

High quality performances in critical filtration

Positive charged (Z+) Nylon 66 membrane,
Pre-washed with DI non pyrogenic water
specific for pharma and critical applications

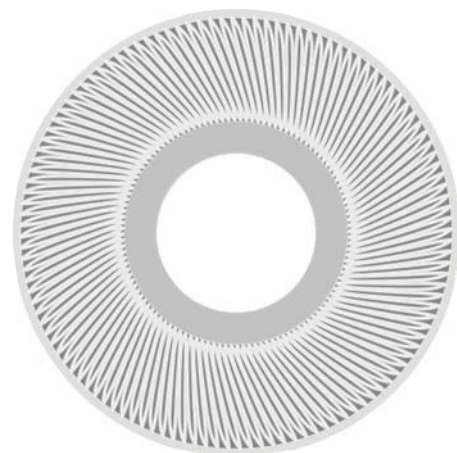
ABSO NY⁺

Positive Zeta Potential (Z+) for enhanced bio-reduction performance and submicron particle removal

Today's market demands filtering systems featuring high retention capability of sub-micron particles such as endotoxins in water.

ABSO NY⁺ cartridges have been specially designed for bio-pharma applications where neutral membrane cannot retain negative (Z-) charged fine particles smaller than the membrane's rating itself. The excellent water wettability of nylon and polypropylene allows an easy integrity test.

An innovative pleating system increases the filtering area, so that performance quality remains unaltered until clogging.



> ABSO NY⁺

The dependability of a Z+ Nylon membrane, extremely reliable in terms of filtration efficiency.

TECHNICAL SPECIFICATIONS

- Positive Zeta potential, uniform filtration across the entire surface, non-fiber migration
- Enhanced endotoxins retention
- Pre-flushed with DI non pyrogenic water (<0.25 EU/ml)
- Manufactured in a clean room environment
- All materials meet FDA CFR 21; Plastics compliant with USP Class VI "Plastic Biosafety"
- In compliance with the EU regulation for food contact in EC Countries (10/2011 + amendments; 1935/2004;1895/2005)
- 100% tested for integrity prior to packing

OPERATING CONDITIONS

Max operating pressure (Δp)	80°C @ 1.0 bar 20°C @ 5.0 bar
Recommended replacement pressure drop	2.0 bar @20°C
Suggested operating pressure range	0.1 to 1.0 bar

PORE SIZE RATING & TYPICAL DATA

0.2um – 0.45um

Membrane Endotoxin Retention - 350l/h/10"	Membrane Microbial Titer Reduction (TR) ASTM F 838-05
>99.99 gm	$T_R > 10^7 / \text{cm}^2 // 0.2\mu\text{m}$ [Brevundimonas Diminuta] : 99.99%
>99.95 gm	$T_R > 10^7 \text{ cm}^2 // 0.45\mu\text{m}$ [Serratia Marcescens] : 99.99%

FLOW RATE

Water Flow 20°C @0.1 bar /10"	0.20 um	0.45 um
Typical Flow Rate	7 L/min	12 L/min

Extrapolation for multiple housings and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent

FILTRATION AREA

0.6m²/10"

SANITIZATION

Steam : 125°C/30mins – Hot Water : 80°C/30mins – Autoclave : 121°C/30mins

MATERIALS OF CONSTRUCTION

Filtering media	Nylon 66 with positive zeta potential
Supports	Polypropylene
Inner sleeve	Polypropylene + ss316 insert
Connections and tip	Polypropylene
Gaskets	Silicone (standard), EPDM, Viton, FEP

SEALING

Ultrasound / Heat sealing

DIMENSION

Length	254mm (10")-508mm (20")-762mm (30")-1016mm (40")
Outer diameter	69mm
Inner diameter	26mm

TRACEABILITY

Each filter element is identified by a lot number for complete traceability.