

External pressure melt-blown (PP cotton) filter cartridge ERP Series

ERP series melt-blown filter cartridges are made of hot-melt entangled pure polypropylene microfibers without using any chemical adhesives. The fibers are randomly bonded in space to form a three-dimensional microporous structure, which integrates surface, depth and fine filtration. The deep filtration structure with gradient pores that are sparse on the outside and dense on the inside has strong dirt-holding capacity. According to different production processes, it can be divided into six appearances: smooth/needle- punched/rough type/orange peel/fine lines/grooved . It can be selected according to actual usage. Mainly it is used in particle interception, clarification filtration, and security filtration. It has good permeability and is a relatively economical pre-filtration filter cartridge.

Features

- Smooth surface: no fiber shedding, gradient aperture
- Grooved surface : grooves increase the effective filtration area, large flux, and high dirt holding capacity.
- The fine-grained type : has dense internal fibers and an interception rate of up to 95%.
- Orange peel type : is delicate and compact, with high mechanical strength, high pressure resistance and no shedding.
- Matte surface : tangled filament polypropylene fiber, no shedding, super high dirt holding capacity
- Acupuncture type : acupuncture groove technology, larger filter area and stronger dirt holding capacity

Technical Parameters

Length	5 " 10 " 20 " 40 "
Outer diameter	60mm, 62mm, 65mm
Inner diameter	28mm, 30mm
Filter material	Polypropylene (PP)
Cage	Polypropylene (PP)
End cap	DOE, 222/fin, 226/fin
Material of Sealing O-ring	EPDM、Red silicone、Buna-N
Removal Rating	0.5µm、1µm、3µm、5µm、10µm、20µm、50µm、100µm

Operating conditions

Maximum working temperature	polypropylene (PP) 60 °C
Maximum working pressure drop	Polypropylene (PP) 3bar
Recommended pressure drop for filter cartridge replacement	1.5 Bar, 20°C
Flow direction	From outside to inside

QC

- Compliant with FDA-21 CFR standard, can be used in food and beverage processing
- Strictly implement the ISO9001:2015 quality management system



Industrial water treatment
ROSecurity filtering system
Purification of water for various processes



Chemical filtration
Chemical raw material filtration
Organic solvent filtration



Industrial water filtration
Industrial water, electroplating filtration

Detail image



Structure diagram



Ordering Information

ERP	P	050	J1	05	A	S	Y
Series	Membrane material	Removal Rating	End cap type	Length	Structure	Sealing O-ring	Center rod
ERP	P=PP	050=0.5µm 100=1µm 300=3µm 500=5µm 1000=10µm 2000=20µm 10000=100µm	J1=222/fin J2=222/flat J3=226/fin J4=226/flat J5=DOE	05=5 " 10=10 " 20=20 " 30=30 " 40=40 "	A=Smooth type B= Grooved type C= Fine lines type D= Needle- punched Type E= Rough type F= Orange peel type	S=Silicon E=EPDM N=Buna-N	Y=PP skeleton N=no skeleton