

For HPLC / GC



# NYLON / PTFE Syringe Filters Promotion



*Excellent and flow rate chemical resistance against the standard aqueous and organic HPLC solvents*

Nylon Syringe Filter

PTFE Syringe Filter

1000pcs(13mm)  
1000pcs(25mm)

1000pcs(13mm)  
1000pcs(25mm)

*normally 100-pk Discount for 1000-pk . . . ASK !*

**HROMalytic** +61(0)3 9762 2034  
**ECHnology** Pty Ltd  
Australian Distributors; Importers & Manufacturers

For HPLC / GC



## Specification and Ordering Information

	Nylon		PTFE	
Item Number	SFNY013022N SFNY013045N	SFNY025022N SFNY025045N	SFPTFE013022N SFPTFE013045N	SFPTFE025022N SFPTFE025045N
Diameter	13mm	25mm	13mm	25mm
Membrane material	Nylon	Nylon	PTFE	PTFE
Housing material	PP (medical-grade)	PP (medical-grade)	PP (medical-grade)	PP (medical-grade)
Filtration area (cm <sup>2</sup> )	0.65	3.90	0.65	3.90
Pore Size(μm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (μl)	<10	<30	<10	<30
Sample volume (ml)	2-10ml	10-100ml	2-10ml	10-100ml
Flow Rate (ml/min@10psi)	0.22μm: 10 0.45μm: 15	0.22μm: 50 0.45μm: 70	0.22μm: 7 0.45μm: 12	0.22μm: 20 0.45μm: 35
Maximum Operating Temperature	110°C	110°C	90°C	90°C
Maximum Operating Pressure (psi@20°C)	13mm: 90 25mm: 60	13mm: 90 25mm: 60	13mm: 90 25mm: 60	13mm: 90 25mm: 60
Applicable pH value	3-12	3-12	1-14	1-14
Unit Package	100pcs/pk	100pcs/pk	100pcs/pk	100pcs/pk

**Other options:** 1) We can offer Nylon / PTFE Syringe Filters with pore size range: 0.1-5.0μm.  
2) MCE / PVDF / PP / PES / Glass Fiber Syringe Filters.

## Quality Assurance

All certified MS syringe filters are manufactured in a DIN EN ISO 9001 certified environment. Representative batch samples are extracted with water, methanol and acetonitrile. The extracts are measured by HPLC at 210 and 254 nm to ensure the lowest UV-absorbing extractables from the filter. Critical specifications are set for:

Bubble Point

Burst Pressure

Flow Rate

UV Extractable (by HPLC and UV-Vis Systems)



# CA / PES Syringe Filters Promotion

## GREAT QUALITY GREAT PRICE



PES Syringe Filter  
(Gamma Sterile)

Ideal For

Protein Analysis /  
Biological Samples

CA Syringe Filter  
(Gamma Sterile)

Ideal For

Tissue Culture  
Media, Buffers

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# CA / PES Syringe Filters Promotion

## Features of PES and CA Syringe Filters

- Naturally hydrophilic
- Strength and dimension stability
- Fast flow / high-throughput
- Ultra-low protein binding



## Specification and Ordering Information

	CA (Sterile)		PES (Sterile)	
Item Number	SFCA013022S	SFCA025022S	SFPES013022S	SFPES025022S
	SFCA013045S	SFCA025045S	SFPES013045S	SFPES025045S
Diameter	13mm	15mm	13mm	15mm
Membrane material	CA	CA	PES	PES
Housing material	PP(medical-grade)	PP(medical-grade)	PP(medical-grade)	PP(medical-grade)
Filtration area (cm <sup>2</sup> )	0.65	3.90	0.65	3.90
Pore Size(μm)	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45	0.22 / 0.45
Holdup volume (μl)	<10	<30	<10	<30
Sample volume (ml)	2-10ml	10-100ml	2-10ml	10-100ml
Flow Rate (ml/min@10psi)	0.22μm: 10 0.45μm: 20	0.22μm: 55 0.45μm: 80	0.22μm: 10 0.45μm: 18	0.22μm: 55 0.45μm: 85
Maximum Operating Temperature	110°C	110°C	90°C	90°C
Maximum Operating Pressure (psi@20°C)	13mm: 90 25mm: 60	13mm: 90 25mm: 60	13mm: 90 25mm: 60	13mm: 90 25mm: 60
Applicable pH value	4-8	4-8	1-14	1-14
Sterilization	γ-ray	γ-ray	γ-ray	γ-ray
Unit Package	100pcs/pk	100pcs/pk	100pcs/pk	100pcs/pk

## Quality Assurance

Membrane Solutions Syringe Filters must pass a battery of certification methods and tests. Both manufacturing and packaging processes adhere to **ISO Quality System**.

### Critical specifications are set for:

Bubble Point  
Burst Pressure  
Flow Rate  
UV Extractable  
(by HPLC and UV-Vis Systems)

### Each Sterile Filter is:

Individual packed  
Sterilized by γ-ray  
Labeled with a batch number for  
easy QC tracking

**LIFE SCIENCE  
APPROVED**

Superpure™

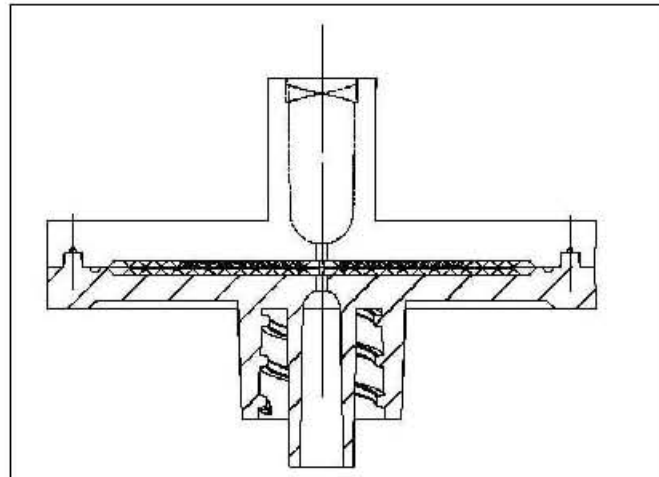
**5 Improvements, SAME LOW PRICE, 5 Days Delivery**

**New range of HPLC 17mm, 30mm Syringe Filters**

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 0.22µm or 0.45µm 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.

**New Filter Design Drawing**



**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

## Membrane Solutions

Membrane Solutions, LLC



*New Range 2010 plus  
re Availability . . . Enquire !  
- Supplied NOT necessarily  
color-coded*

### Order Information

Part No.	Pore Size(µm)	Membrane	Diameter	Package
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
SFMCE017022N	0.22	MCE	17mm,	100/pk
SFMCE017045N	0.45	MCE	17mm,	100/pk
SFMCE030022N	0.22	MCE	30mm,	100/pk
SFMCE030045N	0.45	MCE	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