filtrate microorganism and other particulates. PTFE also has high temperature resistance and wide chemical compatibility.

Application

Hydrophobic PTFE Membrane Filters

- ◆ Highly porous membrane filters
- ◆ Use to sterilize gasses, vent gas from aqueous solutions, or sterilize or clarify aggressive chemicals
- ◆ Insert to most aggressive solvents, strong acids, alcohols, bases, aromatics
- ◆ Don't use with aqueous samples without prewetting (causes high backpressure)

Packing size: 100/pk

Size	Pore Size	Part No.
13mm	0.22µm	PTM13-2201
	0.45µm	PTM13-4501
25mm	0.22µm	PTM25-2201
	0.45µm	PTM25-4501
47mm	0.22µm	PTM47-2201
	0.45µm	PTM47-4501

PVDF Membrane Filters

Product Description

PVDF (polyvinylidene difluoride) is conventional, hydrophobic and microporous membrane. It has a low critical surface energy and will not be wet with aqueous fluids. It has a broad chemical compatibility and is low UV absorbing extractable. It can ensure wet air and other gas pass through smoothly, even when the differential pressure is very low.

Application

- ◆ High temperature capabilities, excellent ageing resistance and High purity fluid transportation
- ◆ Easy processing by extrusion, injection, compression, blow molding, solution process
- ◆ Use with alcohols, weak acids, proteins, peptides and other bimolecular
- ◆ Don't use with some strong acids, bases, esters, ethers or ketoses

Packing size: 100/pk

Size	Pore Size	Part No.
13mm	0.22µm	PVM13-2201
	0.45µm	PVM13-4501
25mm	0.22µm	PVM25-2201
	0.45µm	PVM25-4501
47mm	0.22µm	PVM47-2201
	0.45µm	PVM47-4501

■ PES Membrane Filters

Product Description

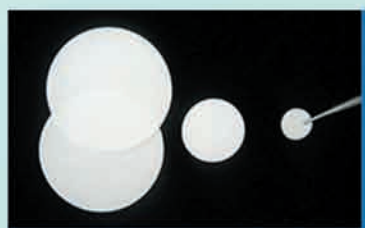
PES (Polyethersulfone) membrane is hydrophilic and constructed from polyethersulfone polymer membrane. It has a good flowrate characteristics and its low protein and drug binding characteristics make it ideally suited for use in life science applications.

Application

- ◆ Liquid of high temperature filtration
- ◆ Use with aqueous samples, proteins, acids, alcohols, aliphatic hydrocarbon
- ◆ Don't use with concentrated sulphuric acid, concentrated nitric acid, strong polar solvents

Packing size: 100/pk

Size	Pore Size	Part No.
13mm	0.22µm	PEM13-2201
	0.45µm	PEM13-4501
25mm	0.22µm	PEM25-2201
	0.45µm	PEM25-4501
47mm	0.22µm	PEM47-2201
	0.45µm	PEM47-4501



■ MCE Membrane Filters

Product Description

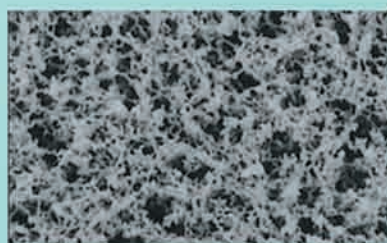
Mixed cellulose ester (MCE) membrane filters are composed of cellulose acetate and cellulose nitrate. It's one of the most widely used membranes in analytical and research applications because of its biological inertness.

Application

- ◆ High porosity for increased flow rates without compromising filter integrity.
- ◆ High protein binding can be blocked by pretreatment or utilized in applications.
- ◆ Use for many standard laboratory applications, including, contamination analysis.
- ◆ Use with aqueous samples. Don't use with organic solvents

Packing size: 100/pk

Size	Pore Size	Part No.
13mm	0.22µm	MCM13-2201
	0.45µm	MCM13-4501
25mm	0.22µm	MCM25-2201
	0.45µm	MCM25-4501
47mm	0.22µm	MCM47-2201
	0.45µm	MCM47-4501



Magnification of MCE Filter