

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 to 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:

MS® 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:

New Range 2010 plus
some stock in Melbourne
re Availability . . . Enquire !

others . . . normally imported in 100-pk
- Supplied NOT necessarily color-coded

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

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

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

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

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

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

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

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

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

Typical SYRINGE FILTERS in Stock Melbourne . . . Enquire

Cat No	Description	100pk	AUD	Ex-GST Unit Cost
SFNY013045N	Nonsterile Nylon Syringe Filters 0.45(µm) 13(mm)		76.60	
SFNY030045N	MS Syringe Filter Nylon 30mm Diameter 0.45µm		133.00	
SFPES013045N	Nonsterile PES Syringe Filters 0.45(µm) 13(mm)		66.51	
SFPES025045N	Nonsterile PES Syringe Filters 0.45(µm) 25(mm)		95.57	
SFPVDF013045N	Nonsterile PVDF Syringe Filters 0.45(µm) 13(mm)		66.51	
SFPVDF013022S	Sterile PVDF Syringe Filters 0.22(µm) 13(mm)		113.26	
SFPVDF025022S	Sterile PVDF Syringe Filters 0.22(µm) 25(mm)		124.02	
SFPVDF025045N	Nonsterile PVDF Syringe Filters 0.45(µm) 25(mm)		95.57	
SFPVDF025045S	Sterile PVDF Syringe Filters 0.45(µm) 25(mm)		133.23	
SFPVDF025045SG	Sterile PVDF Syringe Filters, 0.45µm 25mm GF prefilter		128.71	
SFPVDF025045SM	Sterile G-MP Multi Layer PVDF Syringe Filters 25mm 0.45µm 1-7/1/0.45µm		155.10	
SFPTFE013045NB	Nonsterile PTFE Syringe Filters 0.45(µm) 13(mm)		66.51	
SFPTFE025045N	Nonsterile PTFE Syringe Filters 0.45(µm) 25(mm)		95.57	
SFPP013045N	Nonsterile PP Syringe Filters 0.45(µm) 13(mm)		53.23	
SFPP025045N	Nonsterile PP Syringe Filters 0.45(µm) 25(mm)		76.45	



Introduction:

MS[®] Nylon syringe filters offer universal application for analytical procedures. Hydrophilic Nylon is ideal for aqueous (non-acidic) or organic sample prep and HPLC, GC or dissolution sample analysis. With its excellent flow characteristics, very low extractable levels and mechanical stability, Nylon offers the best combination of physical parameters to meet the most stringent analytical needs. The naturally hydrophilic, high protein binding and high dirt loading capacity of Nylon are natural advantages.

Technical Parameter:

Membrane Solutions offer Customized Pore Sizes: **0.1µm, 0.80µm, 1.0µm, 3.0µm, 5.0µm.**

Parameters	13mm		25mm		33mm	
Membrane material/Housing Material	Nylon/PP		Nylon/PP		Nylon/PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm ²)	0.65		3.90		4.60	
Normal 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	

Order Information:

MS Items	Products Name/Size	Quantity/pk	
Nylon Syringe Filter, 13mm, Non-sterile			
SFNY013010N	Nonsterile Nylon Syring Filters, 0.10(µm), 13(mm)	500	
SFNY013022N	Nonsterile Nylon Syring Filters, 0.22(µm), 13(mm)	500	
SFNY013045N	Nonsterile Nylon Syring Filters, 0.45(µm), 13(mm)	500	Stock Melb in 100-pks
SFNY013080N	Nonsterile Nylon Syring Filters, 0.80(µm), 13(mm)	500	Stock Melb in 100-pks
SFNY013100N	Nonsterile Nylon Syring Filters, 1.00(µm), 13(mm)	500	
SFNY013300N	Nonsterile Nylon Syring Filters, 3.00(µm), 13(mm)	500	
SFNY013500N	Nonsterile Nylon Syring Filters, 5.00(µm), 13(mm)	500	
Nylon Syringe Filter, 25mm, Non-sterile			
SFNY025010N	Nonsterile Nylon Syring Filters, 0.10(µm), 25(mm)	200	
SFNY025022N	Nonsterile Nylon Syring Filters, 0.22(µm), 25(mm)	200	Stock Melb in 100-pks
SFNY025045N	Nonsterile Nylon Syring Filters, 0.45(µm), 25(mm)	200	Stock Melb in 100-pks

SFNY025080N	Nonsterile Nylon Syringe Filters, 0.80(µm), 25(mm)	200	
SFNY025100N	Nonsterile Nylon Syringe Filters, 1.00(µm), 25(mm)	200	
SFNY025300N	Nonsterile Nylon Syringe Filters, 3.00(µm), 25(mm)	200	
SFNY025500N	Nonsterile Nylon Syringe Filters, 5.00(µm), 25(mm)	200	
Nylon Syringe Filter, 33mm, Non-sterile			
SFNY033022N	Nonsterile Nylon Syringe Filters, 0.22(µm), 33(mm)	200	
SFNY033045N	Nonsterile Nylon Syringe Filters, 0.45(µm), 33(mm)	200	Stock Melb in 100-pks
Nylon Syringe Filter, 13mm, Sterile			
SFNY013010S	Sterile Nylon Syringe Filters, 0.10(µm), 13(mm)	200	
SFNY013022S	Sterile Nylon Syringe Filters, 0.22(µm), 13(mm)	200	Stock Melb in 100-pks
SFNY013045S	Sterile Nylon Syringe Filters, 0.45(µm), 13(mm)	200	Stock Melb in 100-pks
SFNY013080S	Sterile Nylon Syringe Filters, 0.80(µm), 13(mm)	200	
SFNY013100S	Sterile Nylon Syringe Filters, 1.00(µm), 13(mm)	200	
SFNY013300S	Sterile Nylon Syringe Filters, 3.00(µm), 13(mm)	200	
SFNY013500S	Sterile Nylon Syringe Filters, 5.00(µm), 13(mm)	200	
Nylon Syringe Filter, 25mm, Sterile			
SFNY025010S	Sterile Nylon Syringe Filters, 0.10(µm), 25(mm)	200	
SFNY025022S	Sterile Nylon Syringe Filters, 0.22(µm), 25(mm)	200	Stock Melb in 100-pks
SFNY025045S	Sterile Nylon Syringe Filters, 0.45(µm), 25(mm)	200	Stock Melb in 100-pks
SFNY025080S	Sterile Nylon Syringe Filters, 0.80(µm), 25(mm)	200	
SFNY025100S	Sterile Nylon Syringe Filters, 1.00(µm), 25(mm)	200	
SFNY025300S	Sterile Nylon Syringe Filters, 3.00(µm), 25(mm)	200	
SFNY025500S	Sterile Nylon Syringe Filters, 5.00(µm), 25(mm)	200	
Nylon Syringe Filter, 33mm, Sterile			
SFNY033122S	Sterile Nylon Syringe Filters, 0.22(µm), 33(mm)	200	
SFNY033145S	Sterile Nylon Syringe Filters, 0.45(µm), 33(mm)	200	
Nylon Syringe Filter, 13mm, with PP Prefilter, Non-sterile			
SFNY013022NP	Nonsterile Nylon Syringe Filters, 0.22(µm), 13(mm), PP prefilter	100	
SFNY013045NP	Nonsterile Nylon Syringe Filters, 0.45(µm), 13(mm), PP prefilter	100	
Nylon Syringe Filter, 13mm, with PP Prefilter, Sterile			
SFNY013122SP	Sterile Nylon Syringe Filters, 0.22(µm), 13(mm), PP prefilter	100	
SFNY013145SP	Sterile Nylon Syringe Filters, 0.45(µm), 13(mm), PP prefilter	100	
Nylon Syringe Filter, 25mm, with PP Prefilter, Non-sterile			
SFNY025022NP	Nonsterile Nylon Syringe Filters, 0.22(µm), 25(mm), PP prefilter	100	
SFNY025045NP	Nonsterile Nylon Syringe Filters, 0.45(µm), 25(mm), PP prefilter	100	
Nylon Syringe Filter, 25mm, with PP Prefilter, Sterile			
SFNY025122SP	Sterile Nylon Syringe Filters, 0.22(µm), 25(mm), PP prefilter	100	
SFNY025145SP	Sterile Nylon Syringe Filters, 0.45(µm), 25(mm), PP prefilter	100	
Nylon Syringe Filter, 13mm, with Glass Fiber Prefilter, Non-sterile			
SFNY013022NG	Nonsterile Nylon Syringe Filters, 0.22(µm), 13(mm), GF prefilter	100	
SFNY013045NG	Nonsterile Nylon Syringe Filters, 0.45(µm), 13(mm), GF prefilter	100	
Nylon Syringe Filter, 13mm, with Glass Fiber Prefilter, Sterile			
SFNY013122SG	Sterile Nylon Syringe Filters, 0.22(µm), 13(mm), GF prefilter	100	
SFNY013145SG	Sterile Nylon Syringe Filters, 0.45(µm), 13(mm), GF prefilter	100	
Nylon Syringe Filter, 25mm, with Glass Fiber Prefilter, Non-sterile			
SFNY025022NG	Nonsterile Nylon Syringe Filters, 0.22(µm), 25(mm), GF prefilter	100	
SFNY025045NG	Nonsterile Nylon Syringe Filters, 0.45(µm), 25(mm), GF prefilter	100	
Nylon Syringe Filter, 25mm, with Glass Fiber Prefilter, Sterile			
SFNY025122SG	Sterile Nylon Syringe Filters, 0.22(µm), 25(mm), GF prefilter	100	
SFNY025145SG	Sterile Nylon Syringe Filters, 0.45(µm), 25(mm), GF prefilter	100	

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 tested for filter efficacy and housing integrity. The housing is pressure tested for use with up to 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	

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
- 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 to 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.
- Low exeractables

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 (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	90°C		90°C		90°C	
Maximum Operating Pressure (psi)	50		95		120	
Applicable pH value	1-14		1-14		1-14	

MS® SteriBio Syringe Filters

----- Ideal for Proteinaceous Samples and Tissue Culture Work



MS® SteriBio syringe filters are available with Polyethersulphone (PES) and Cellulose Acetate (CA) membranes. Each filter is individually packed and sterilized by Gama Radiation. Every box is printed with a Batch Number and Expiry Date for quick and easy QC tracking.

SteriBio Cellulose Acetate and PES syringe filters have particularly low adsorption which ensures minimal loss of proteins and preservatives.

Membrane Solutions offer Syringes(sterile) which are suitable for sterilization filtration together with MS® SteriBio syringe filters.



- All the Syringes are sterilized by Ethylene Oxide,
- Individually packaged.
- No-toxic
- Pyrogen free

MS® SteriBio Syringe Filters

Introduction:

<p>CA (Cellulose Acetate) combine high flow rates and thermal stability with very low absorption characteristics. Especially 0.22um pore size CA Sterile Syringe Filter excellently suited for sterilization aqueous solutions, buffers, sera and media. Low protein binding to minimize sample loss</p>	<p>PES (polyethersulphone)resistant to a wide range of solvents and offers low binding to proteins and nucleic acid. PES is also recommended for ion chromatography. Hydrophilic, low protein binding, low extractables with high throughput (flow) make this unit useful for aqueous, biological or protein based filtration.</p>
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Application:

<p>CA Sterile Syringe Filter:</p> <ul style="list-style-type: none">• Sterilize biological fluids, serum or media additives,• Sample preparations of aqueous solutions,• Sample preparation of protein-based HPLC solutions,• High throughput, low binding filter units for non-sterile aqueous filtrations,• Filtrations of tissue culture media,• High throughput for sterile or non-sterile clarification of even the most viscous proteinaceous Solutions,• Filter probe and hybridization solutions to reduce backgrounds, <p>Note:</p> <ul style="list-style-type: none">• CA Membrane is not compatible with organic solvents.• CA Membrane chemical campatibility range is pH4-8.	<p>PES Sterile Syringe Filter:</p> <ul style="list-style-type: none">• Sterilize biological fluids, serum or tissue culture media additives• Sample preparation of aqueous solutions• High throughput, low binding filter• Units for sterile aqueous filtrations• Filter probe and hybridization solutions to reduce backgrounds• Sample preparation of protein-based HPLC solutions• High throughputs when sterilizing or clarifying even the most viscous proteinaceous solutions,• probe solutions;• protein and enzyme filtrations;• hybridization buffers and other aqueous solutions.
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Technical Parameter:

Parameters	CA (Sterile)			PES (Sterile)		
	13mm	25mm	33mm	13mm	25mm	33mm
Membrane material	CA	CA	CA	PES	PES	PES
Housing material	PP	PES	PP	PP	PES	PP
Filtration area (cm ²)	0.65	3.90	4.60	0.65	3.90	4.60
Pore Size(μm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (μl)	<10	<30	<55	<10	<30	<55
Sample volume (ml)	<12	<100	<140	<12	<100	<140
Maximum Operating Temperature	110°C	110°C	110°C	90°C	90°C	90°C
Maximum Operating Pressure (psi)	50	95	120	50	95	120
Applicable pH value	4-8	4-8	4-8	1-14	1-14	1-14

Order Information:

PES Sterile Syringe Filter, Gama Sterile, Individually Package		
Item NO.	Discription	package
SFPES013022S	Sterile PES Syring Filters, 0.22(μm), 13(mm)	100
SFPES013045S	Sterile PES Syring Filters, 0.45(μm), 13(mm)	100
SFPES025022S	Sterile PES Syring Filters, 0.22(μm), 25(mm)	100
SFPES025045S	Sterile PES Syring Filters, 0.45(μm), 25(mm)	100
SFPES033022S	Sterile PES Syring Filters, 0.22(μm), 33(mm)	100
SFPES033045S	Sterile PES Syring Filters, 0.45(μm), 33(mm)	100

CA Sterile Syringe Filter, Gama Sterile, Individually Package		
Item NO.	Discription	package
SFCA013022S	Sterile CA Syringe Filters, 0.22(μm), 13(mm)	100
SFCA013045S	Sterile CA Syringe Filters, 0.45(μm), 13(mm)	100
SFCA025022S	Sterile CA Syringe Filters, 0.22(μm), 25(mm)	100
SFCA025045S	Sterile CA Syringe Filters, 0.45(μm), 25(mm)	100
SFCA033022S	Sterile CA Syringe Filters, 0.22(μm), 33(mm)	100
SFCA033045S	Sterile CA Syringe Filters, 0.45(μm), 33(mm)	100

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 where maximizing protein recovery is important.

Features and Benefits:

- Good heat—endurance and chemical stability, 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)
- All items are quality tested for filter efficacy and housing integrity. The housing is pressure tested for use with up to 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 (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)	50		95		110	
Applicable pH value	1-14		1-14		1-14	



MS[®] G-MP syringe filter



Introduction

MS[®] G-MP syringe filters are designed specially to filter high particulate solutions. With four layers, the first filter is a composite membrane of 10 μ m glass fiber and 1.0 μ m PP, the second prefilter is 0.7 μ m GF/F membrane media, the last one is filtration media as specified. G-MP special membrane materials can eliminate sample contamination and allow you to filter difficult samples with less hand pressure and fast flow rate. They prevent the build up of back pressure typically caused by the blocking of an unprotected membrane.

Feature

Increased volume throughput:

Volume of sample filtered can be three to seven times greater than conventional filters.

Superior performance:

Four layers of filtration media reduce blockage and the need to replace the filter in mid-operation.

Less hand force required:

The unique pre-filter layer allows high particulate samples to be filtered with less hand force, minimizing operator fatigue.



Application

- Hard-to-filter samples
- Dissolution testing
- Content uniformity
- Environmental samples
- Composite assays
- Food analysis
- Biofuel analysis

Technical Specification

Specification	25mm
Filtration Area	4.6cm ²
Maximum Pressure	75psi(5.2bar)
Materials of construction	Housing: Polypropylene Filtration Media: As specified
Connectors	Inlet: Female Luer Lock (FLL) Outlet: Male Luer (ML)
Flow direction	Flow from inlet to outlet (FLL to ML)

Order Information

25mm Non-sterile

Catalog No.	Membrane	Pore size(μm)	Package(pcs/pk)
SFNY025022NM	Nylon	0.22	100
SFNY025045NM	Nylon	0.45	100
SFPVDF025022NM	PVDF	0.22	100
SFPVDF025045NM	PVDF	0.45	100
SFPTFE025022NM	PTFE	0.22	100
SFPTFE025045NM	PTFE	0.45	100
SFPES025022NM	PES	0.22	100
SFPES025045NM	PES	0.45	100
SFPP025022NM	PP	0.22	100
SFPP025045NM	PP	0.45	100
SFCA025022NM	CA	0.22	100
SFCA025045NM	CA	0.45	100

Note: Sterilization is available.

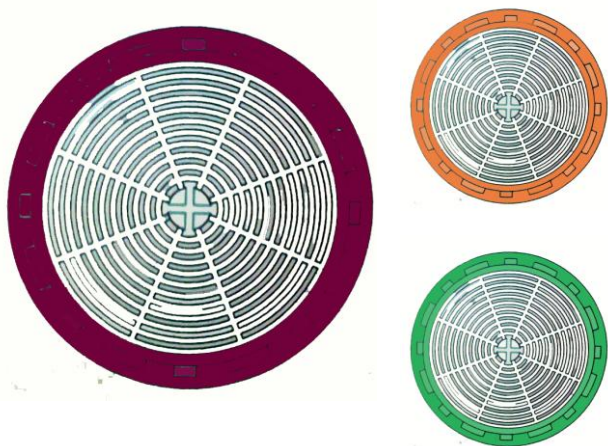
Superpure™ Syringe Filter

5 Improvements, 5 Days Delivery

Same Low Price

New range of HPLC 17mm, 30mm Syringe Filters

Superpure™ 17 mm, 30 mm color-coded syringe filters are designed to speed up and increase sample volume throughput while reducing thumb pressure. All with **HPLC certification**.



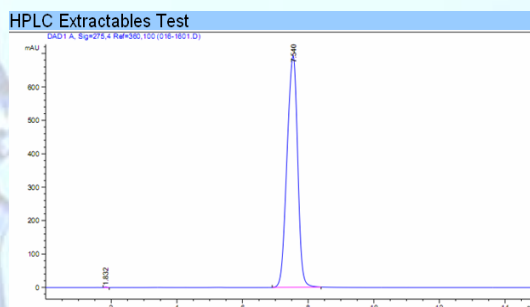
Features and Benifits

- **Color coding:** Easier to tell the filter membrane
- **Larger filtration areas:** (bigger than 33mm) Increased sample throughout
- **Added sample distribution ring:** Improved membrane flows
- **High resolutions print:** Easier to tell the pore size of filter
- **Better membrane media:** Improved membrane flow rates
- **Application Compatibility:** Broad range of filtration media meets diverse application needs
- **Minimum sample hold-up:** Syringe Filters' housings are specifically designed to maximize sample recovery
- **Sterile:** Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

Application

- HPLC sample preparation
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Environmental samples

Validated HPLC Performance



Agilent Technologies 1200, Column: C18 UV = 254 nm Mob.phase:MeOH/H₂O:20:80, Temperature: 25°C, Flow rate:0.8ml/min, sample:2mg/ml Bergenin(in Methanol)

Parameters	17mm	30mm
Housing material	Virgin Medical Polypropylene	
Effective Filtration area (cm ²)	1.65	5.39
Pore Size (µm)	0.22, 0.45.....	
Holdup volume (µl)	<25	<100
Sample volume (ml)	<20	<200
Inlet connection	Female luer lock	
Outlet connection	Male luer slip	
Maximum Operating Temperature	50°C	50°C
Maximum Operating Pressure	6 bar	6 bar



How to select your sample preparation device?

➤ Step 1: Choose the suitable membrane filtration medium Characteristics of samples

Solutions	Recommended
Solvent Mixtures	Nylon, MCE
Tissue culture Media, Buffers, Protein Analysis/ Biological Samples	CA, PVDF, PES
High Particulate Loads	With GF or PP pre-filter
Aggressive or Pure Organic Solvents	PTFE, PVDF





➤ Step2: choose the suitable diameter

Volume of samples	
<20ml	<200ml
17mm	30mm



➤ Step 3: Choose the suitable pore size based on the nature of your sample

- Removal of high particulate matter with a glass fiber pre filter is critical before any drug, toxic, or dirty environmental sample is filtered to ensure the highest syringe filter membrane performance.
- Generally, 0.45 µm porosity filters are used to remove particulates from samples and mobile phase solutions. For sterile-filtration, a 0.20 µm porosity filter can be used.

	Order No.	Pore Size(μm)	Membrane	Diameter	Package	Price (US\$/PK)
	SFNY017022N	0.22	Nylon66	17mm,	100/pk	
	SFNY017045N	0.45	Nylon66	17mm,	100/pk	
	SFNY030022N	0.22	Nylon66	30mm,	100/pk	
	SFNY030045N	0.45	Nylon66	30mm,	100/pk	
	SFPES017022N	0.22	PES	17mm,	100/pk	
	SFPES017045N	0.45	PES	17mm,	100/pk	
	SFPES030022N	0.22	PES	30mm,	100/pk	
	SFPES030045N	0.45	PES	30mm,	100/pk	
	SFPTFE017022NB	0.22	PTFE	17mm,	100/pk	
	SFPTFE017045NB	0.45	PTFE	17mm,	100/pk	
	SFPTFE030022NB	0.22	PTFE	30mm,	100/pk	
	SFPTFE030045NB	0.45	PTFE	30mm,	100/pk	
	SFPVDF017022N	0.22	PVDF	17mm,	100/pk	
	SFPVDF017045N	0.45	PVDF	17mm,	100/pk	
	SFPVDF030022N	0.22	PVDF	30mm,	100/pk	
	SFPVDF030045N	0.45	PVDF	30mm,	100/pk	

Note:

1. Sterile Syringe filter of all material are available.
2. Free samples are welcomed. We've standard sample pack for customers



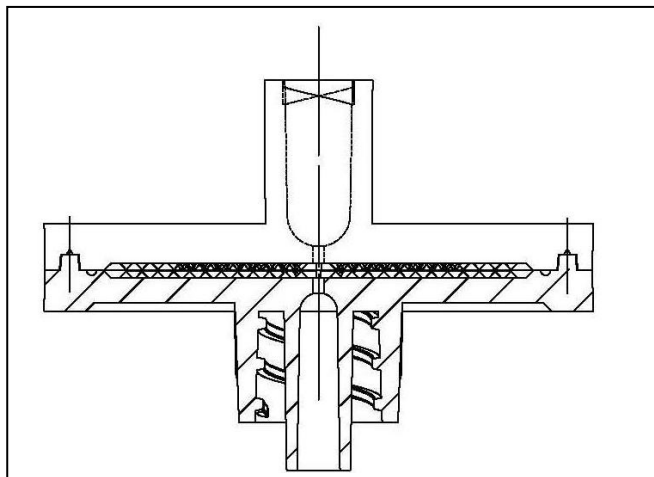
Membrane Solutions LLC

Superpure™

5 Improvements, SAME LOW PRICE, 5 Days Delivery**New range of HPLC 17mm, 30mm Syringe Filters****New Filter Design Drawing**

The Superpure 17 mm and Superpure 30 mm syringe filters manufactured by Membrane Solutions are designed to speed up and increase sample volume throughput while reducing thumb pressure. The 17 mm and 30 mm sizes, replacing the 13 mm and 25 mm sizes, offer far more value to researchers due to several new features.

They will be available with one of the following membranes in 0.22 µm or 0.45 µm pore size: Nylon66, MCE, PTFE, PES and PVDF. These filters should mainly be used for small sample volumes where the dead volume should be kept to a minimum.

**Improved Performance Benefits:**

Feature	Benefit
Color coding	Easier to tell the filter membrane
Larger filtration areas (bigger than 33mm)	Increased sample throughput
Female lure lock	Can be used as the venting filter
High resolutions print	Easier to tell the pore size of filter
Better membrane media	Improved membrane flow rates

This table offers general guidelines for membrane characteristics and compatible applications.

Membrane Type	Membrane Characteristics	Applications
Nylon66	Most frequently selected membrane; broad compatibility with aqueous and organic samples; naturally hydrophilic membrane; extremely low in extractables; excellent flow rate with most sample matrices; not compatible with strong acids or bases	General laboratory filtration; filtration for most HPLC samples. NOTE: Nylon binds protein, do not use when high protein recovery is desired
Polyethersulfone	High flow rates with good throughput volume; low protein binding; compatible with high temperature liquids; mechanically strong membrane low in inorganic extractable ions	PES is certified for Ion Chromatography; Tissue Culture filtration; filtration of proteins and nucleic acids
PTFE	Hydrophobic membrane is resistant to nearly all solvents, acids, and bases; membrane is mechanically strong and will withstand exposure to high temperature liquids; low in extractables; PTFE blocks water vapor; can be used to filter aqueous solutions	Filtration of aggressive organic, highly basic or hot solutions, ideal for transducer protectors
Hydrophilic PTFE	Hydrophilic PTFE is especially useful in HPLC sample preparation and is highly resistant to most solvents. And it's generally used for aqueous-based biological samples.	Filtration of aggressive organic, highly basic or hot solutions, ideal for aqueous filtration
MCE	Ideal for aqueous-based samples; high protein recovery from filtrate; higher tensile strength compared to CA	Aqueous sample preparation
PVDF	High protein binding, Hydrophobic membrane is resistant to nearly most solvents acid and bases.	Filtration of aggressive organic

Chemical Compatibility Chart For CA / PES Membrane

Key: R= Recommended, N= Not Recommended , T= Test, L= Limited Resistance (Testing before use is recommended)						
				ACIDS		
Chemical	CA	PES		Chemical	CA	PES
Acetone	N	N		Acetic Acid,5%	R	R
Acetonitrile	N	R		Acetic Acid,10%	N	R
Amyl Acetate	L	L		Acetic Acid,Glacial	N	R
Aniline	N	R		Boric Acid	R	T
Benzene	L	R		Hydrochloric, 6N	L	R
Bromoform	N	T		Hydrofluoric, 10%	N	R
Butyl Acetate	L	L		Nitric Acid, 6N	L	N
Carbon Tetrachloride	L	R		Nitric Acid, Conc.	L	N
Cellosolve	R	T		Sulfuric Acid, 6N	L	T
Chloroform	N	N		Sulfuric Acid, Conc.	N	N
Cyclohexane	R	T		BASES		
Cyclohexanone	N	N		Chemical	CA	PES
Diethyl Acetamide	N	T		Ammonium Hydroxide, 6N	N	R
Dimethyl Formamide	N	N		Potassium Hydroxide, 6N	N	T
Dimethyl Sulfoxide(DMSO)	N	N		Sodium Hydroxide, 6N	N	R
Dioxane	N	L		MISC.		
Ethyl Ether	L	R		Chemical	CA	PES
Ethylene Dichloride	L	T		Hydrogen Peroxide(30%)	N	T
Formaldehyde	L	R		Kodak KMER, FTFR	N	T
Freon TF	R	R		Peanut Oil	R	L
Gasoline	R	T		Petroleum Oils	T	L
Hexane	R	T		Sesame oil	R	T
Isopropyl Acetate	N	T		Shipley(AS-111, 340, 1350)	N	T
Kerosene	R	T		Silicone Oils	R	R
Methyl Acetate	N	T		ALCOHOLS		
Methyl Ethyl Ketone(MEK)	N	N		Chemical	CA	PES
Methyl Isobutyl Ketone	N	T		Amyl Alcohol	R	N
Methylene Chloride	N	N		Benzyl Alcohol	L	N
Nitrobenzene	N	N		Butyl Alcohol	R	R
Pentane	R	R		Ethyl Alcohol <80%	L	T
Perchloroethylene	R	N		Ethyl Alcohol >80%	R	R
Pyridine	N	N		Ethylene Glycol	R	R
Tetrahydrofuran	N	N		Glycerine(Glycerol)	R	R
Toluene	L	N		Isobutyl Alcohol	R	T
Trichloroethane	L	R		Isopropanol	R	R
Trichloroethylene	R	R		Methanol	R	R
Triethylamine	R	T		Methyl Cellosolve	L	T
Xylene	R	I		Propanol	R	T