



OPTIPLEAT

ABSOLUTE PLEATED POLYPROPYLENE FILTER

Pharmaceutical Grade

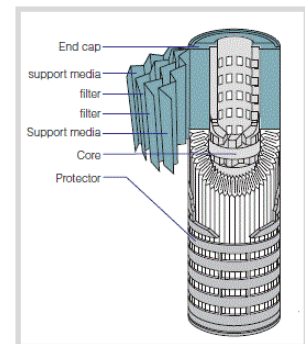
These filter cartridges are constructed with all polypropylene media and provide absolute and accurate efficiency for the retention of particles in most critical applications.

They combine high dirt holding capacity with a long service life and extremely high flow rates.



FEATURES AND BENEFITS

- Pleated surface provides superior flow rate and extended service life
- Nano fiber media provides absolute-rated filtration efficiency and assures excellent filtration performance
- All-polypropylene construction provides wide chemical compatibility
- Typical applications:
 - Gel Material
 - Blood Product
 - API
 - Cell Culture



BIOLOGICAL SAFETY ~ CLEANABILITY

- Meets USP <88>, for Class VI-121°C plastics
- Meets FDA 21 CFR Title 170-189 and European Regulation (EC) N° 1935/2004 for Food Contact
- Meets FDA 21 CFR 210.3(b)(6): no fibers release for filters

TECHNICAL SPECIFICATIONS

CARTRIDGE DIMENSIONS

- Outer diameter: 71mm / 2.79"
- Length: 5" - 127mm 10" - 254mm 20" - 508mm 30" - 762mm 40" - 1016mm

MATERIALS OF CONSTRUCTION

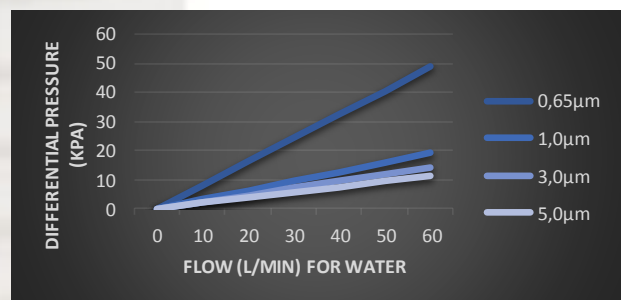
- Filter media: Multiple layers melt-blown polypropylene
- Support layers: Polypropylene
- Core/Cage/End caps: Polypropylene
- End cap insert (optional): 304 stainless steel or PBT
- Standard O' ring/gaskets: Silicone, EPDM or Viton

EFFECTIVE FILTRATION AREA (EFA)

- $\geq 0.6\text{m}^2 / 6.45\text{ft}^2 \times 2$ per 10" / 254mm

OPERATING CONDITIONS	
Maximum Operating Temperature	80°C
Maximum Differential Pressure	4bar / 58psi @ 21°C / 69.8°F 3bar / 30.45psi @ 80°C / 176°F
Steaming Sterilize (Autoclave)	121°C, 20 minutes at a max differential pressure of 0.5bar / 7psi
Hot Water Sterilize	85°C / 30 minutes

FLOW RATE CHARACTERISTICS				
Test criteria: single length 10" / 254mm cartridge, water at 20°C / 68°F				
FLOW RATE (L/Min)	DIFFERENTIAL PRESSURE (Kpa)			
	0.65µm	1.0µm	3.0µm	5.0µm
10	8.1	3.2	2.3	1.9
20	16.2	6.3	4.7	3.8
30	24.3	9.5	7.0	5.7
40	32.5	12.6	9.3	7.5
50	40.6	15.8	11.6	9.4
60	48.7	19.0	14.0	11.3



ORDERING INFORMATION

P	PP	A		-					
LENGTH	MICRON (*)	END CAP (inf)	END CAP (sup)	GASKETS	END CAP INSERT				
05 - 5"/127mm	0.30 - 0.3µm	A - DOE no Gaskets	A - DOE no Gaskets	S - Silicone	(Blank) - No insert				
10 - 10"/254mm	0.65 - 0.65µm	B - DOE with Gaskets	B - DOE with Gaskets	E - EPDM	P - PBT				
20 - 20"/508mm	0.80 - 0.8µm	C - 226	F - Flat	V - Viton	S - St. St.				
30 - 30"/762mm	001 - 1µm	D - 222	S - Spear						
40 - 40"/1016mm	003 - 3µm	E - 222 Sartorius (3 tabs)							
	005 - 5µm	J - Junior 214							
	010 - 10µm	K - Junior 216							
	020 - 20µm								

(*) Other sizes available