






# ABSFON ES™

PES Membrane Filters for the Electronics



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Plating solutions, Wash solutions, Magnetic coatings
-  **Chemicals** : Acids, Bases, Solvents
-  **Cosmetics** : Process water, Alcohol, Creams, Oils
-  **Coats** : Inks
-  **Water treatment** : POU filtration

ABSFON ES™ is an advanced PES (polyethersulfone) membrane filter designed for electronic industries to meet and surpass the critical requirements.

ABFON ES™ utilizes an asymmetric PES membrane, which has a pore morphology that delivers graded filtration throughout its depth, resulting in exceptional high flow rate and long filter life.

## FEATURES & BENEFITS

- Highly asymmetric pore structure provides high dust holding capacity and longer filter life
- Consistent and reliable filtration performance
- Inherently hydrophilic property minimizes initial pressure drop
- High flow rate
- No binders are present to interrupt product quality
- All polypropylene construction provides excellent chemical compatibility and very low level of extractables
- 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

### FLUX I

- Length : 250 mm
- Diameter (ID/OD) : 38 mm / 82 mm

### FLUX II

- Length : 250 mm
- Diameter (ID/OD) : 52 mm / 131 mm

### CAP I

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

### CAP II

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



### Flux series FLUX I, FLUX II / Capsule series CAP I, CAP II



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

### Materials of Construction

- Filtration Media : PES (Polyethersulfone)
- Support Media : Polypropylene
- Inner Core : Polypropylene
- Outer Cage : Polypropylene
- End Caps : Polypropylene
- Shell : Polypropylene
- O-rings / Gaskets : Silicone, EPDM, Viton, TEV

### Max. Operating Temperature

80°C (176°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

0.04, 0.1, 0.2, 0.45, 0.6, 0.8, 1.2 µm

### Bacterial Retention

≥ LRV7

\* Performed in accordance with ASTM F 838-15, ATCC 19146 Brevundimonas diminuta

### Pre-Flush

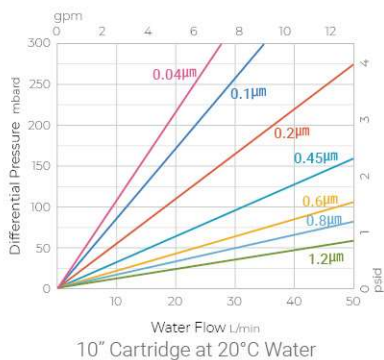
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

### Filtration Area

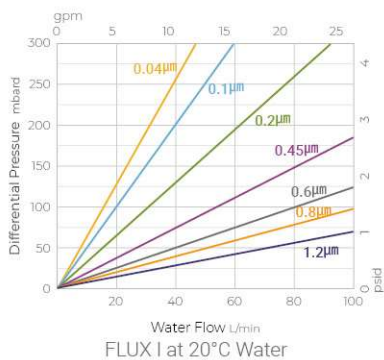
- Cartridge 68Ø : 0.6 m<sup>2</sup> / 10 inch
- FLUX I : 1.1 m<sup>2</sup> / 10 inch
- FLUX II : 2.5 m<sup>2</sup> / 10 inch
- CAP I : 0.11 m<sup>2</sup> / unit
- CAP II : 0.29 m<sup>2</sup> / unit

**TYPICAL CLEAN WATER FLOW**

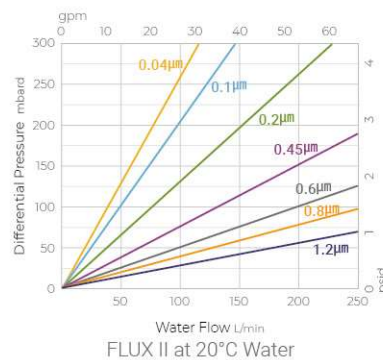
**CARTRIDGE & FLUX**



10" Cartridge at 20°C Water

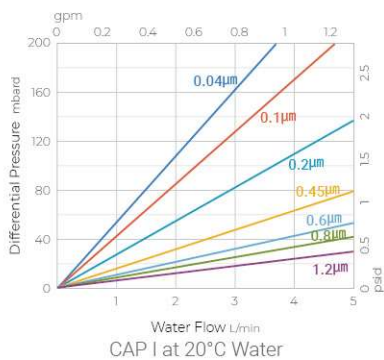


FLUX I at 20°C Water

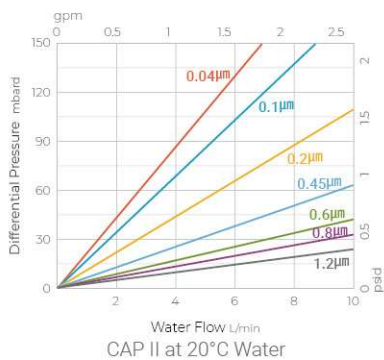


FLUX II at 20°C Water

**CAP**



CAP I at 20°C Water



CAP II at 20°C Water

**ABSFIL**

**ORDERING INFORMATION**

**CARTRIDGES**

① <b>SES</b>	② <b>001</b>	③ <b>C7</b>	④ <b>P</b>	⑤ <b>S</b>	⑥ <b>10</b>	⑦ <b>G</b>
<b>MICRON RATING</b>		<b>END STYLE</b>		<b>SEALS</b>	<b>LENGTH</b>	<b>OPTION</b>
P04 : 0.04µm P10 : 0.1µm P20 : 0.2µm P45 : 0.45µm P60 : 0.6µm P80 : 0.8µm 1P2 : 1.2µm		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	Blank : Standard F : UPW Flush G : UPW Flush & IT test

**FLUX SERIES**

① <b>F1</b>	② <b>SES</b>	③ <b>001</b>	④ <b>C2</b>	⑤ <b>P</b>	⑥ <b>S</b>	⑦ <b>10</b>	⑧ <b>F</b>								
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**CAPSULE SERIES**

① <b>C1</b>	② <b>SES</b>	③ <b>001</b>	④ <b>S6</b>	⑤ <b>P</b>	⑥ <b>S</b>	⑦ <b>1S</b>	⑧ <b>G</b>																																	
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