

# **Sterile Syringe Filters**

- Sterile filtration and clarification
- ETO sterilised
- Comprehensive choice of membranes
- Colour-coded for easy identification
- 13 and 25mm diameter options
- 0.22 and 0.45µm porosities
- Leak-free Luer-lok and Luer connections



The Kinesis range of KX Sterile Syringe Filters offer a comprehensive range of membranes in 13 and 25mm diameters and 0.22 and 0.45µm porosities for sterile filtration and clarification.





The range of membranes exhibit the same solvent compatibility characteristics and application areas as their non-sterile equivalent (please request the Kinesis KX Syringe Filter Application Guide).

Applications include:

- Clarification of sterile solutions
- Sterile filtration, including DMSO
- Cell culture media prep
- Sterile filtration and Mycoplasma removal

The filters are individually sealed, maintaining the sterility from the original controlled manufacturing environment.

As well as the stringent and controlled manufacturing conditions used to sterilise KX Syringe Filters, all KX Sterile Syringe Filters exhibit the same physical specifications as the non-sterile equivalent.

PROPERTY	DIAMETER (mm)	
	13	25
Filter Area (cm <sup>2</sup> )	0.65	3.9
Burst Pressure (psi)	100	100
Retain Volume (µl)	30	120
Sample Volume (ml)	6	70
Housing Material	Polypropylene	
Connection (inlet/outlet)	Female Luer-lok/Male Luer	

## Syringe Filter Membrane Selection Guide

### Cellulose Acetate

- Naturally hydrophilic membrane
- Low protein binding; suitable for use with aqueous protein solutions
- Nitrate free; suitable for groundwater filtration
- Uniform pore size

### Mixed Cellulose Esters (MCE)

- Improved hydrophilic character and very low protein binding
- Improved aqueous sample flow and molecular weight cut off
- Ideal for aqueous based samples, tissue culture and sensitive biological samples
- Lower chemical resistance

### Nylon

- Hydrophilic surface, good solvent resistance and medium protein binding
- Filtration of all aqueous samples and most organic solvents
- Strong mechanical stability
- Excellent chemical compatibility (esters, bases, phenol and alcohols)

### PES

- Naturally hydrophilic and low protein binding
- Ideal for aqueous based samples
- Fast flow rate and high throughput
- General filtration of biological samples

### PTFE

- Highest solvent resistance and high protein binding
- Filtration of non-aqueous or solvent based samples
- Condition with methanol or ethanol prior to aqueous sample filtration
- Extremely broad chemical and thermal compatibility
- Recommended for strong acids and bases

### PVDF

- Broad chemical compatibility and low UV absorbing extractables
- Highly resistant to most solvents and low protein binding
- General filtration of biological samples
- Filtration of all aqueous and most solvent based samples
- Filtration of proteins and tissue cultures

### Regenerated Cellulose

- Hydrophilic
- Easily wettable
- Resistant to most solvents and aqueous solutions (pH range 3 - 12)
- Low non-specific adsorption
- Particle removal from solvents
- Mobile phase filtration for HPLC



## Ordering Information

All KX Sterile Syringe Filters are available in 13 and 25mm diameters and 0.22 and 0.45µm porosities.

PART NUMBER	DESCRIPTION	COLOUR	PACK SIZE
<b>Cellulose Acetate</b>			
SFS-CA-13-022	KX Sterile Syringe Filter, Cellulose Acetate, 13mm, 0.22µm	White	48
SFS-CA-13-045	KX Sterile Syringe Filter, Cellulose Acetate, 13mm, 0.45µm	Pale Blue	48
SFS-CA-25-022	KX Sterile Syringe Filter, Cellulose Acetate, 25mm, 0.22µm	White	50
SFS-CA-25-045	KX Sterile Syringe Filter, Cellulose Acetate, 25mm, 0.45µm	Pale Blue	50
<b>Mixed Cellulose Esters</b>			
SFS-MC-13-022	KX Sterile Syringe Filter, Mixed Cellulose Esters, 13mm, 0.22µm	Orange	48
SFS-MC-13-045	KX Sterile Syringe Filter, Mixed Cellulose Esters, 13mm, 0.45µm	Brown	48
SFS-MC-25-022	KX Sterile Syringe Filter, Mixed Cellulose Esters, 25mm, 0.22µm	Orange	50
SFS-MC-25-045	KX Sterile Syringe Filter, Mixed Cellulose Esters, 25mm, 0.45µm	Brown	50
<b>Nylon</b>			
SFS-NY-13-022	KX Sterile Syringe Filter, Nylon, 13mm, 0.22µm	Blue	48
SFS-NY-13-045	KX Sterile Syringe Filter, Nylon, 13mm, 0.45µm	Light Blue	48
SFS-NY-25-022	KX Sterile Syringe Filter, Nylon, 25mm, 0.22µm	Blue	50
SFS-NY-25-045	KX Sterile Syringe Filter, Nylon, 25mm, 0.45µm	Light Blue	50
<b>PES</b>			
SFS-PES-13-022	KX Sterile Syringe Filter, PES, 13mm, 0.22µm	Red	48
SFS-PES-13-045	KX Sterile Syringe Filter, PES, 13mm, 0.45µm	Pink	48
SFS-PES-25-022	KX Sterile Syringe Filter, PES, 25mm, 0.22µm	Red	50
SFS-PES-25-045	KX Sterile Syringe Filter, PES, 25mm, 0.45µm	Pink	50
<b>PTFE</b>			
SFS-PT-13-022	KX Sterile Syringe Filter, PTFE, 13mm, 0.22µm	Green	48
SFS-PT-13-045	KX Sterile Syringe Filter, PTFE, 13mm, 0.45µm	White	48
SFS-PT-25-022	KX Sterile Syringe Filter, PTFE, 25mm, 0.22µm	Green	50
SFS-PT-25-045	KX Sterile Syringe Filter, PTFE, 25mm, 0.45µm	White	50
<b>PVDF</b>			
SFS-PV-13-022	KX Sterile Syringe Filter, PVDF, 13mm, 0.22µm	Pale Orange	48
SFS-PV-13-045	KX Sterile Syringe Filter, PVDF, 13mm, 0.45µm	Pale Red	48
SFS-PV-25-022	KX Sterile Syringe Filter, PVDF, 25mm, 0.22µm	Pale Orange	50
SFS-PV-25-045	KX Sterile Syringe Filter, PVDF, 25mm, 0.45µm	Pale Red	50
<b>Regenerated Cellulose</b>			
SFS-RC-13-022	KX Sterile Syringe Filter, Regenerated Cellulose, 13mm, 0.22µm	Dark Blue	48
SFS-RC-13-045	KX Sterile Syringe Filter, Regenerated Cellulose, 13mm, 0.45µm	Yellow	48
SFS-RC-25-022	KX Sterile Syringe Filter, Regenerated Cellulose, 25mm, 0.22µm	Dark Blue	50
SFS-RC-25-045	KX Sterile Syringe Filter, Regenerated Cellulose, 25mm, 0.45µm	Yellow	50

## Other filtration products available from Kinesis

New membranes available:  
 Regenerated Cellulose,  
 Hydrophilic PTFE and  
 Hydrophilic PVDF

### Syringe Filters

- Comprehensive range of membranes
- Colour coded for easy identification
- Solvent resistant housing with minimal extractables
- Leak-free Luer-Lok and Luer connections
- User-friendly storage options
- Available with integral pre-filter
- Bulk pack options available

Kinesis KK Syringe Filters is a comprehensive range of non-sterile, disposable syringe filters for reliable sample preparation. Reproducible membrane quality and automated manufacturing processes ensure particulates are removed from each and every sample, extending analytical column lifetime and minimising injection port or valve damage.

Utilising the standard Luer-Lok/Luer connections, KK Syringe Filters are available in 0.22 and 0.45µm pore sizes and 4, 13, 25 and 50mm diameters. KK Syringe Filters are available in a wide selection of membranes, including Nylon, PTFE and PVDF, supporting all common sample preparation applications.

The use of retarder ring seals the polycarbonate housing, preventing leaking and sample loss.

All KK Syringe Filters are colour coded, allowing easy identification of an individual filter, ensuring the correct filter is selected for each sample.

KK Syringe Filters are supplied in re-sealable containers allowing easy storage and preventing contamination during multiple opening/closing.

For particulate laden samples, KK Syringe Filters are also available with an integral depth filter.



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### Membrane Filters and Filtration System

- Allows testing of large sample volumes
- Reduces preparation time compared to traditional filtration methods
- Isolation of discrete colonies of bacteria
- Drinking water monitoring
- Bacterial monitoring in the pharmaceutical, food and beverage samples, cosmetics and electronics
- HPLC mobile phase filtration


#### Membrane Filters


Membrane filters are microporous films with specific pore size specifications. The membranes retain particles and microorganisms that are greater than the pore specification, acting as a physical barrier and holding back the particles on the surface of the membrane.

KK Membrane Filters are available in a range of membranes, diameters and pore sizes that make them suitable for a wide range of analytical and life science applications.

#### Membrane Filtration Systems for 47mm Membranes

Designed for rapid filtration of particulate matter from large volumes, these units offer excellent value. Filter valuable samples and protect HPLC instruments and columns from mobile phase particulates. The vacuum filter assembly comes with a reservoir and receiving flask. A 47mm diameter membrane filter is placed between the filter plate support and the reservoir, secured in place with a clamp. The reservoir is connected to the receiving flask by a vacuum-tight ground-glass joint. Connect the receiving flask to the vacuum line to start filtration.



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<p><b>Kinesis Ltd</b>                  Tel: +44 (0)1480 212122                  E-mail: <a href="mailto:sales@kinesis.co.uk">sales@kinesis.co.uk</a>                  Web: <a href="http://kinesis.co.uk">kinesis.co.uk</a></p> <p><b>Kinesis Inc</b>                  Tel: (518) 289-5817                  Toll free for USA (866) 934-6353                  Email: <a href="mailto:sales@kinesis-usa.com">sales@kinesis-usa.com</a>                  Web: <a href="http://kinesis-usa.com">kinesis-usa.com</a></p>	<p><b>Kinesis GmbH (formerly Abimed)</b>                  Tel: +49 (0)2173 89 05-0                  Email: <a href="mailto:sales@kinesisgmbh.de">sales@kinesisgmbh.de</a>                  Web: <a href="http://kinesisgmbh.de">kinesisgmbh.de</a></p> <p><b>Kinesis Australia Pty Ltd</b>                  Tel: +61 (0)7 3829 3996                  Email: <a href="mailto:sales@kinesis-australia.com.au">sales@kinesis-australia.com.au</a>                  Web: <a href="http://kinesis-australia.com.au">kinesis-australia.com.au</a></p>	<p><b>Kinesis India Pvt. Ltd</b>                  Tel: +91-22-661 41 668                  Email: <a href="mailto:info@kinesisindia.net">info@kinesisindia.net</a>                  Web: <a href="http://kinesisindia.net">kinesisindia.net</a></p> <p><b>Kinesis China</b>                  Tel: +86-21-33620260                  Email: <a href="mailto:charlest@kinesis-asia.com">charlest@kinesis-asia.com</a>                  Web: <a href="http://kinesis-asia.com">kinesis-asia.com</a></p>
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