



FILTER CARTRIDGES

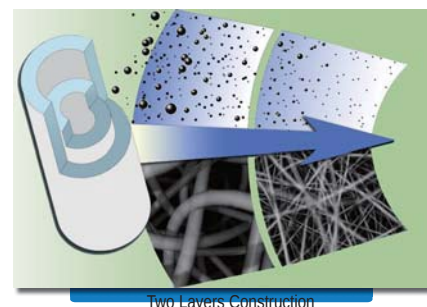
PP Melt Blown Filter Cartridges
Industrial Melt Blown Filter Cartridges
Absolute Rated Melt Blown Filter Cartridges

Melt Blown Filter Cartridges



A FE high performance PP Melt Blown Filter Cartridges are constructed from high-tech and precisely automatic controlled machines. The cartridges are 100% made of FDA grade polypropylene resin which is ideal for most general filtration requirements. The fiber matrix of the filter cartridge has been engineered to provide structural integrity throughout the long service life and stable pressure drop. Excellent character of non-fiber releasing provides optimum fluid purity and eliminates foaming.

- **100% polypropylene construction provides excellent chemical compatibility with a variety of process fluids and applications.**
- **Graded pore construction provides optimum particle retention and prevents media migration, ensuring consistent filtration performance.**
- **Free of binders, additives and lubricants.**
- **Low pressure drop, high dirt holding capacity and long service life.**
- **Manufactured by FDA grade polypropylene resin.**



Applications

Plating Solutions, Pre RO/DI, Chemicals, Petrochemical Process, Food & Beverage, Electronics

Specifications

Filter Media	Polypropylene
Micron Rating	1, 3, 5, 10, 25, 50, 75, 100 µm
Gasket/O-ring	Silicone, EPDM, Viton, Teflon encapsulated Viton
Inside Diameter	0.8"(20mm), 0.9"(23mm), 1"(26mm), 1.1"(28mm), 1.2"(30mm), 1.3"(33mm), 1.4"(36mm)
Outside Diameter	2.4"(61mm), 2.5"(63mm), 2.55"(65mm)

Operation Data

Maximum Operating Temperature : 60°C (140°F)

Maximum Differential Pressure : 3.0 bar at 27°C (43 psi at 80°F)

2.0 bar at 60°C (29 psi at 140°F)

1.0 bar at 60°C (14 psi at 140°F)

Recommended Change Out Differential Pressure : 1 bar (14 psi)

Ordering Information

Type	Diameter	Micron Rating	Filter Media	Nominal Length (inch/mm)	Gasket/O-ring Option	End Cap Option	Option
 PB Melt Blown Filter Cartridge	(blank) ID28mm, OD61mm	1 – 1 µm	P Polypropylene	05 - 127 06 - 152 063 - 160 098 - 248 10 - 250 101 - 254 195 - 495 198 - 500 20 - 508 292 - 743 295 - 750 30 - 762 39 - 990 393 - 1000 40 - 1016 50 - 1270 Other Customized Sizes	S -Silicone E -EPDM V -Viton W -Teflon encapsulated Viton	0 :Flat Gasket Double Open End 5:2-222 O-ring with Flat End 6:2-226 O-ring with Flat End 8:2-222 O-ring with Fin 9: 2-226 O-ring with Fin	C - PP Core W - Patterned Surface U - Grooved Surface CW - PP Core + Patterned Surface CU - PP Core + Grooved Surface EX - Extended PP Core
	6C ID28mm, OD63mm	3 – 3 µm					
	2C ID30mm, OD63mm	5 – 5 µm					
	6D ID28mm, OD65mm	10 – 10 µm					
	Other Customized Sizes	25 – 25 µm					
		50 – 50 µm					
		75 – 75 µm					
		100 – 100 µm					
PB Melt Blown Filter Cartridge		1 1µm	P Polypropylene	20 20"(508mm)	V Viton O-ring	5 2-222 O-ring with Flat End	C PP Core



Big Pleated High Flow Filter Cartridges

A FE Big Pleated High Flow Filter Cartridges utilize pleated depth media and result in exceptional flow capacity, low pressure drop and excellent retention efficiency. The considerate design of top handle makes manual operation quick and easy. Extended service life and less maintenance requirement make the filter cartridges as one of the most cost-saving solutions in big RO applications.

- **High surface area results in longer service life, lower pressure drop and higher flow capacity.**
- **The considerate design of top handle makes change out quick and easy.**
- **Extended service life and less maintenance requirement make the cartridges as one of the most cost-saving solutions.**
- **Available in various sizes and filter media to meet different needs and applications.**
- **Free of additives and binders due to advanced thermally welding construction.**

Applications

Pre RO/DI, Cooling Water, Chemicals, Petrochemical, Electronics, Food & Beverage, Petrochemical

Specifications

Type	Polypropylene Melt Blown	Polypropylene Fiber Pleated	Glass Fiber Pleated	Polyethersulfone Pleated
Micron Rating	1, 5, 10, 20, 30, 50, 100 µm	1, 5, 10, 20, 40, 70 µm	1, 5, 10, 20, 100µm	0.1, 0.2, 0.5, 1 µm
O-ring	Silicone, EPDM, Viton, Teflon encapsulated Viton			
Core	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene
Filter Support	Polypropylene	Polypropylene	Polyester	Polypropylene
End Cap	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene
Cage	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene	Glass Filled Polypropylene
Inside Diameter	3"(75mm)			
Outside Diameter	6"(152mm)			

Operation Data

	Polypropylene	Glass Fiber	Polyethersulfone
Maximum Operating Temperature	82°C (180°F)	121°C (250°F)	82°C (180°F)
Maximum Differential Pressure	3.4 bar at 25°C (50 psi at 77°F), 2.2 bar at 82°C (33 psi at 180°F)		
Recommended Change Out Differential Pressure	2.2 bar (33 psi)		

Ordering Information

Type	Series	Micron Rating	Filter Media	Nominal Length (inch)	End Cap	O-ring
PB Melt Blown Filter Cartridge	AT -ATO Series	01 – 0.1 µm	P -Polypropylene S -Polyethersulfone G -Glass Fiber	20 - 20" 40 - 40" 60 - 60" Other Customized Sizes	(blank) -Open End N - Sealed End	S -Silicone
		02 – 0.2 µm				E -EPDM
		0H – 0.5 µm				V -Viton
		1 – 1 µm				W -Teflon encapsulated Viton
		2 – 2 µm				
		5 – 5 µm				
GD PP Fiber Pleated Filter Cartridge		100 – 100 µm				
GD PP Fiber Pleated Filter Cartridge	AT ATO Series	5 5µm	P Polypropylene	20 20"	N Sealed End	E EPDM O-ring

String Wound Filter Cartridges

AFE String Wound Filter Cartridges are manufactured by computer modeling process which optimizes the filter cartridges geometrically and maximizes the use of cartridge surface area by the diamond-shaped depth filtration cones. Enhanced graded density design offers high flow rate, low pressure drop and improved dirt holding capacity. Several filter media are available in AFE's SW series, playing more effective and efficient solutions in different applications and processes.

- **Continuous strand winding process provides consistent performances of high dirt holding capacity, long service and high flow rate.**
- **Numerous filter media provide excellent chemical compatibility for different applications.**
- **No odor, no foaming and no media migration.**
- **Computer programming capability optimizes the filter cartridge geometrically and maximizes the use of surface area.**

Applications

Plating Solutions, Pre RO, Chemicals, Petrochemical Process, Food & Beverage, Electronics

Specifications

Filter Media	Polypropylene, Bleached Cotton, Glass Fiber
Micron Rating	1, 5, 10, 20, 30, 50, 75, 100 µm
Core Material	Polypropylene, SUS304, SUS316
Inside Diameter	1.1"(28mm), 1.2"(30mm)
Outside Diameter	2.4"(61mm), 2.5"(63mm), 4.5"(115mm)

Operation Data

Maximum Operating Temperature : Polypropylene : 90°C (200°F)
 Bleached Cotton with SUS Core : 150°C (300°F)
 Glass Fiber with SUS Core : 400°C (750°F)

Maximum Differential Pressure : 2.7 bar at 27°C (50 psi at 80°F)
 1.4 bar at 60°C (20 psi at 140°F)
 0.7 bar at 82°C (10 psi at 180°F)

Recommended Change Out Differential Pressure : 1 bar (14 psi)

Ordering Information

Type	Filter Media	Micron Rating	Core Material	Nominal Length (inch/mm)	Diameter	Option
SW String Wound Filter Cartridge	P - Polypropylene B - Bleached Cotton G - Glass Fiber	1 – 1 µm	P - Polypropylene 4 - SUS304 6 - SUS316	098 - 248	(blank) ID28mm, OD61mm OD63 ID28mm, OD63mm Other Customized Sizes	EX - Extended Core
		5 – 5 µm		10 - 250		
		10 – 10 µm		101 - 254		
		20 – 20 µm		198 - 500		
		30 – 30 µm		20 - 508		
		50 – 50 µm		295 - 750		
		75 – 75 µm		30 - 762		
		100 – 100 µm		40 - 1016		
				Other Customized Sizes		
SW String Wound Filter Cartridge	P Polypropylene	1 1µm	P PP Core	20 20"(508mm)		



Big Filter Cartridges

AFE Big Filter Cartridges are featured with bigger outer diameter, exhibiting large filtration area and supplying longer service life. These big filter cartridges are particularly recommended as cost economic solutions for processes requiring high flow capacity and cost effective demand. Available in various filter media and micron ratings, AFE big filter cartridges are suitable for a wide range of applications.

- **Available in a variety of filter media and micron ratings.**
- **Cost effective solutions with longer service life and fewer change outs.**
- **Advantages with high flow rate, low pressure drop and high dirt loading capacity.**
- **Applicable to commercial filter housings with great convenience.**

Applications

Pre RO/DI, Household Water Filtration, Lab Facilities, Chemicals, Waste Water Treatment, Cooling Water, Bottle Water, Food & Beverage, Swimming Pool, Electronics

Ordering Information

Melt Blown Big Filter Cartridges					
Type	Series	Micron Rating	Filter Media	Nominal Length (inch)	
PB Melt Blown	B - Big Filter	1 – 1 µm 5 – 5 µm 100 – 100 µm	P - Polypropylene	10 - 10" 20 - 20" Other Customized Sizes	
PB Melt Blown	B Big Filter	1 1µm	P Polypropylene	10 10"	
String Wound Big Filter Cartridges					
Type	Filter Media	Series	Micron Rating	Core	Nominal Length (inch)
SW String Wound	P - Polypropylene B - Bleached Cotton G - Glass Fiber	B - Big Filter	1 – 1 µm 5 – 5 µm 100 – 100 µm	P - Polypropylene 4 - SUS304 6 - SUS316	10 - 10" 20 - 20" Other Customized Sizes
SW String Wound	P Polypropylene	B Big Filter	5 5µm	P Polypropylene	10 10"
High Flow Rated Big Filter Cartridges					
Type	Series	Micron Rating	Filter Media	Nominal Length (inch)	Gasket Option
HP High Flow Rated Pleated Filter Cartridge	B - Big Filter	1 – 1 µm 5 – 5 µm 100 – 100 µm	P - Polypropylene E - Polyester 4 - SUS304 6 - SUS316	10 - 10" 20 - 20" Other Customized Sizes	E - EPDM V - Viton
HP High Flow Rated Pleated Filter Cartridge	B Big Filter	5 5µm	P Polypropylene	10 10"	E EPDM Gasket

Melt Blown Big Filter Cartridges

Filter Media	Polypropylene		
Micron Rating	1, 5, 10, 25, 50, 75, 100 µm		
Inside Diameter	1.1"(28mm)		
Outside Diameter	4.5"(115mm)		
Maximum Operating Temperature	60°C (140°F)		
Maximum Differential Pressure	3 bar at 27°C (43 psi at 80°F)		
Recommended Change Out Differential Pressure	1 bar (14.5 psi)		

String Wound Big Filter Cartridges

Filter Media	Polypropylene, Bleached Cotton, Glass Fiber		
Micron Rating	1, 5, 10, 20, 30, 50, 75, 100 µm		
Core	Polypropylene, SUS304, SUS316		
Inside Diameter	1.1"(28mm)		
Outside Diameter	4.5"(115mm)		
	Polypropylene	Bleached Cotto	Glass Fiber
Maximum Operating Temperature	90°C (200°F)	150°C (300°F)	400°C (750°F)
Maximum Differential Pressure	2.7 bar at 27°C (50 psi at 80°F)		
Recommended Change Out Differential Pressure	1 bar (14.5 psi)		

High Flow Rated Pleated Big Filter Cartridges

Filter Media	Polyester, Polypropylene, Stainless Steel		
Micron Rating	1, 5, 10, 20, 30, 50, 75, 100 µm		
Core	Polypropylene, SUS304, SUS316		
End Cap	Polyurethane, SUS304, SUS316		
Inside Diameter	1.1"(28mm)		
Outside Diameter	4.5"(115mm)		
	Polyester	Polypropylen	Stainless Steel
Maximum Operating Temperature	75°C (157°F)	75°C (157°F)	677°C (1250°F)
Maximum Differential Pressure	4.8 bar at 20°C (70 psi at 68°F)		
Recommended Change Out Differential Pressure	2.4 bar (35 psi)		

Activated Carbon Big Filter Cartridges

Filter Media	Activated Carbon Impregnated Cellulose, Granular Carbon PP String Wound, Activated Carbon Block		
Micron Rating	5 µm		
Core	Polypropylene		
End Cap	Polyurethane		
Inside Diameter	1.1"(28mm)		
Outside Diameter	4.5"(115mm)		
	Activated Carbon Impregnated Cellulose	Granular Carbon PP String Wound	Activated Carbon Block
Maximum Operating Temperature	52°C (125°F)	70°C (158°F)	80°C (176°F)
Maximum Differential Pressure	4.5bar at 25°C (65psi at 77°F)	4.5bar at 25°C (65psi at 77°F)	6.9bar at 25°C (100psi at 77°F)
Recommended Change Out Differential Pressure	2.1bar (31psi)	1bar (14.5psi)	2.1bar (31psi)

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