

# **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 KX 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, KX Syringe Filters are available in 0.22 and 0.45µm porosities and 4, 13, 25 and 30mm diameters. KX Syringe Filters are available in a wide selection of membranes, including Nylon, PTFE and PVDF, supporting all common sample preparation applications.

The use of a retainer ring seals the polypropylene housing, preventing leaking and sample loss.

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

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

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



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 **Kinesis**  
Scientific Experts

# Choosing the right KX Syringe Filter

## 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)

## 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

## 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

## PES

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

## Polypropylene

- Hydrophobic
- High solvent resistance
- Lower protein binding
- General filtration of biological samples, solvents, deionised water and reduction of biological load
- Filtration of all aqueous and most solvent based samples

## Hydrophilic PTFE

- Low protein binding
- Particulate removal from aqueous and organic solutions
- High flow rates with minimal aqueous extractables
- Wide range of working temperatures
- Recommended for filtering HPLC samples and mobile phases
- Compatible with organic solvents and strong alkaline solutions

## Hydrophilic PVDF

- Modified PVDF membrane for inherent water wettability
- Extremely low protein and preservative binding
- Compatible with a wide range of solvents, acids and chemicals
- Extremely low extractables
- Filtration of antibiotics, vaccines, diagnostics, serum, tissue culture media and media additives
- Clarification and purification of deionised water, aqueous solvents, acids, bases and plating solutions

## 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

All 13, 25 and 30mm KX Syringe Filters also available with integral pre-filter.

For further information visit: [kinesis-usa.com/kxysyningefilters](http://kinesis-usa.com/kxysyningefilters)

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