



ABSMIR ES™

UHMWPE Membrane Filters for the Electronics



INDUSTRIES & APPLICATIONS

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

ABSMIR ES™ is an UHMWPE(Ultra High Molecular Weight Polyethylene) membrane filter designed for particulate matter removal from aggressive chemicals including acids, bases and solvents in the electronic industries.

ABSMIR ES™ utilizes a highly effective UHMWPE membrane, which has higher surface energy compare with PTFE membrane. These results in lower pressure drop and high flow rate in aqua based chemicals.

FEATURES & BENEFITS

- Reliable particle removal efficiency with lower differential pressure drops
- High flow rate
- 100% UPW flushed and integrity tested
- 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

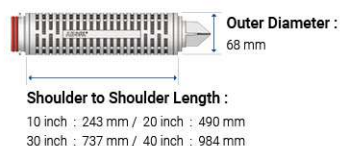
- Cartridge 68Ø**
- Length : 250, 500, 750, 1000 mm
 - Inner Diameter : 30 mm
 - Outer Diameter : 68 mm

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

Max. Operating Temperature

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

Recommended Change Out Differential Pressure

2 bard (29.0 psid)

Nominal Pore Sizes

0.05, 0.1, 0.2, 0.45, 1 µm

Pre-Flush

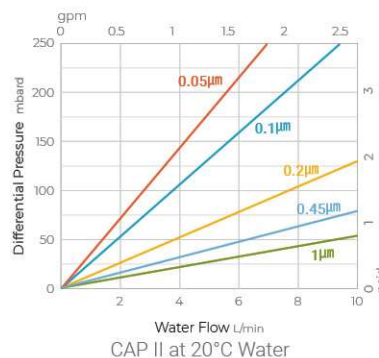
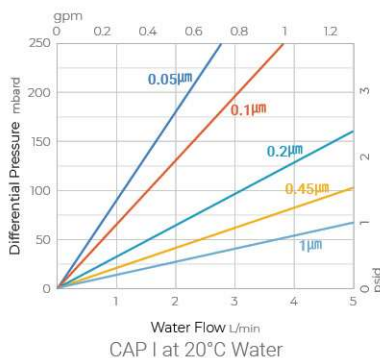
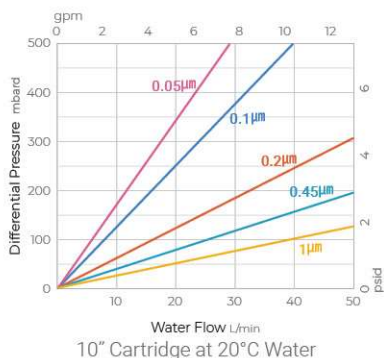
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

Filtration Area

- **Cartridge 68Ø** : 0.55 m² / 10 inch
- **CAP I** : 0.11 m² / unit
- **CAP II** : 0.28 m² / unit

TYPICAL CLEAN WATER FLOW

CARTRIDGE & CAP



ORDERING INFORMATION

CARTRIDGES

① MES	② 001	③ C1	④ P	⑤ S	⑥ 10
MICRON RATING		END STYLE	HARDWARE	SEALS	LENGTH
P05 : 0.05µm 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	P : PP E : HDPE	S : Silicone E : EPDM V : Viton F : TEV	10 : 250mm 20 : 500mm 1E : 254mm 2E : 508mm

CAPSULE SERIES

① C1	② MES	③ 001	④ S6	⑤ S	⑥ 1S																																										
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