

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.

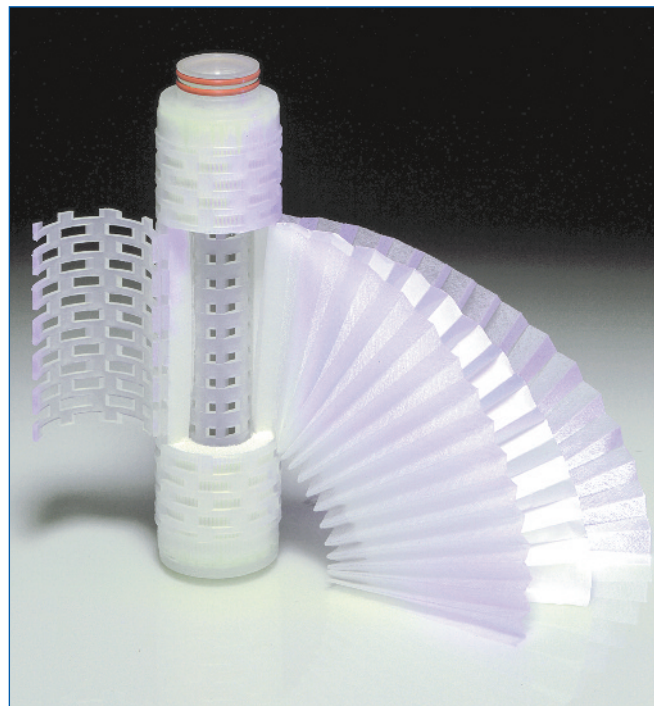
Poly-Fine II filter media is the result of the latest in Pall proprietary technology and application expertise. Poly-Fine II media features a highly consistent pore structure with narrow pore size distribution, making it ideally suited for the capture of non-deformable contaminants, particularly those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

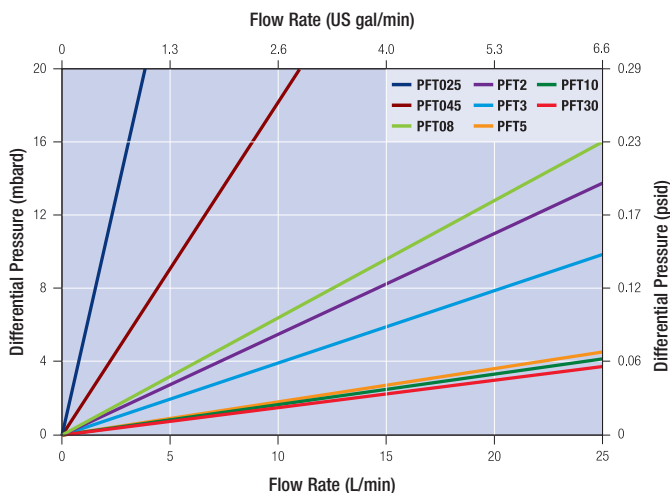
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

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

| |
|--|
| |
|--|

| |
|--|
| |
|--|

 U

| |
|--|
| |
|--|

| |
|--|
| |
|--|

 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 |



Pall Food and Beverage

New York - USA

+1 516 484 3600 telephone
 +1 866 905 7255 toll free
 foodandbeverage@pall.com

Visit us on the Web at www.pall.com/foodandbev

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

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.

Because of developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

© Copyright 2015, Pall Corporation. Pall, and Poly Fine are trademarks of Pall Corporation. ® Indicates a trademark registered in the USA. Filtration. Separation. Solution.SM is a service mark of Pall Corporation.