

mdi Pre-sterilized Nylon membrane syringe filters are ideal for sterilization of solvents in the lab.

These filters offer absolute retention along with wide chemical compatibility, extremely low extractables and excellent flow rates.

These filters are manufactured in ISO-9001 certified quality management system, and validated and assured for quality to ensure superior performance.

Special Features

- Absolute retention
- Low hold-up volume
- Minimum back pressure
- Extremely low extractable
- Hydrophilic, no pre-wetting required
- Wide chemical compatibility
- Heat sealed to ensure 'no leaching'
- No initial flushing required
- Validated for bacterial retention as per ASTM F838-05

Applications

- Sterile Filtration of DMSO for Cryo-preservation of stem cells
- Special 5µm filters for particulate removal from pharmaceutical parenterals just before administration



Specifications

Materials of Construction

Housing	Polypropylene
Filter Media	Nylon-66 Membrane

Pore Size

0.2 µm, 0.45 µm, 5 µm

Bubble Point

0.2 µm	≥ 50 psi (≥ 3.52 Kg/cm ²)
0.45 µm	≥ 30 psi (≥ 2.11 Kg/cm ²)

Inlet/Outlet Connections

Inlet: Female luer-lock
Outlet: Male luer slip

Typical Hold-up Volume(with air purge)

4mm	13mm	25mm
<5µl	<20µl	<50µl

Sterilization Compatibility

Autoclavable	Yes
EO Sterilizable	Yes

Burst Pressure (13mm/25mm)

>14kg/cm²

Max. Operating Temperature

55 °C

Max. Operating Pressure

75 psi @ 25° C

Retention Efficiency

0.2 µm	LRV >10 ⁷ <i>B. diminuta</i> (ATCC 19146) per cm ² of filter area
0.45 µm	LRV >10 ⁷ <i>S. marcescens</i> (ATCC 14756) per cm ² of filter area

Recommended Sample Volume

4mm	13mm	25mm
< 1 ml	< 10 ml	< 100 ml

Biosafety

Passes the Biological Reactivity Tests, *In Vivo* for Class VI plastics as described in USP <88>.

Fiber Release

Complies with USFDA CFR Title 21, Part 211.92 and do not requires any initial Flushing



Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

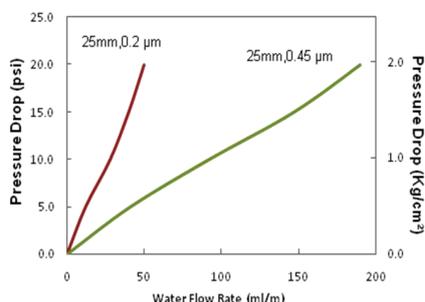
Indirect Food Additives

The plastic housing material complies with the requirements of USFDA CFR Title 21 Part 177.1520

Oxidizable Matter

Passes test as per USP <1231>

Water Flow Rate



Packaging

Standard Pack:

Pre-sterilized Nylon membrane syringe filters are individually packed in blister packs with peel off. The integrity of the package has been validated as per ASTM F 1929 – 98.

These individually packed filters are packed in boxes of 100 each specially designed for easy front access.



Storage

It is recommended to keep the syringe filters:

- i. at clean and dry location
- ii. away from direct heat sources at temperature below 50°C

Ordering Information

Type	Size	Pore Size	Inlet/Outlet	XX	Sterility	Pack Size				
Code	Diameter	Code	Code	Code	Code	Qty				
Pre-sterilized Nylon-66 Membrane Syringe Filter	4mm	01	0.2µm	01	Female Luer Lock	M	EO Sterile	2	100	04
	13mm	03	0.45µm	02	Male Luer Slip	N				
	25mm	06	5µm	07						

Example:										
SYNN	03	02	MN	XX	2	04				