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Chem-Fine™ Melt Blown Halar¹ Series Filter Cartridges

- Halar media offers increased chemical and thermal resistance
- Great durability and mechanical strength
- Extremely pure filtration media
- Retention ratings of 5 and 10 micron (µm)
- High effective surface area per 10" (25.4 cm) cartridge
- Very low initial pressure drop
- Free of resins, binders, and adhesives
- Media very resistant to ozone

Performance Specifications

Filter Grades:

5, 10 µm

Maximum Forward Differential Pressure:

70 psid (4.8 bard) @ 120°F (49°C)

50 psid (3.4 bard) @ 180°F (82°C)

Recommended Change-out Differential Pressure²:

35 psid (2.4 bard)

Toxicity:

All components (polypropylene version only) meet the specifications for biological safety as per the **USP** for Class VI-121°C plastics (gaskets/O-rings excluded).

Rinse-Up:

Rinse-up to 18 Megohm-cm with a minimum of throughput.

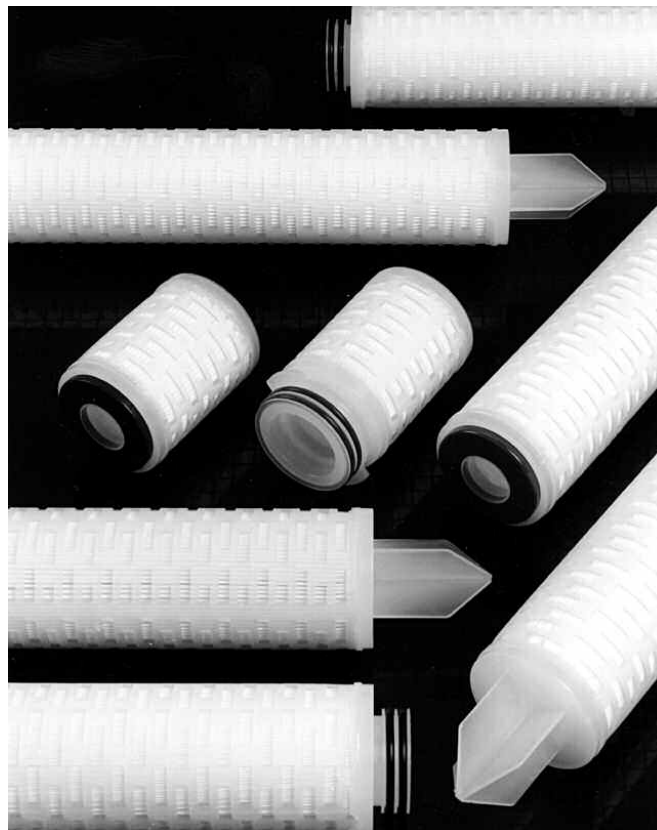
Product Specifications

Materials of Construction:

Filter Media:	High Purity Melt Blown ECTFE
Hardware:	Polypropylene Polyester (DOE, M3, or M8 only)
Support Material:	Polyester upstream/Halar downstream (standard)
Gaskets/O-rings:	Silicone Elastomer, Nitrile, Nordel ³ , Fluorocarbon Elastomer, White
Silicone,	FEP, White Nitrile

Dimensions (nominal):

Outside Diameter:	2 3/8" (6.4 cm)
Lengths:	4" (10.2 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (102 cm)



ECTFE exhibits outstanding chemical and temperature resistance compared to melt blown polypropylene or microfiberglass filter media at a substantially lower cost than commonly used fluoropolymer membranes. It is particularly resistant to attack by ozone, one of the most powerful oxidants known. The advanced design, innovative features, and stringent ISO 9001 quality control make the Chem-Fine Series cartridge truly exceptional for a range of critical processing applications.

- Electroless nickel plating solutions
- High purity chemical filtration
- Ultrapure water systems using ozone
- Hot ultrapure water systems

¹ Registered trademark of Ausimont USA, Inc.

² Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

³ Registered trademark of the Dow Chemical Company.

Liquid Retention Ratings (μm)

Cartridge Designation	90% Efficiency	>99.9% Efficiency
CFT 5	5	10
CFT 10	10	15

Liquid removal ratings are based on Pall's Dynamic Efficiency test protocol. This single pass, destructive challenge test is based on ASTM F795 test procedures for determining the performance of a filter.

Part Numbers/Ordering Information

CFT ■ - ● ▶ ▽ ◆ - ▼ (e.g., CFT 5-10HUS-M3)

Code	Filter Grades
5	5 μm
10	10 μm

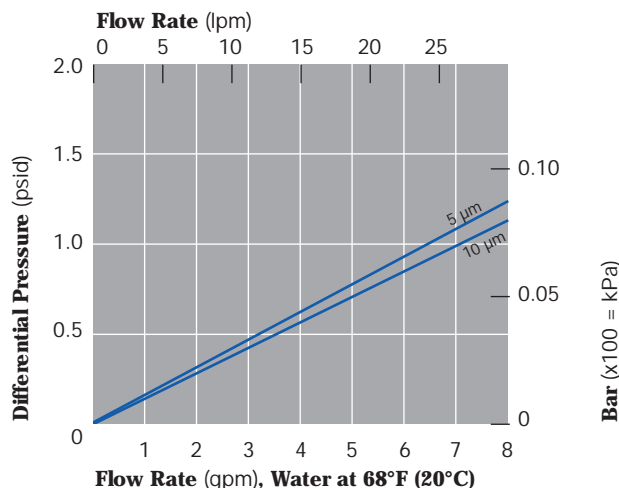
Code	Cartridge Lengths (nominal)
4	4"
10	10"
20	20"
30	30"
40	40"

Code	Support Material
Blank	Polyester upstream/Halar downstream
H	Halar upstream & downstream

Code	Hardware
E	Polyester (DOE, M3, or M8 only)
U	Polypropylene

Code	Gasket/O-ring Materials
S	Silicone (standard O-rings)
N	Nitrile (standard gaskets)
M	White Silicone
W	White Nitrile (gaskets)
V	Fluorocarbon Elastomer
E	Nordel
T	FEP Encapsulated Silicone (O-rings)
T	Expanded PTFE (gaskets)
X	No O-ring required (M2 style only)

Typical Flow vs. Differential Pressure for Application Sizing



Flow rate is per 10" (25.4 cm) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Code End Configurations

Code	End Configurations
Blank	DOE with elastomer gasket seals & end caps
1X	DOE, 1" (2.54 cm) extended core
M2	SOE flat closed end, fits housings with 020 O-ring post
M3	SOE flat closed end, external 222 O-rings (retrofits other manufacturers' Code 0) ⁴
M3H	SOE large diameter closed end, external 222 O-rings
M5	DOE, internal 120 O-rings (retrofits 213 O-ring style) ⁴
M6	SOE flat closed end, external 226 O-rings (retrofits other manufacturers' Code 6) ⁴
M7	SOE fin end, external 226 O-rings (retrofits other manufacturers' Code 7) ⁴
M8	SOE fin end, external 222 O-rings (retrofits other manufacturers' Code 5) ⁴
M10	DOE, internal O-rings (fits other manufacturers' housings) ⁴
M11	SOE flat closed end, internal 120 O-ring (retrofits other manufacturers' X style) ⁴
M20	SOE, internal O-ring (same as M10), closed end with deep recess

⁴ For details, contact Pall Corporation.

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