

DMC Series



Polypropylene Melt Blown Filter Cartridges with Cores

DMC series filter cartridges are robust, high efficiency polypropylene melt blown depth filters with an internal polypropylene core for added strength. Delta Pure Filtration employs 100% FDA approved polypropylene, and utilizes a multi-layered construction for progressive contaminant removal efficiency. Our innovative production process creates a depth filter with superior performance and consistency. Standard graded density cartridges are available along with custom-gradient configurations. Cartridges are available in lengths to 50" (127 cm) and various diameters to 6" (15.2 cm).

The polypropylene filter medium of the DMC Series filter provides broad chemical compatibility. These cartridges are ideal pre-filters and polishing filters where there is a fairly wide contaminant particle size distribution and also allow excellent control of gelatinous



DMC Series filters are available with a variety of end fitting options to fit almost any filter vessel configuration.

contaminants. The fibers are melt-bonded to create a strong, non-shedding medium with a "fixed pore structure" that prevents release of trapped particles.

Benefits

- Center core for strength
- High flow rates
- Low pressure drop
- High dirt-holding-capacity
- Fixed-pore-structure retains trapped debris
- FDA listed polypropylene – 21 CFR 177.1520
- Broad chemical compatibility
- Controlled process parameters – consistent product
- Made by Delta Pure Filtration in USA



Applications*

- RO pre-filtration, DI water
- Bottled water, potable water, municipal water
- Juices, flavors, food and beverage, cosmetics
- Weak acids, plating chemicals
- Weak bases, caustics
- Amines, glycols, produced water, brine fluids
- Paints, inks, pigments, , coatings
- Solvents (non-halogenated)

* Filter users should evaluate chemical compatibility on a case-by-case basis.

DMC Series

Polypropylene Melt Blown Filter Cartridges

Specifications

Filter Medium

Polypropylene, per FDA CFR 177.1520

Rigid Internal Filter Support Core

Polypropylene, per FDA CFR 177.1520

Cartridge ID

1 1/16" (2.7 cm)

Cartridge OD

DMB-X 2.5" (6.4 cm)

DMB-X-J 4 1/2" (11.4 cm)

Maximum for special cartridges: 6" (15.2 cm)

Length

Up to 50" (127 cm)

Efficiency

90% nominal

Recommended Max. Differential Pressure

60 PSID @ 68°F (4.1 bar @ 20°C)

30 PSID @ 176°F (2.1 bar at 80°C)

Box Quantities

2 1/2" OD

9.75" - 10" length – 40/box

20", 30", 40", 50" length – 20/box

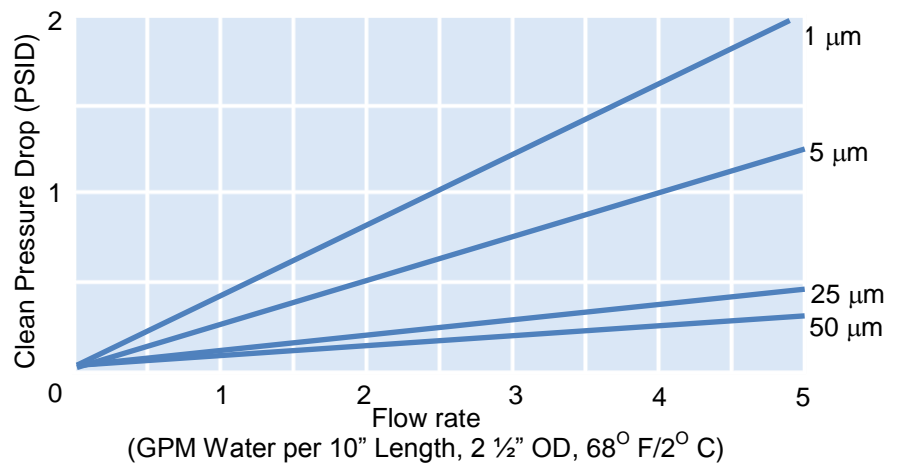
4 1/2" OD

9.75" - 10" length – 10/box

20" length – 5/box



Pressure Drop vs. Flow Rate



Model/Code Ordering Information

Cartridge Type	Micron Rating	Length Inches	Diameter	Options	O-rings
DMC melt blown filter with internal rigid core	1	9.75	[blank] 2.5" OD	[none] - DOE for knife edge seal	[blank] – none
	3	10	J – 4.5" OD	2SD - SOE, 222 O-ring seal, w/ flat top*	B – Buna N
	5	20		2SF - SOE, 222 O-ring seal, w/ fin*	E – EPDM (EPR)
	10	30		2SPR - SOE, 222 O-ring seal, w/ spring top*	S – Silicone
	15	40		6SD - SOE, 226 O-ring seal, w/ flat top*	V – FKM
	25	50		6SF - SOE, 226 O-ring seal, w/ fin*	fluoroelastomer
	50			E - DOE for knife edge seal, extended core	
	100			EC - DOE, end caps with polypropylene PPR gaskets*	
	1/25			GP - polyethylene gaskets (heat sealed to filter)	
	5/25			SPR – SOE spring in top, knife edge seal	
	25/50				

Example: DMC-5-30-2SD-S polypropylene melt blown filter with core, 5 micron, 30 inches tall, 222 O-rings of silicone, flat top
For customized filters for challenging or specialized applications, please contact Delta Pure.

* Note: End fittings can be affixed using an adhesive per 21 CFR 175-105.