



ESPOR HA PES Filter Cartridges

- Liquid Filters
- Polyethersulfone Membrane

ESPOR HA PES membrane cartridge filters are designed for general-purpose use in the various industry

ESPOR HA is made of Highly Asymmetric PES membrane that ensure;

- Superior service life
- High dirt holding capacity
- Lower pressure drop
- High flow rate

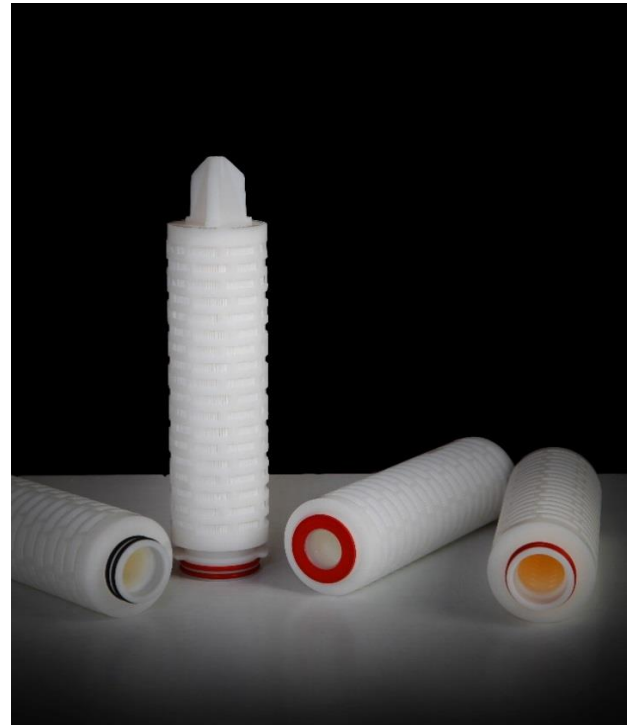
The PES membrane is inherently hydrophilic and there are no added surfactants or wetting agents, and the support layers and structure are all-polypropylene, the filter exhibits low extractables, broad chemical compatibility and good resistance to hydrolysis

Features and Benefits

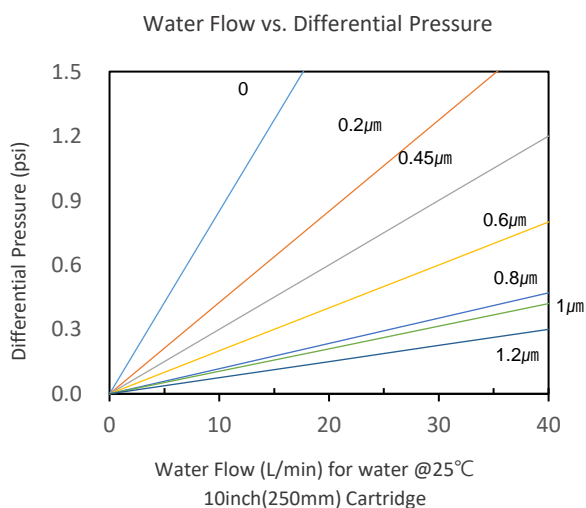
- High flow rate reduces processing time and operating cost.
- Broad chemical compatibility allows in most applicatons.
- Lower differential pressure provides small foot print.
- Optimized support layer with continuous filaments and bigger fiber diameter provides non-fiber release.
- Minimizing the cost.

Applications

- General use water filtration
- Chemical filtration
- DI water systems
- Water based ink
- Pre filter for RO system
- General industrial use



Performance Characteristics



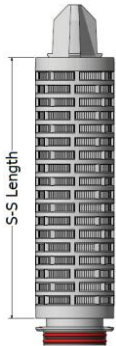
Specifications

Materials of Construction

- Main Media : Polyethersulfone
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Core: Polypropylene
- Outer Cage: Polypropylene
- End Caps: Polypropylene

Nominal Dimensions

- Outside Diameter : 71.5mm
- Inside Diameter of DOE : 27.0mm
- Inside Diameter of SOE : 31.0mm
- S-S Length of 10" Cartridge : 237.5mm
- S-S Length of 20" Cartridge : 485.0mm
- S-S Length of 30" Cartridge : 732.5mm
- S-S Length of 40" Cartridge : 980.0mm



Maximum Recommended Operating Temperature

70°C

Maximum Recommended Operating Differential Pressure

- 5.0 bard (72.5psid) @ 20°C
- 4.0 bard (58.0psid) @ 40°C
- 3.0 bard (43.5psid) @ 60°C

Recommended Change Out Differential Pressure

2.4 bard (35psid)

Effective Filtration Area

0.7sqm / 10" cartridge

Particle Removal Efficiency

>99.9% efficiency at 0.1, 0.2, 0.45, 0.6, 0.8, 1, 1.2µm.

* Performance determined by ASTM F-795-88, single-pass test using ISO standard dust in water at a flow rate of 10Liter/min per 10inch cartridge.

Flow factors

Per 10inch cartridge, at 1cP.

Rating (µm)	Flow factor (psid/gpm)
0.1	0.360
0.2	0.180
0.45	0.127
0.6	0.085
0.8	0.050
1	0.045
1.2	0.032

Ordering Information

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Nominal Length	Micron Rating	Endcaps	Seals	Special Options	
1 : 10" (250mm)	01 : 0.1µm	B : DOE	S : Silicone	F : Flushed with DIW & Silicone free	
2 : 20" (500mm)	02 : 0.2µm	C : 226/FIN	E : EPDM	G : Flushed with DIW	
3 : 30" (750mm)	04 : 0.45µm	D : 222/FIN	V : Viton	Blank : No options	
4 : 40" (1000mm)	06 : 0.6µm	E : 222/FLAT	P : PTFE		
	08 : 0.8µm	F : 226/FLAT	Encapsulated Silicone		
	10 : 1.0µm			*DIW : DI water	
	12 : 1.2µm				

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