

# aspire<sup>®</sup> PureClear

## Precision Wound Filter Cartridges

PureClear Series filter cartridges deliver reliable and consistent filtration of fluids in a wide range of applications. The continuously graded pore structure of the filter creates a network of tapered passages that capture contaminants throughout the media. The true depth filtration provided by the filter prevents the cartridge from blinding off when filtering fluids containing deformable particles or gels.

PureClear Series filter cartridges are an excellent choice as a pre-filter to protect more expensive final filters. The cartridge's mechanical strength enables it to be used in demanding applications such as the filtration of well completion fluids or lubricating oils.

PureClear Series cartridges are available in various materials of construction offering excellent chemical compatibility with a variety of fluids and temperature ranges. The extended core option eliminates the need for expensive housing hardware and allows for quick and easy cartridge change-out. PureClear Series cartridges are available in a range of configurations to fit most commercially available filter housings.



### Benefits

- A broad range of media and center core options provide excellent compatibility with a variety of fluids.
- True depth filtration provides high dirt holding capacity and is ideal for removing deformable particles or gels from process fluids.
- Polypropylene, Cotton, and other media available with FDA CFR Title 21 listed components suitable for food and beverage applications.
- Available in removal ratings from 0.5 to 200  $\mu\text{m}$ .
- Continuous length cartridges up to 40" minimize change-out times and eliminate the need for additional housing hardware.
- Large (4.5") diameter 10" and 20" length cartridges available for use in Plymouth Big Blue<sup>®</sup> Series filter housings.
- Extended core option eliminates the need for expensive housing center posts.

### Applications

- Animal & Vegetable Oils
- Municipal & Potable Water Systems
- Metal Finish / Plating Solutions
- Aqueous Solutions
- Petroleum Oil and Lubes
- Pre-Polymer Filtration
- Pulp and Paper
- Paints and Coatings
- Dilute Acids and Alkalis

For more information,  
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# CLARCOR

Industrial Air

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ASPIRE090 (2/20/17)

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## Precision Wound Filter Cartridges

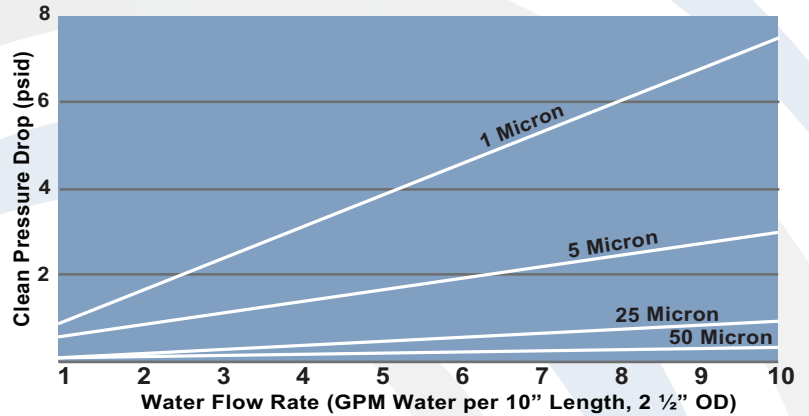
### Materials of Construction

Filter Media	FDA Polypropylene, Polypropylene fibrillated, Industrial Polypropylene, Bleached Cotton, Natural Cotton, FDA Cotton, Rayon, Nylon, Polyester, Acrylic, Fiberglass
Center Cores	Polypropylene, Tinned Steel, 304 Stainless Steel, 316 Stainless Steel
Extended Core Option	Polypropylene extended cores available for quick and easy cartridge change-out
Core Cover Options	Core covers available to control fiber migration
End Treatment Option	Various end treatments and O-ring sealing options are available to fit standard commercial filter housings

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### Pressure Drop vs. Flow Rate

Polypropylene, Polyester & Nylon Media



### Performance Specifications

Retention Rating	0.5, 1, 3, 5, 10, 15, 20, 25, 30, 50, 75, 100, 150, 200µm
Maximum Pressure	60 psid (4 bar) @ 70°F (21°C)
Maximum Operating Temperature	See Maximum Temperature Rating Chart
Recommended Change-out Differential Pressure	30 psid (2 bar) @ 70° F (21° C)

### Dimensions (nominal)

Outside Diameter in (cm)	2 3/8 (6.1) (Standard), 2.5 (6.4), 4.5 (11.5)
Inside Diameter in (cm)	1.0 (2.5)
Lengths in (cm)	9.8 (24.8), 9.9 (20.1), 10 (25.4), 19.5 (49.5), 20 (50.8), 29.3 (74.3), 29.5 (75.0), 30 (76.2), 39 (99.1), 40 (101.6)
Efficiency	Micron ratings from 0.5 to 3 at 80% nominal Micron ratings from 5 to 200 at 90% nominal

### Maximum Temperature Rating

Center Core	FDA Polypropylene	Polypropylene	Fibrillated Polypropylene	Bleached Cotton	Natural Cotton	Rayon	Nylon	Acrylic	Polyester
Metal F°(C°)	180 (82.2)	180 (82.2)	180 (82.2)	250 (121.1)	250 (121.1)	275 (135)	275 (135)	250 (121.1)	300 (148.9)
Polypropylene F°(C°)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)	180 (82.2)

### Cartridge Ordering Information

Micro Ratings	Media	Nominal Length	Core	Cartridge Style	Gasket or O-Ring Material	Options
5	P	20	P	222F	S	F
0.5, 1, 3, 5,	P = Polypropylene*	912 = 9.75"	P = Polypropylene	Blank = no end treatment	S = Silicone	F = FDA Approved Fiber
10, 15, 20,	PF = Fibrillated Polypropylene	914 = 9.87"	T = Tin	C = Core Cover	V = Viton	BB = 4 1/2" Outer Diameter
25, 30, 50,	C = Bleached Cotton*	10 = 10"	A = 304 Stainless Steel	G = DOE Polyethylene Foam Gaskets	B = Buna N	-2.5 = 2.5" Outer Diameter
75, 100,	CU = Natural Cotton	198 = 19.5"	S = 316 Stainless Steel	X = Extended Polypropylene Core	E = EPDM	
150, 200	R = Rayon**	20 = 20"		222F = 222 O-ring/Flat		
	N = Nylon	294 = 29.25"		222S = 222 O-ring/Spear		
	K = Polyester**	298 = 29.5"		226F = 226 O-ring/Flat		
	A = Acrylic	30 = 30"		226S = 226 O-ring/Spear		
	G = Fiberglass	39 = 39"				
	* = Available in FDA	40 = 40"				
	** = Only FDA					

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