

Alipore® DHF High-Throughput Hydrophilic PES Filter

Polyethersulfone (PES)

Bioburden Control

High Flowrate

Wide Compatibility



⊕ Product Introduction

Alioth Alipore® DHF Single-layer Cartridge Filter is a 0.2 μm single-layer polyethersulfone (PES) filter that can efficiently retain bacteria and particulate contaminants. It has wide chemical compatibility and low leaching level, thus suitable for the bioburden control and pre-filtration of various fluids. It can provide more effective protection at different stages of bioprocess, prolonging the service life of sterilizing filters and safeguarding other processing systems. This filter is produced in a controlled environment, and its manufacturing process conforms to ISO9001 quality system standards. Each cartridge filter undergoes an integrity testing during the process of manufacturing.

⊕ Key Features and Benefits

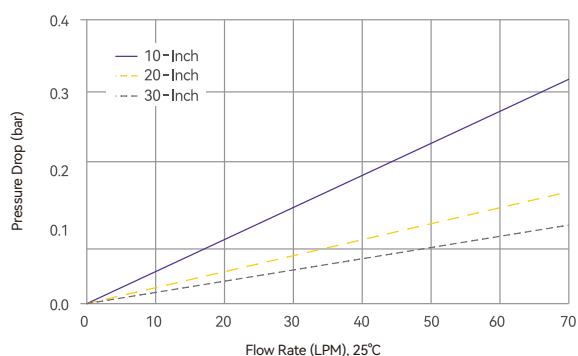
- High flow rate, high capacity
- Bioburden control
- Resistance to multiple steam sterilization
- Wide chemical compatibility

⊕ Typical Applications

- Terminal sterilization product
- Intermediate products filtration
- Pre-column protective filtration
- Pre-filtration before final sterile filtration, etc.

⊕ Typical Flow Characteristics

Water Flow Rate and Pressure Drop-Alipore® DHF 0.2 μm Cartridge Filters



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⊕ Product Specifications

Product Specifications		5 inch	10 inch	20 inch	30 inch
	Diameter	69 mm	69 mm	69 mm	69 mm
Materials of Construction	Maximum Length	155 mm	318 mm	566 mm	813 mm
	Membrane	Hydrophilic polyethersulfone (PES)			
	Supporting Layer	Polypropylene (PP)			
	O-rings	Silicone, Ethylene propylene diene monomer(EPDM), FEP/PFA encapsulated O-rings			
Integrity Testing	Core/Cage/End caps/Adaptor	Polypropylene (PP)			
	Bubble Point	≥3180 mbar (46 psi) (wetted with H ₂ O, 20°C, compressed air)			
	Maximum Differential Pressure	Forward: 5.0 bar (72.5 psi) @ 25°C/1.5 bar (21.75 psi) @ 80°C Reverse: 2.0 bar (29 psi) @ 25°C			
Working Characteristics	Sterilization Resistance	Steam-In-Place: 135°C, 30 min, 10 cycles Autoclave: 135°C, 30 min, 20 cycles			
	Effective Filtration Area	0.32 m ²	0.66 m ²	1.32 m ²	1.98 m ²
	Pore Size	0.2 µm			
	Bacterial Retention	TR>10 ⁶ B. <i>diminuta</i> (ATCC® 19146™)			
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88> Class VI plastic and USP<87>			
	Indirect Food Additive	All component materials meet the requirements of Indirect Food Additive cited in EU 1935/2004/EC and FDA 21 CFR 177-182			
	Cleanliness	Meets the requirements for a 'non-fiber releasing' filter defined in FDA 21 CFR 211.72 and 210.3 (b) (5) (6), and particulate matter meets the requirements of USP<788>			
	Endotoxin	Endotoxin<0.25 EU/mL by LAL test method, which complies with the requirements of USP<85>			
	TOC/Conductivity	TOC<0.5 mg/L, Conductivity<1.3 µS/cm			
	Manufacturing Integrity	100% integrity test passed			
	Manufacturing Environment	Manufactured in conformance with cGMP			

⊕ Ordering Information

Format	Membrane material	Membrane series	Pore size	Length	Cartridge adaptor
C=Cartridge	E=PES	D=D series	02=0.2 µm	5=5 inch 1=10 inch 2=20 inch 3=30 inch	7=226, Spearhead with fins 2=226, Flat end with fins(5 inch)
O-ring	Package				
S=Silicone T=EPDM B=FEP/PFA encapsulated O-rings	1=1/PK 3=3/PK (20&30 inch)				