

CFK series Cellulose Acetate membrane

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CA Pleated Filter Cartridges

The CFK series Cellulose Acetate (CA) Pleated Filter Cartridges are designed to the sterile filtration of vaccines, blood and plasma, and biopharmaceuticals with high product recovery. The low-adsorption membrane helps maintain the integrity of large, shear-sensitive proteins during processing.



Features

- Minimizes unspecific adsorption to support high yield and protect valuable proteins and excipients
- Excellent chemical compatibility
- Low extractables
- 100% integrity tested during manufacture

Applications

- Bioprocessed pharmaceuticals
- Sterilization filtration of biological product
- Coagulation factors, Albumin
- Bacterial, viral & mRNA-based vaccines

Dimension

Diameter	70 mm
Length	5", 10", 20", 30", 40"

Material of Constructions

Media	CelluloseAcetate
Support	PP
Cage/Core/End	PP
Connection Adaptor	SS Insert, PSU Insert
O-Ring	Silicone, EPDM, Viton®, Buna-N, Teflon® encapsulated

Quality

- Validated with B. diminuta (ATCC 191463) at $10^7/\text{CM}^2$ (0.22 μm)
- Each membrane filter element has been individually tested for integrity
- Individual element is tracked by serial number
- Manufactured according to ISO 9001:2015 certified quality management system
- Meets USP Biological Reactivity Test requirements of the current USP <88> for plastic class VI-121°C

Performance

Operating Conditions

Max Operating Temperature	80 °C
Max. Operating DP	5 bar @ 21 °C, 1bar @ 80 °C

Sterilization

Autoclave Sterilization	121 °C , 60 min
SIP	135 °C , 30 min, 30 cycles

Filtration Area

Ø 69mm	0.65 m ² / 10" Filter cartridges
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Extractables

10" Filter Cartridges	< 20 mg
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Effluent quality

- Non-fiber releasing
- Non-pyrogenic per USP Bacterial Endotoxins (<0.25EU/mL)
- Meets TOC and water conductivity per USP Purified Water, pH per USP Sterile Purified Water

Cartridge Integrity Test Specifications

Water wetted membrane

Pore size	Min. Bubble point
0.2µm	3.2 barg@22°C
0.45µm	2.1 barg@22°C
0.65µm	1.3 barg@22°C
0.8µm	1.1 barg@22°C
1.2µm	0.7 barg@22°C

Eg.=> CFKCA0020B050AD0PSS0

ORDERING INFORMATION											
Product Type	Membrane Type	Membrane pore size	Application	Size	Diameter	Endcap	Inner Core	Sealing Material	Connection Support	Revision	
CFK = Pleated Cartridge	CA = CA	Application B	B = Low Bio	05 = 5"	0A = OD:69 mm	D0 = DOE	P = Polypro	S = Silicone	S= Standard	0 = Rev.0	
		0020 = 0.2 µm	S = Ster Grade	10 = 10"		A1 = 020/Fin	S = SS Steel	E = EPDM	Y = SS reinforcement		
		0045 = 0.45 µm		20 = 20"		A2 = 020/Flat					
		0065 = 0.65 µm		30 = 30"		C1 = 120/Fin					
		0080 = 0.8 µm		40 = 40"		C2 = 120/Flat			P = PSU reinforcement		
		0120 =1.2 µm				E1 = 213/Fin					
		Application S				E2 = 213/Flat					
		0402 =0.45/0.2 µm				H1 = 222/Fin					
		0602 =0.65/0.2 µm				H2 = 222/Flat					
		0604 = 0.65/0.45 µm				G1 = 226/Fin					
		0804 = 0.8/0.45 µm				G2 = 226/Flat					
		1204 = 1.2/0.45 µm									