

MultiPoly® FILTER CARTRIDGES

MULTI-LAYER PLEATED POLYPROPYLENE MEDIA FOR PRE-FILTRATION AND FINAL FILTRATION TO AND ELIMINATE INK CONTAMINANTS (GELS AND AGGLOMERATES)

MultiPoly® Filter Cartridges are composed of multi-layered pleated polypropylene. These filters have a depth filter design that includes graded pore size and a high contaminant holding capacity which eliminates contaminants (including gels and agglomerates) in highly viscous liquids and avoids filter surface plugging. The graded pore size distribution from coarse (upstream) to fine (downstream) removes particles gradually and extends the filter's service life making it especially suited for eliminating contaminants in ink.

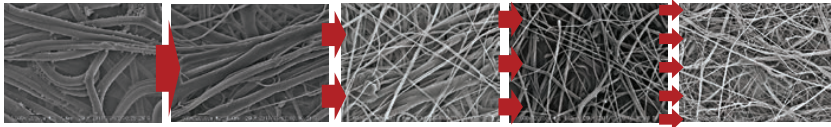
FEATURE

BENEFIT

5 to 7 layers of PP media with graded pore size distribution

Enables additional particle loading and high contaminant holding capacity

Low pressure drop, long service life, filtration efficiency



Multi-layer nano fiber media

Provides excellent removal of contaminants including gels and agglomerates

Polypropylene construction

Excellent compatibility with most ink chemistries

Quality Assurance

Manufactured in a facility which adheres to ISO 9001 Practices.

Particle Shedding

Non-fiber releasing. Autoclaved filter effluent meets the requirements in USP <788>

Non-Fiber Releasing

Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)

SPECIFICATIONS

Filter media

Multi-Layer Nano Fiber Polypropylene

Supports/core/cage/end caps

Polypropylene

Effective filtration area

0.26 - 0.29m² (2.7 - 3.1ft²) / 10" x Layers

O-rings

Silicone, EPDM, FKM, FEP/PFA encapsulated FKM

O-ring internal insert

PBT

Cartridge diameter

69 mm (2.7 in.)

Max. Operating temperature

80°C

Max. Differential pressure

0.40 MPa (4.0 bar, 58 psi) at 21°C;
0.21 MPa (2.1 bar, 31 psi) at 80°C

Removal rating

0.3 µm to 90 µm



Typical Applications

- Pigment Inks
- Ceramic Inks
- Aqueous Inks
- Clarification



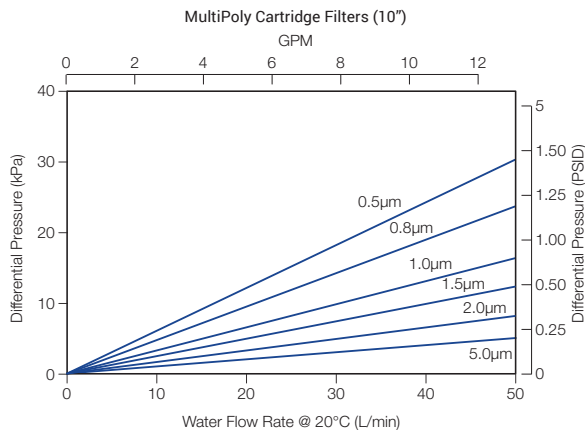
Max. Operating pressure
 0.69 MPa (6.9 bar, 100 psi) at 25°C
 0.40 MPa (4.0 bar, 58 psi) at 60°C
 0.24 MPa (2.4 bar, 35 psi) at 80°C

Max. Differential pressure
 Forward:
 0.69 MPa (6.9 bar, 100 psi) at 25°C
 0.40 MPa (4.0 bar, 58 psi) at 60°C
 0.24 MPa (2.4 bar, 35 psi) at 80°C
 Reverse:
 0.3 MPa (3.0 bar, 44 psi) at 25°C
 0.1 MPa (1.0 bar, 15 psi) at 80°C

RETENTION

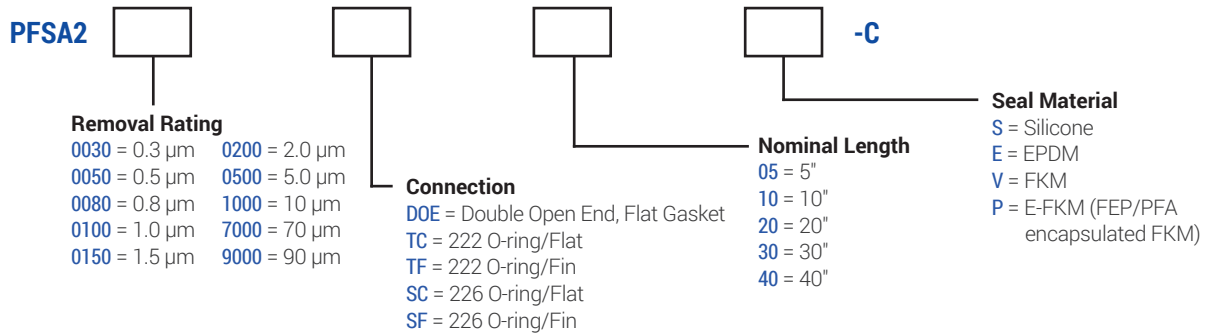
| Test Size \ Filter Rating | Retention Rate (%) | | | | | | |
|---------------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | 0030 (0.3 µm) | 0050 (0.5 µm) | 0080 (0.8 µm) | 0100 (1.0 µm) | 0150 (1.5 µm) | 0200 (2.0 µm) | 0500 (5.0 µm) |
| ≥ 0.5µm | 99.02% | 98.87% | - | - | - | - | - |
| ≥ 1.0µm | 100% | 99.65% | 99.98% | 98.90% | 97.45% | - | - |
| ≥ 2.0µm | 100% | 100% | 99.99% | 99.99% | 99.98% | 98.58% | - |
| ≥ 5.0µm | 100% | 100% | 100% | 100% | 100% | 100% | 98.87% |

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **PFSA21000SF10E-C** = 10 µm, 226/Fin, 10" filter with EPDM seals



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