



Syringe Filters

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

- Comprehensive range of membranes
- Color 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

Utilizing the standard Luer-lok/Luer connections, KX syringe filters are available in 0.22 μm and 0.45 μm porosities and 4 mm, 13 mm, 25 mm, 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 color coded, allowing easy identification of an individual filter, ensuring the correct filter is selected for each sample.

KX syringe filters are supplied in resealable 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.

▶ Nylon

▶ PTFE

▶ Hydrophilic PTFE

▶ PES

▶ PVDF

▶ Hydrophilic PVDF

▶ Mixed Cellulose Esters (MCE)

▶ Regenerated Cellulose

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, phenols, and alcohols)

Nylon without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Nylon 4 mm	0.22 µm	100	ESF-NY-04-022	12915-77
	0.45 µm	100	ESF-NY-04-045	12915-78
Nylon 13 mm	0.22 µm	100	ESF-NY-13-022	12915-80
	0.45 µm	100	ESF-NY-13-045	12915-83
Nylon 25 mm	0.22 µm	100	ESF-NY-25-022	12915-87
	0.45 µm	100	ESF-NY-25-045	12915-90
Nylon 30 mm	0.22 µm	100	ESF-NY-30-022	12915-99
	0.45 µm	100	ESF-NY-30-045	12916-02

Nylon with integral pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Nylon 13 mm	0.22 µm	100	ESF-NY-13-022-PF	12915-82



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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

PTFE without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
PTFE 4 mm	0.22 µm	100	ESF-PT-04-022	12916-56
	0.45 µm	100	ESF-PT-04-045	12916-58
PTFE 13 mm	0.22 µm	100	ESF-PT-13-022	12916-60
	0.45 µm	100	ESF-PT-13-045	12916-63
PTFE 25 mm	0.22 µm	100	ESF-PT-25-022	12916-66
	0.45 µm	100	ESF-PT-25-045	12916-69
PTFE 30 mm	0.22 µm	100	ESF-PT-30-022	12916-74
	0.45 µm	100	ESF-PT-30-045	12916-77

PTFE with integral pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
PTFE 25 mm	0.22 µm	100	ESF-PT-25-022-PF	12916-68
	0.45 µm	100	ESF-PT-25-045-PF	12916-71
PTFE 30 mm	0.22 µm	100	ESF-PT-30-022-PF	—
	0.45 µm	100	ESF-PT-30-045-PF	—



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Hydrophilic PTFE

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

Hydrophilic PTFE without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Hydrophilic PTFE 13 mm	0.22 μm	100	ESF-PTH-13-022	12916-80
	0.45 μm	100	ESF-PTH-13-045	12916-83
Hydrophilic PTFE 25 mm	0.22 μm	100	ESF-PTH-25-022	12916-86
	0.45 μm	100	ESF-PTH-25-045	12916-89


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PES

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

PES without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
PES 4 mm	0.22 µm	100	ESF-PES-04-022	12916-06
	0.45 µm	100	ESF-PES-04-045	12916-08
PES 13 mm	0.22 µm	100	ESF-PES-13-022	12916-10
	0.45 µm	100	ESF-PES-13-045	12916-13
PES 25 mm	0.22 µm	100	ESF-PES-25-022	12916-16
	0.45 µm	100	ESF-PES-25-045	12916-19
PES 30 mm	0.22 µm	100	ESF-PES-30-022	12916-22
	0.45 µm	100	ESF-PES-30-045	12916-25



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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

PVDF without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
PVDF 4 mm	0.22 µm	100	ESF-PV-04-022	12916-98
	0.45 µm	100	ESF-PV-04-045	12917-00
PVDF 13 mm	0.22 µm	100	ESF-PV-13-022	12917-02
	0.45 µm	100	ESF-PV-13-045	12917-05
PVDF 25 mm	0.22 µm	100	ESF-PV-25-022	12917-08
	0.45 µm	100	ESF-PV-25-045	12917-11
PVDF 30 mm	0.22 µm	100	ESF-PV-30-022	12917-17
	0.45 µm	100	ESF-PV-30-045	12917-20

PVDF with integral pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
PVDF 13 mm	0.22 µm	100	ESF-PV-13-022-PF	12917-04
	0.45 µm	100	ESF-PV-13-045-PF	12917-07



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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

Hydrophilic PVDF without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Hydrophilic PVDF 25 mm	0.45 µm	100	ESF-PVH-25-045	12917-32
Hydrophilic PVDF 30 mm	0.45 µm	100	ESF-PVH-30-045	12917-38

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 cultures and sensitive biological samples
- Lower chemical resistance

MCE without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
MCE 4 mm	0.22 µm	100	ESF-MC-04-022	12915-53
	0.45 µm	100	ESF-MC-04-045	12915-55
MCE 13 mm	0.22 µm	100	ESF-MC-13-022	12915-57
	0.45 µm	100	ESF-MC-13-045	12915-60
MCE 25 mm	0.22 µm	100	ESF-MC-25-022	12915-63
	0.45 µm	100	ESF-MC-25-045	12915-66
MCE 30 mm	0.22 µm	100	ESF-MC-30-022	12915-70
	0.45 µm	100	ESF-MC-30-045	12915-73



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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

Regenerated Cellulose without pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Regenerated Cellulose 13 mm	0.22 µm	100	ESF-RC-13-022	12917-45
	0.45 µm	100	ESF-RC-13-045	12917-48
Regenerated Cellulose 25 mm	0.22 µm	100	ESF-RC-25-022	12917-51
	0.45 µm	100	ESF-RC-25-045	12917-54
Regenerated Cellulose 30 mm	0.22 µm	100	ESF-RC-30-022	12917-57
	0.45 µm	100	ESF-RC-30-045	12917-60

Regenerated Cellulose integral pre-filter				
Description	Pore Size	Pack Size	Mfg Part #	SKU #
Regenerated Cellulose 25 mm	0.45 µm	100	ESF-RC-25-045-PF	12917-56
Regenerated Cellulose 30 mm	0.45 µm	100	ESF-RC-30-045-PF	12917-62

Specifications

Property	Diameter (mm)			
	4	13	25	30
Filter Area (cm ²)	0.1	0.65	3.9	4.5
Burst Pressure (psi)	75	100	100	100
Retain Volume (µL)	8	30	120	140
Sample Volume (mL)	2	6	70	90
Housing Material	Polypropylene			
Connector (inlet/outlet)	Female Luer-Lok/Male Luer			


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