

K_x 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 ²) | 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 |
|-------------------------------|---|-------------|-----------|
| Cellulose Acetate | | | |
| 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 |
| Mixed Cellulose Esters | | | |
| 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 |
| Nylon | | | |
| 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 |
| PES | | | |
| 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 |
| PTFE | | | |
| 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 |
| PVDF | | | |
| 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 |
| Regenerated Cellulose | | | |
| 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

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 elastomer 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.

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





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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 glass 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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