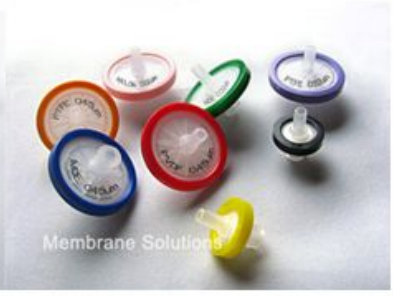
Membrane Solutions

MS® Syringe Filters

MS® syringe filters are simply quality filters, well packaged, and offered at a fair and competitive price. The Classic range is available in all of the major membranes including Nylon, PTFE, PES, MCE and PVDF which are supplied in 13mm, 25mm and 33mm formats in virgin polypropylene housings.

The emphasis is very much on quality. Membrane materials are supplied by the best names in the industry and the ISO9000 certified manufacturing is carried out to the highest standards, in certified clean room conditions, using the latest manufacturing technology to ensure a high quality, consistent product.

All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure. Designed with a Female Luer-Lok inlet and Male Luer slip outlets. Some Filters are individually wrapped sterile, certified RNase-free, DNase- free, Non-pyrogenic, and DNA –free.



Colour Coded:

All Titan2 syringe filters are colour coded, providing **easy identification of the membrane type and porosity**.

Click on any of the filters below to view the range we stock with that membrane:

White -- PES
0.22µm, 0.45µm
13mm, 25mm, 33mm

Green -- MCE
0.22µm, 0.45µm
13mm, 25mm, 33mm

Blue -- MCE
0.22µm, 0.45µm
13mm, 25mm, 33mm

Purple -- PTFE
0.22µm, 0.45µm
13mm, 25mm, 33mm

Orange -- PTFE
0.22µm, 0.45µm
13mm, 25mm, 33mm

Yellow -- Nylon
0.22µm, 0.45µm
13mm, 25mm, 33mm

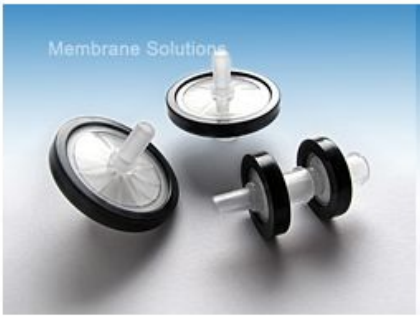
Pink -- Nylon
0.22µm, 0.45µm
13mm, 25mm, 33mm

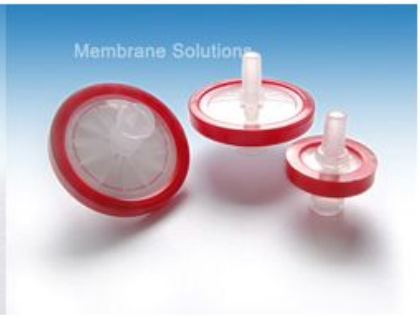
Black -- PVDF
0.22µm, 0.45µm
13mm, 25mm, 33mm

Red -- PVDF
0.22µm, 0.45µm
13mm, 25mm, 33mm

Membrane Solutions

MS® PVDF Syringe Filter





Product Description:

MS® Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs. PVDF (Polyvinylidene fluoride) – extremely low protein-binding; for filtration of non-aggressive aqueous and mild organic solutions, or were maximizing protein recovery is important.

Features and Benefits:

- Good heat—endurance and chemical stability, strong hydrophobility
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes(0.22μm and 0.45μm)
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, DNase- free,
- Non-pyrogenic, and DNA –free.

Technical Specification:

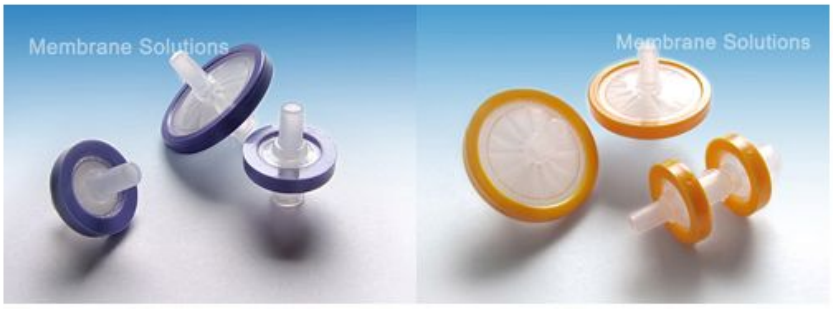
- Gas filtration
- Vapor filtration
- High-temperature filtration
- Food industry
- Medicine filtration

Technical Specification:

Parameters	13mm		25mm		33mm	
Membrane material	PVDF		PVDF		PVDF	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm^2)	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	100°C		100°C		100°C	
Maximum Operating Pressure (psi)	50		95		110	
Applicable pH value	1-14		1-14		1-14	

Membrane Solutions

MS® PTFE Syringe Filter



Product Description:

MS® Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs.

Features and Benefits:

- Broad chemical compatibility
- Strong chemical stability and inertia
- Strong hydrophobicity
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes(0.22μm and 0.45μm) and four different membrane types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, Dnase-free,
- Non-pyrogenic, and DNA –free.

Application:

- Organic solvent with strong chemical causticity filtration
- strong acid solvent filtration
- Alkali solvent filtration

Technical Specification:

Parameters	13mm		25mm		33mm	
Membrane material	PTFE		PTFE		PTFE	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm^2)	0.65		3.90		4.60	
Pore Size (μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	130°C		130°C		130°C	
Maximum Operating Pressure (psi)	130		130		130	
Applicable pH value	1-14		1-14		1-14	

Membrane Solutions

MS® MCE Syringe Filter

Product Description:

MS® Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs. MCE (Mixed Cellulose Ester)-filtration of aqueous solutions; effectively binds trace proteins.

Features and Benefits:

- Uniform aperture
- Thin texture
- High filtration speed
- No medium dropping
- Little resistance
- Little absorption
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified Rnase-free, Dnase- free,
- Non-pyrogenic, and DNA –free.

Application:

- Gas particulate and bacteria filtration and then inspect them
- Oil particulate and bacteria filtration and then inspect them
- Alcohol particulate and bacteria filtration and then inspect them
- Other solvent particulate and bacteria filtration and then inspect them

Technical Specification:

Parameters	13mm		25mm		33mm	
Membrane material	MCE		MCE		MCE	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm²)	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	110°C		110°C		110°C	
Maximum Operating Pressure (psi)	120		120		120	
Applicable pH value	4-8		4-8		4-8	

Membrane Solutions

MS® Nylon Syringe Filter

Product Description:

MS® Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs. Nylon-providing a board range of chemical compatibility for the filtration of either aqueous or organic solvents; hydrophobic; can be used in a board pH range.

Features and Benefits:

- Hydrophilic property
- No need to moist beforehand
- Uniform aperture
- Strong tenacity and adsorbability
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types.
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- Some Filters are individually wrapped sterile, certified RNase-free, Dnase- free,
- Non-pyrogenic, and DNA –free.

Application:

- Electric semiconductor industrial water filtration
- Chemicals filtration
- Beverage filtration

Technical Specification:

Parameters	13mm	25mm	33mm
Membrane material	Nylon	Nylon	Nylon
Housing material	PP	PP	PP
Filter diameter (mm)	13mm	25mm	33mm
Filtration area (cm²)	0.65	3.90	4.60
Pore Size(μm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (μl)	<10	<30	<55
Sample volume (ml)	<12	<100	<140
Maximum Operating Temperature	100°C	100°C	100°C
Maximum Operating Pressure (psi)	75	95	110
Applicable pH value	3-12	3-12	3-12

Membrane Solutions

MS® PES Syringe Filter

Product Description:

MS® Syringe filters are purpose-built with features designed to bring the highest levels of performance and purity to your research. We incorporate a variety of membranes to offer separation and purification solutions for the majority of your laboratory needs. PES(Polyethersulfone) – low affinity for proteins and extractable with substantially faster flow rates than PVDF; suitable for pre-filtration and filtration of buffers and culture media.

Features and Benefits:

- High filtration speed
- Low exeractables
- Lowest protein binding
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample types. They are available in two pore sizes(0.22µm and 0.45µm)
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- some Filters are individually wrapped sterile, certified RNase-free, DNase- free,
- Non-pyrogenic, and DNA –free.

Application:

- Sterile filtering protein solution
- Tissue culture media filtration
- Tissue culture additive filtration

Technical Specification:

Parameters	13mm	25mm	33mm
Membrane material	PES	PES	PES
Housing material	PP	PP	PP
Filter diameter (mm)	13mm	25mm	33mm
Filtration area (cm²)	0.65	3.90	4.60
Pore Size(µm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (µl)	<10	<30	<55
Sample volume (ml)	<12	<100	<140
Maximum Operating Temperature	90°C	90°C	90°C
Maximum Operating Pressure (psi)	50	95	120
Applicable pH value	1-14	1-14	1-14