



# ABSMIR CS™

Charged UHMWPE Membrane Filters for the Electronics / Single Layer



## INDUSTRIES & APPLICATIONS

-  **Electronics** : Process chemicals, Photoresists, Ultrapure water, Rinse solutions
-  **Chemicals** : Acids, Bases, Solvents

ABSMIR CS™ is a negatively charged UHMWPE(Ultra High Molecular Weight Polyethylene) filter designed for retention of both particulate matters and metal ions from aggressive chemicals including acids, bases, solvents and photoresists in the electronic industries.

ABSMIR ES™ provides reliable and consistent metal ion removal with extended filter service life.

ABSMIR ES™ is available in both cartridge and disposable filter formats. The encapsulated filters simplify installation and change out with minimizing downtime and contamination of the process.

## FEATURES & BENEFITS

- High surface area provides reliable and extended metallic ion contamination removal
- Capsule filter types simplify installation and change out with minimizing contamination of the process and downtime
- 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 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

### Ion Exchange Capacity

- **Cartridge 68Ø** : > 43meq / 10 inch
- **CAP I** : > 10meq / unit
- **CAP II** : > 22meq / unit

### Pre-Flush

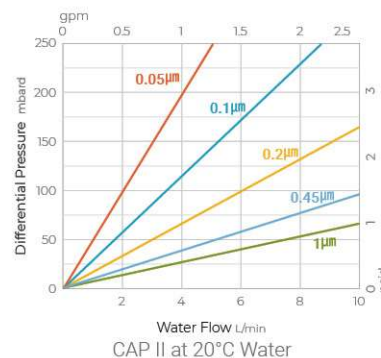
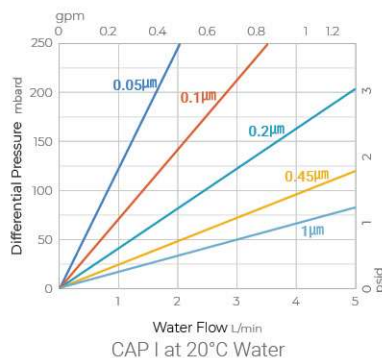
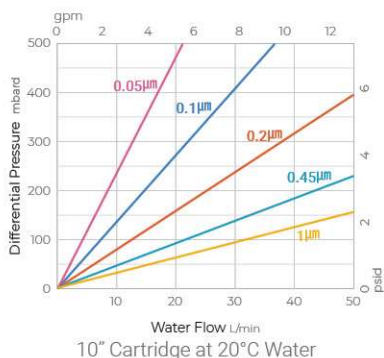
Pre-flushed with 18 MΩ UPW at 10LPM for 5min

### Filtration Area

- **Cartridge 68Ø** : 0.55 m<sup>2</sup> / 10 inch
- **CAP I** : 0.11 m<sup>2</sup> / unit
- **CAP II** : 0.28 m<sup>2</sup> / unit

## TYPICAL CLEAN WATER FLOW

### CARTRIDGE & CAP



## ORDERING INFORMATION

### CARTRIDGES

①	②	③	④	⑤	⑥
<b>MCS</b>	<b>001</b>	<b>C1</b>	<b>P</b>	<b>S</b>	<b>10</b>
<b>MICRON RATING</b>		<b>END STYLE</b>	<b>HARDWARE</b>	<b>SEALS</b>	<b>LENGTH</b>
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

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