

NYLON SYRINGE FILTERS

PRODUCT DESCRIPTION

Axiva 4 mm, 13 mm, 25 mm & 33 mm Nylon Syringe Filters exist in pore rating of 0.2 μm & 0.45 μm & remove microorganisms, particles, precipitates, and un-dissolved solid particles / high particulate solution larger than 0.2 μm & 0.45 μm from aqueous or organic solutions. These single use products consist of a hydrophilic Nylon 6,6 membrane filter sealed in PP (Polypropylene) housing. They are non-toxic. Nylon filters are manufactured using a unique impregnate process that eliminates cracking, tearing, breaking and distortion during use.

Axiva Nylon Syringe Filters have low extractable which assure them for ideal solvent filtration and sample preparation for analytical applications. They do not contain any adhesive, detergents or surfactants. They are chemically inert, makes them better for filtering more aggressive solutions. These Nylon Syringe Filters are 100% integrity tested during manufacturing to guarantee filter integrity and sterility assurance. The production processes of Nylon Syringe Filters have been validated and the manufacturing plant is accredited with a registered body to an ISO 9001: 2008 Quality System Standards and meets the CE Certification.

TYPICAL APPLICATIONS

Axiva Syringe filter is designed to meet speed up and increase sample volume while reducing back pressure caused by the blocking of an unprotected membrane. Typical research laboratory applications include:

- Sample filtration for HPLC Analysis and LC-MS Analysis.
- Filtration of aqueous as well as organic solvent filtration.
- Suitable for method development processes with high product recovery.
- Applicable to sterile filtration of solution of interest, buffer solutions and salt solutions.
- Clarifications and sterile filtration of biological solutions, tissue culture media, additives, buffers, and water.

PRODUCT SPECIFICATION – DESIGN & COMPOSITION

Technical Specifications

Syringe Filter Diameter	Dimensions
4 mm (0.16 in)	Length (inlet to outlet) : 20.7 mm (0.81 in) (+0.05 in)
13 mm (0.51 in)	Length (inlet to outlet) : 21.0 mm (0.82 in) (+0.05 in)
25 mm (0.98 in)	Length (inlet to outlet) : 20.7 mm (0.81 in) (+0.05 in)
33 mm (1.29 in)	Length (inlet to outlet) : 20.5 mm (0.80 in) (+0.05 in)

Material of Construction	Filter Media: Hydrophilic Nylon _{6,6} membrane with 0.2µm & 0.45µm Housing: PP (Polypropylene)
Colour	Blue unit (for 4mm); White top & base with blue colour code on top with 0.45 µm and top & Base with black colour code on top with 0.2 µm (13mm, 25 mm & 33 mm)
Connections	Inlet: Female Luer-Lock (FLL) Outlet: Male Slip Luer (MSL)
Effective Filtration Area	4 mm: 0.1 cm ² , 13 mm: 0.8 cm ² , 25 mm: 3.9 cm ² , and 33 mm: 6.4 cm ²
Maximum Temp Static	50°C (113°F)
Housing Burst at 25°C	100 psi (7 bar)
Bubble Point Test (psig)	≥52 psi for 0.2µm; & ≥ 30 psi for 0.45µm (with distilled water)
Hold-up Volume (After Air purge)	< 10 µl for 4 mm, < 20 µl for 13 mm, < 50 µl for 25 mm and < 80 µl for 33 mm
Sample Volume	< 1 ml for 4 mm, <10 ml for 13 mm, <100 ml for 25 mm, <150 ml for 33 mm
Water Flow Rate (10 psi)	45.5 mL/ min for 0.2 µm and 125.5 mL/min for 0.45 µm for 25 mm
Nylon Membrane Thickness	140 ± 10 µm for 0.2 µm and 150 ± 10 µm for 0.45 µm
Wettability	Hydrophilic
Filtration Direction	Flow from inlet to outlet (FLL to MSL) and vice-versa
Sterilization	ETO (Ethylene oxide) (Only for <i>Sterile</i> Nylon Syringe Filter)
Applicable pH range	2-14

ORDERING INFORMATION

For Nylon Sterile Syringe Filter

Cat No.	Dia.	Filtration Rating	Qty.	Sterilization
SFNY04R	04 mm	0.2 µm	100	ETO Sterilized
SFNY04X	04 mm	0.45 µm	100	ETO Sterilized
SFNY13R	13 mm	0.2 µm	100	ETO Sterilized
SFNY13X	13 mm	0.45 µm	100	ETO Sterilized
SFNY25R	25 mm	0.2 µm	50	ETO Sterilized
SFNY25X	25 mm	0.45 µm	50	ETO Sterilized
SFNY33R	33 mm	0.2 µm	50	ETO Sterilized
SFNY33X	33 mm	0.45 µm	50	ETO Sterilized

For Nylon Non-Sterile Syringe Filter

Cat No.	Dia.	Filtration Rating	Qty.
SFNY04RB	04 mm	0.2 µm	100
SFNY04XB	04 mm	0.45 µm	100
SFNY13RB	13 mm	0.2 µm	100
SFNY13XB	13 mm	0.45 µm	100
SFNY25RB	25 mm	0.2 µm	100
SFNY25XB	25 mm	0.45 µm	100
SFNY33RB	33 mm	0.2 µm	50
SFNY33XB	33 mm	0.45 µm	50