

Poly-Fine® II Filter Cartridges

Particle Filtration For Liquids

Poly-Fine II cartridges are a proven filter solution for consistent and effective particle removal in liquid food and beverage applications.

Description

The Poly-Fine II element is a high area, pleated all-polypropylene depth filter frequently used in a wide variety of applications for particle removal. It is a cost-effective choice for final particle removal, or for pre-filtration, including reliable protection of final membrane filters.

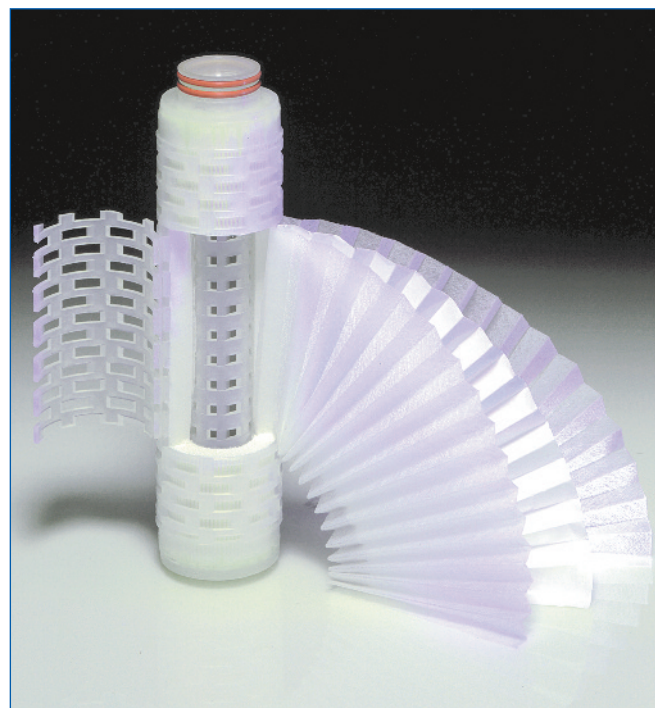
Poly-Fine II filter media is the result of the latest in Pall proprietary technology and application expertise. Poly-Fine II media features a highly consistent pore structure with narrow pore size distribution, making it ideally suited for the capture of non-deformable contaminants, particularly those characterized by relatively narrow particle distribution.

Features and Benefits

Features	Benefits
Proprietary melt blown, pleated media with high dirt holding capacity	<ul style="list-style-type: none"> • Long service life
All polypropylene construction, without adhesives, resins, or binders	<ul style="list-style-type: none"> • Consistent particulate retention and protection of final liquid membrane filters • Cost-effective filtration
Multiple cartridge styles and adaptor options	<ul style="list-style-type: none"> • Broad chemical compatibility, suitable for use in a variety of fluids • Flexible application into sanitary and industrial housings

Quality

- Cartridges produced in a controlled environment
- Manufactured within a Quality Management System certified to ISO 9001:2008.



Poly-Fine II Filter Cartridges

Materials of Construction

Component	Description
Filter Medium	Polypropylene
Cage, Core, Find End and End Cap	Polypropylene
SOE Style Cartridges only Adaptor	Polypropylene
O-ring Seal	Silicone Elastomer Ethylene Propylene Rubber
DOE Style Cartridges only Gasket	Ethylene Propylene Rubber

Food Contact Compliance

Please refer to the Pall website www.pall.com/foodandbev for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Technical Information

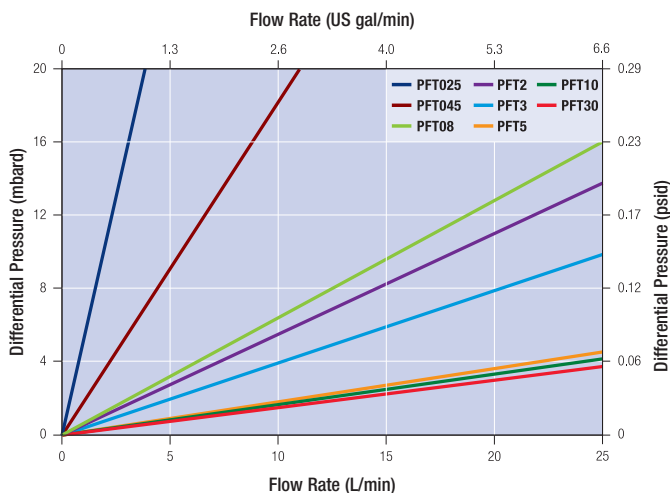
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

Operating Characteristics in Compatible Fluids¹

Maximum Differential Pressure ²	Operating Temperature
4.8 bard (70 psid) (forward)	20 °C (68 °F)
2.8 bard (40 psid) (forward)	65 °C (150 °F)

¹ Fluids which do not swell, soften or adversely affect any of the filter components
² Recommended change-out differential pressure is 2.4 bard (35 psid), provided the maximum differential pressure (based on temperature) is not exceeded.

Typical Flow Rates³



³ Typical initial clean delta p per 254 mm (10 inch) cartridge, water at 20° C (68° F). For liquids with viscosity greater than 1cP, multiply the delta p by the viscosity.

Sterilization and Sanitization

Multiple autoclaving for 30 minutes at 1 bar (15 psig) steam (121 °C /250 °F) under no end load conditions, up to 10 cycles. In-line steam sterilization is not recommended. May be in-line sanitized with hot water at 82 °C (180 °F) for 1 hour.

Ordering Information

This information is a guide to the part numbering structure and possible options. For availability of specific options please contact Pall. Refer to Pall for housing details.

Part Number: PFT

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 U

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 W 480

Example Part Number: **PFT02530USM7W480**
 See bold reference code in tables.

Table 1: Removal Rating⁴

Code	Description	
	90% Efficiency (Beta 10)	>99.9% Efficiency (Beta 1000)
025	0.25 µm	1 µm
045	0.45 µm	1.2 µm
08	0.8 µm	2.5 µm
2	2 µm	5 µm
3	3 µm	7 µm
5	5 µm	12 µm
10	10 µm	15 µm
30	30 µm	40 µm

Table 2: Nominal Length

Code	Description
DOE Style only:	
975	248 mm (9.75")
10	254 mm (10")
195	495 mm (19.5")
20	508 mm (20")
2925	743 mm (29.25")
295	749 mm (29.5")
30	762 mm (30")
39	991 mm (39")
40	1016 mm (40")
SOE Style only⁵:	
10	254 mm (10")
20	508 mm (20")
30	762 mm (30")
40	1016 mm (40")

⁴ Poly-Fine II filter cartridge liquid retention ratings are determined by a single pass test based on ASTM F-795 (see Pall Technical Bulletin 1903-4T). Removal efficiencies are shown at the stated rating in compatible fluids.

⁵ Please contact Pall for specific dimensions of SI option cartridges.

Table 3: O-Ring / Gasket Seal Material

Code	Description
S	Silicone Elastomer ⁶
E	Ethylene Propylene Rubber

⁶ for M3, M7, M8 options only

Table 4: Adaptor

Code	Description
Blank	DOE – with open end caps/gasket
M3	SOE – single open end with flat closed end and external 222 O-rings
M7	SOE – single open end with fin end, 2 locking tabs, and external 226 O-rings
M8	SOE – single open end with fin end and external 222 O-rings
SI	SOE – with open end cap/gasket and integral stainless steel spring on flat closed end



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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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