

# PURECLEAR™

## Precision Wound Filter Cartridges



### Description

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.
- Available in removal ratings from 0.5 to 300 µm.
- 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.
- 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® Series filter housings.
- Extended core option eliminates the need for expensive housing center posts.

### Applications

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

## Performance Specifications

<b>Micron Ratings</b>	0.5, 1, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 150, 200, 300 µm	
<b>Maximum Temperature Ratings</b>	See Maximum Temperature Rating Chart	
<b>Maximum Operating Pressure</b>	50 psid (3.4 bar) @ 70° F (21° C)	
<b>Recommended Change-out Differential Pressure:</b>	35 psid (2.4 bar) @ 70° F (21° C)	
<b>Outside Diameter (nominal)</b>	Standard	2 3/8" (6.08 cm)
	Optional	4.5" (11.52 cm)
<b>Inside Diameter (nominal)</b>	1" (2.5 cm)	
<b>Lengths (nominal)</b>	9.75, 9.875, 10, 12.5, 19.5, 19.75, 20, 29.25, 30, 39, 40 in. 24.8, 25.1, 25.4, 31.8, 49.5, 50.2 50.8, 74.9, 76.2, 99.1, 101.6 cm	

## Materials of Construction

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

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## Maximum Temperature Rating

Center Core	FDA Polypropylene	Polypropylene	Fibrillated Polypropylene	FDA Cotton	Industrial Cotton
Metal	200° F	200° F	200° F	250° F	250° F
Polypropylene	140° F	140° F	140° F	140° F	140° F

## Cartridge Ordering Information

Micron Ratings	Filter Media	Length (Inches)	Core	Options
5	P	10	P	F
0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30, 40, 50, 75, 100, 150, 200, 300	Polypropylene = P Polypropylene (Fibrillated) = PF Cotton Combo = C	9.75" = 912 9.875" = 914 10" = 10 19.5" = 198 19.75" = 1912 20" = 20 29.25" = 294 30" = 30 39" = 39 40" = 40	Polypropylene = P Tin = T 304 Stainless Steel = A 316 Stainless Steel = S	FDA Approved Fiber = F Core Cover = C Extended Core = X 4 1/2" Outer Diameter = BB  Other end treatments available on request.

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