

# DMB Series



## Polypropylene Melt Blown Filter Cartridges

DMB series filter cartridges are polypropylene melt blown depth filters. 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 to meet specific application requirements. DMB Series filter cartridges are available in lengths to 50" (127 cm) and various diameters to 6" (15.2 cm).

DMB Series cartridges are ideal pre-filters and polishing filters where there is a fairly wide contaminant particle size distribution. The depth filtration mechanism also provides excellent control of gelatinous contaminants. A fixed pore structure formed by the non-shedding, bonded

### Benefits

- 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



*DMB series filters are available with a variety of end fitting options to fit almost any filter vessel configuration.*

medium prevents release of trapped particles.

The self-supporting fiber matrix enables a coreless design that is both economical and strong. The polypropylene filter medium provides broad chemical compatibility.

### Applications\*

- RO pre-filtration, DI water, makeup 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, solvents (non-halogenated)

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

# DMB Series

## Polypropylene Melt Blown Filter Cartridges

### Specifications

#### Filter Medium

Polypropylene, per 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

35 PSID (2.4 bar)

#### Box Quantities

2 1/2" OD

9.75" - 10" length – 40/box

20", 30", 40", 50" length – 20/box

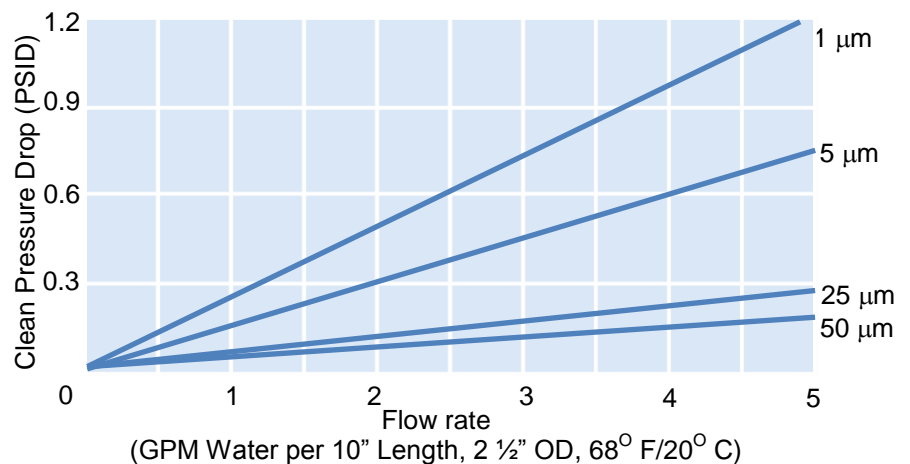
4 1/2" OD

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
DMB Melt blown filter	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:** DMB-5-30-2SD-S polypropylene melt blown filter, 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.