

ABSNON ES™

Nylon Membrane Filters for the Electronics



INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Photoresists
-  **Chemicals** : Acids, Bases, Solvents

ABSNON ES™ is an asymmetric Nylon66 membrane filter with an all-polypropylene construction designed for a wide range of chemical filtration in the electronic industries.

ABSNON ES™ are made up of a multi-zone Nylon66 membrane in an all-polypropylene construction with a high surface area, providing for very low pressure drops and longer filter service life. Nylon is characterized as a polymer with polar functional groups, which effectively help the filters retain polar particles, metal ions and gel contaminants.

FEATURES & BENEFITS

- Asymmetric pore structure and thicker membrane provides high dust holding capacity and longer filter life
- Inherently hydrophilic property minimizes initial pressure drop
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility
- Available in a wide range of end styles and micron ratings

TECHNICAL DATA

Nominal Dimensions

- Cartridge 68Ø**
- Length : 250, 500, 750, 1000 mm
- Inner Diameter : 30 mm
- Outer Diameter : 68 mm

CAP I

- Length : 143, 216 mm
- Outer Diameter : 71 mm / 73 mm

CAP II

- Length : 203, 212 mm
- Outer Diameter : 97 mm



Capsule series CAP I and CAP II



* For details, see the Appendix II – Capsule Filter Types

Materials of Construction

- Filtration Media Nylon
- Support Media Polypropylene
- Inner Core Polypropylene
- Outer Cage Polypropylene
- End Caps Polypropylene
- Shell Polypropylene
- O-rings / Gaskets Silicone, EPDM, Viton, TEV

Max. Operating Temperature

- Cartridge : 80°C (176°F)
- Capsules : 60°C (140°F)

Max. Operating Forward Differential Pressure

- 4 bard (58.0 psid) at 20 °C
- 3 bard (43.5 psid) at 40 °C
- 2 bard (29.0 psid) at 60 °C
- 1 bard (14.5 psid) at 80 °C

Recommended Change Out Differential Pressure

- 2 bard (29.0 psid)

Nominal Pore Sizes

- 0.02, 0.04, 0.1, 0.2, 0.45, 1 µm

Pre-Flush

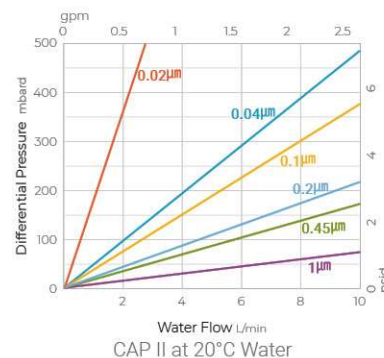
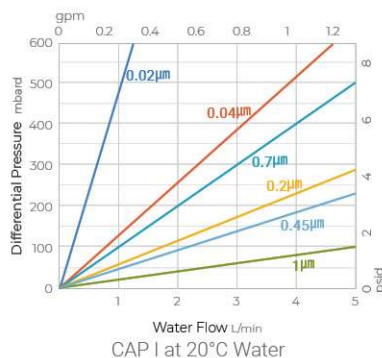
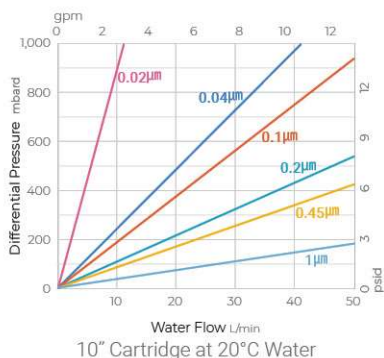
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

Filtration Area

- Cartridge 68Ø : 0.6 m² / 10 inch
- CAP I : 0.12 m² / unit
- CAP II : 0.3 m² / unit

TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP



ORDERING INFORMATION

CARTRIDGES

① NES	-	② 001	-	③ C1	P	④ S	-	⑤ 10	
		MICRON RATING			END STYLE			SEALS	LENGTH
		P02 : 0.02µm P04 : 0.04µm P10 : 0.1µm P20 : 0.2µm P45 : 0.45µm 001 : 1µm			C1 : DOE C2 : 226Lock/FLAT C3 : c222/cFLAT E3 : 222/FLAT C7 : 226Lock/FIN E8 : 222/FIN			S : Silicone E : EPDM V : Viton F : TEV	10 : 250mm 20 : 500mm 30 : 750mm 40 : 1,000mm 1E : 254mm 2E : 508mm 3E : 762mm 4E : 1,016mm

CAPSULE SERIES

① C1	② NES	-	③ 001	-	④ S6	P	⑤ S	-	⑥ 1S																																										
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