

MultiPoly® FILTER CARTRIDGES

MULTI-LAYER PLEATED POLYPROPYLENE MEDIA FOR PRE-FILTRATION AND ELIMINATION OF CONTAMINANTS IN HIGHLY VISCOUS LIQUIDS, INCLUDING GELS AND AGGLOMERATES, COLLOIDS, AND SUSPENDED PARTICULATES

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 suspended particulates, colloids, and viscous liquids.

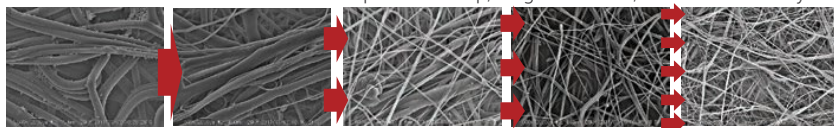
FEATURE

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 chemical compatibility

QUALITY STANDARDS

Quality Assurance

These products are manufactured in a facility which adheres to ISO 9001 Practices.

TOC / Conductivity at 25°C

Autoclaved filter effluent meets the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush of specified volume.

Particle Shedding

Autoclaved filter effluent meets the requirements in USP <788> for large volume injections

Non-Fiber Releasing

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

Bacterial Endotoxin

Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>.

USP <87> Cytotoxicity

Meet the requirement of USP <87> In Vitro Cytotoxicity Test

USP <88> Biological Toxicity

Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.

Indirect Food Additive

All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC].



Typical Applications

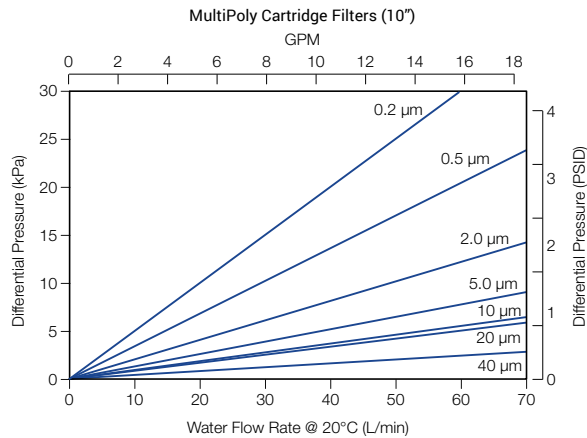
- Culture Medium
- Fermentation Broths
- Gel Materials
- High Viscosity Materials
- Serums



SPECIFICATIONS

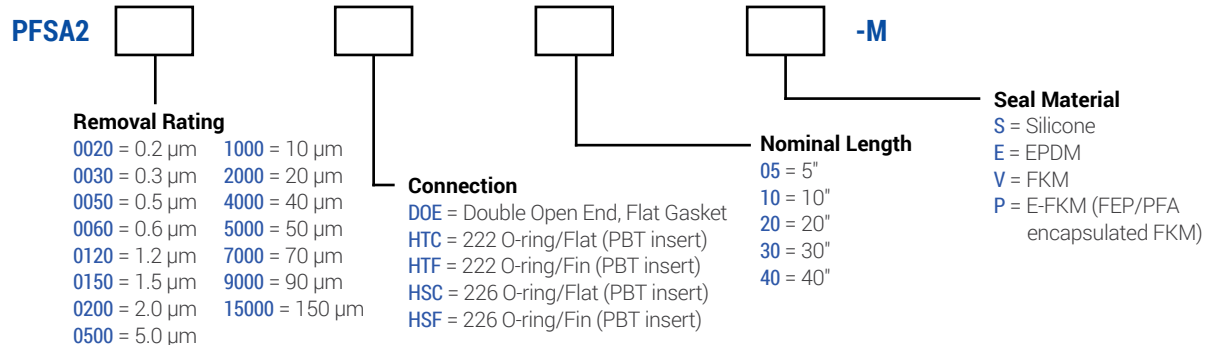
Filter media	Multi-Layer Nano Fiber Polypropylene
Supports/core/cage/end caps	Polypropylene
Effective filtration area	0.26 - 0.29m ² (2.7 - 3.1ft ²)/ 10" x Layers
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
O-ring internal insert	PBT
Cartridge diameter	69 mm (2.7 in.)
Max. Operating pressure	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
Inline steam sterilization	up to 20 cycles for 30 min at 125°C at < 0.03 MPa (0.3 bar, 4.4 psi) per cycle

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **PFSA20120HSF10S-M** = 1.2 μm, 226/Fin, 10" filter with Silicone seals



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