

# Poly-Ray Pleated Filter Cartridge with PP Micro-fiber media



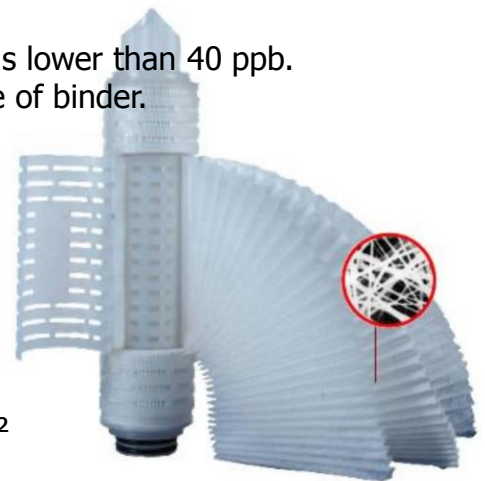
Constructed of melt-blown polypropylene fiber media, Poly-Ray pleated filter combine exceptional solids holding capacities with precise micron ratings than depth filters. The double sheets of melt-blown media are layered to provide absolute particle retention, high solid loading and long service life. Poly-Ray filter are also designed for membrane's pre-filtration.

## Features & Benefits

- Double-layers structure, absolute efficiency filter. (Absolute rating 99.9% ;  $\beta$  rate=1000)
- Filtration area more than 0.5m<sup>2</sup>, low pressure drop, high capacity of dust and long service life.
- 100% PP for compatibility with a wide range of process fluids.
- Manufactured in clean room, highly clean cartridge.
- Pre-flush with 18 Megohm-cm DI water, TOC content is lower than 40 ppb.
- End caps and connectors sealed by thermal bond, free of binder.
- Certificated by USP XXXIII and FDA CFR Title 21.
- End configurations to fit all standard housings.

## Operation conditions

- Maximum operating pressure drop :
  - 95°C : 1.4 kg/cm<sup>2</sup>
  - 60°C : 2.8 kg/cm<sup>2</sup>
  - 20°C : 4.9 kg/cm<sup>2</sup>
- Recommended replaceable pressure drop : 2.5 kg/cm<sup>2</sup>
- Maximum operating temperature : 95°C
- Sterilization : 121°C, 30 min 10times



## Applications for product

- Pre-filter of membrane cartridge.
- Filtration of cleaning process in CD-ROM, DVD-ROM manufacture.
- Pre-filter of DI water filtration.
- Filtration of cooling water system (PCW).
- Clarification of beer or beverage manufacture.
- Filtration of medium & low viscosity fluids of chemical.

## Product specifications

Pore size : Absolute Rating 0.2, 0.45, 1, 5, 10, 20micron  
Materials of construction : 100% melt-blown micro-denier PP fiber  
Support : PP fiber  
End Cap & Core : High Strength PP  
O-ring Material : EPDM, Buna N, Silicone, Viton, Viton encapsulated PFA  
Filtration Area : >0.5m<sup>2</sup>  
Length : 10", 20", 30", 40"  
Inner Diameter : 28 mm  
Outer Diameter : 69 mm

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## PP Micro-fiber media

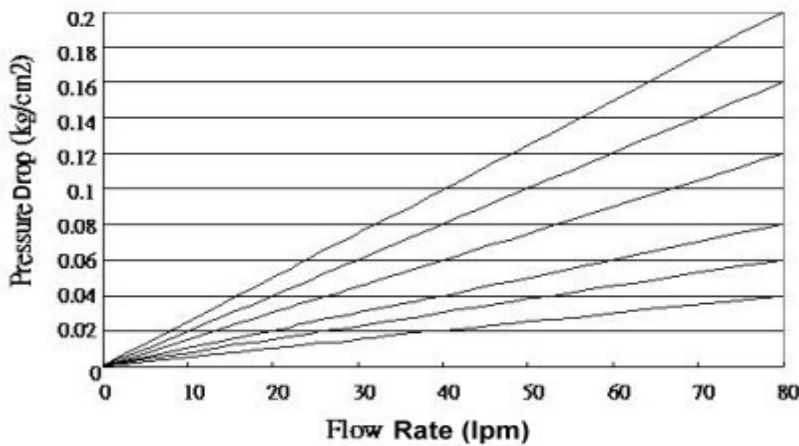


### Efficiency of filtration

Spec.	Removal Rating(%)						
	0.2micron	0.3micron	0.5micron	1.0micron	5.0micron	10micron	20micron
AR0020	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0045	62.3	71.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0100	30.2	67.1	73.9	>99.9	>99.9	>99.9	>99.9
AR0500	-----	-----	46.8	87.3	>99.9	>99.9	>99.9
AR1000	-----	-----	-----	53.9	81.5	>99.9	>99.9
AR2000	-----	-----	-----	-----	59.3	86.9	>99.9

\*Multi-pass test

### Initial pressure drop



### Suggested equivalent products

- Millipore      Polygard-CN
- Pall            HDC II Filter
- Pall            Ultipleat Profile
- PTI             Poly Flow-G
- CUNO          Betafine D
- CUNO          Polypro
- Filterite        Poly-Fine II

### Ordering Information

