






ABSFON PH™

PES Membrane Filters for the Pharmaceuticals / Integral pre-filter layer



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 PH™ are sterile grade PES (polyethersulfone) membrane filters for the food, beverage and biopharmaceutical industries to meet and surpass the critical requirements.

ABFON PH™ utilizes advanced asymmetric PES membrane and integral prefilter layer to give improved throughput and high flow rate in viscosity and high contaminant fluid applications. Lower protein binding properties minimize product loss and allows longer filter life in biopharmaceutical fluids as well.

FEATURES & BENEFITS

- Asymmetric pore structure and thicker membrane provides high dust holding capacity and longer filter life
- 100% UPW flushed and integrity tested
- Fully validated
- Repeatedly integrity testable and steam sterilizable
- 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

- 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** : PES (Polyethersulfone)
- **Pre-Filter Media** : Polypropylene
- **Support Media** : Polypropylene
- **Inner Core** : Polypropylene
- **Outer Cage** : Polypropylene
- **End Caps** : Polypropylene
- **Shell** : Polypropylene
- **Insert** : STS 304
- **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

ABSFIL

Recommended Change Out Differential Pressure

2 bard (29.0 psid)

Particle Releasing

Meet the requirements of USP<788>
Particulate matter, ≤ 25particles/ml at 10um, ≤ 3particles/ml at 25um

Filtration Area

- Cartridge 68Ø : 0.55 m² / 10 inch
- CAP I : 0.10 m² / unit
- CAP II : 0.27 m² / unit

Nominal Pore Sizes

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

TOC (Total Organic Carbon)

Meet the requirements of the USP <643> TOC, <500ppb

Bacterial Retention

≥ LRV7
* Performed in accordance with ASTM F 838-15, ATCC 19146 Brevundimonas diminuta

Conductivity

Meet the requirements of the USP <645>
Conductivity, <1.3uS/cm

Food Contact Compliance

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR 177

NVR (Non-Volatile Residue)

Meet the requirements of the USP <661> NVR, <15mg

Biological Safety

All materials of construction are conform to the relevant requirements of USP <88> Class VI-121°C, plastics

Autoclave Sterilization

Can be repeatedly autoclaved up to 10cycles of 30minutes at 121°C

Endotoxin

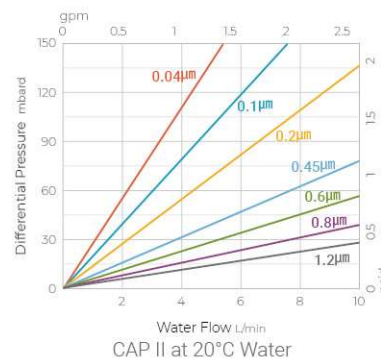
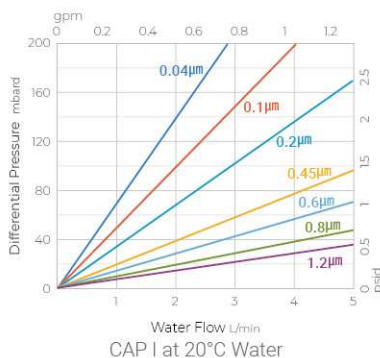
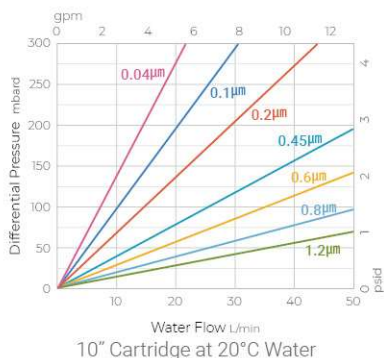
Meet the requirements of the USP <85> LAL Test, ≤ 0.25EU/ml

Pre-Flush

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

TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP



ORDERING INFORMATION

CARTRIDGES

①	②	③	④	⑤
SPH	001	C1	P	S
	MICRON RATING	END STYLE	SEALS	LENGTH
	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

CAPSULE SERIES

①	②	③	④	⑤	⑥
C1	SPH	001	S6	P	S
					IS
FILTER TYPE			END STYLE	SEALS	LENGTH
C1 : CAP I C2 : CAP II			TYPE CODE In/Out Connection Vent / Drain	X : NA S : Silicone E : EPDM V : Viton F : TEV	TYPE CODE CAP 1 1S : Standard CAP 2 2S : Standard
MICRON RATING			CAP 1 F3 1/8" Flaretek 1/8" NPT F9 3/8" Flaretek P6 1/4" Super Pillar 1/8" Luer CL CL NA		
P04 : 0.04µm P60 : 0.6µm P10 : 0.1µm P80 : 0.8µm P20 : 0.2µm 1P2 : 1.2µm P45 : 0.45µm			CAP 2 F9 3/8" Flaretek FE 1.5" Ferrule 1/4" Hose Barb		