



# MBC™ Series Filter Cartridges

## Melt Blown Filters

### Product Specifications

**Media:** Polypropylene

**End caps/Center Core:** Polypropylene

**Gaskets/O-Rings:**

Buna-N, EPDM, Santoprene,  
Silicone, Teflon Encapsulated  
Viton (O-Rings only), Viton

**Micron rating:**

1, 3, 5, 10, 20, 30, 50, 75 µm

### Dimensions

**Nominal lengths:**

5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40"  
(12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2,  
99.1, 101.6 cm)

*(Other lengths available)*

**Outside diameter:** 2.5" (6.35 cm), 2.63" (6.7 cm)

End capped

**Inside diameter:** 1.0" (2.54 cm)

### Operating Parameters

**Maximum differential pressure:**

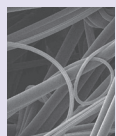
150 psid @ 68°F (10.3 bar @ 20°C)

90 psid @ 150°F (6.2 bar @ 66°C)

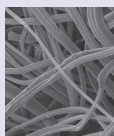
35 psid @ 176°F (2.4 bar @ 80°C)

**Recommended change-out pressure:**

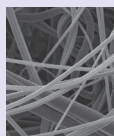
35 psid (2.4 bar)



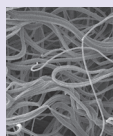
Outer pre-  
filter zone



Inner pre-  
filter zone



Final pre-  
filter zone



Final filtra-  
tion zone

An economical, melt blown filter element that can be used in a wide range of applications. The MBC depth filter is constructed of 100% polypropylene media for chemical compatibility with a variety of process fluids. The molded core prevents collapse even at elevated temperatures.

### FEATURES & BENEFITS

- Available in nominal ratings from 1 to 75 microns
- Molded core for excellent collapse strength
- Graded pore construction for long on-stream life
- Melt blown media resists dirt unloading as differential pressure increases
- Non-shedding
- High dirt holding capacity
- Economical depth filtration
- Thermal bonded endcaps optional
- Free of binders, adhesives and surfactants

### CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- NSF 61: Certified to NSF/ANSI STD 61 for materials requirements only — Component
- European Directive for Direct Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

### TYPICAL APPLICATIONS

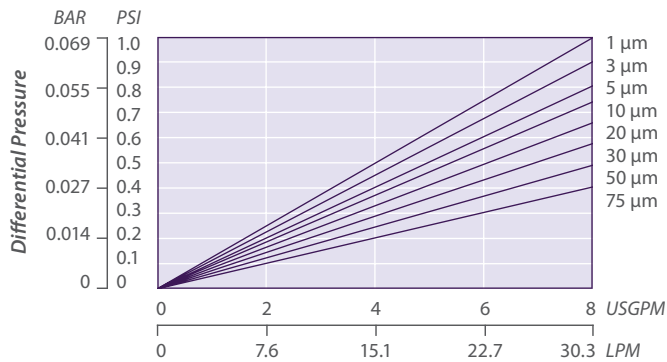
- RO Prefilters
- Wastewater
- Chemicals
- Blowdown post filter
- Radwaste
- Aqueous solutions
- Inks

## MBC NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration	Gasket or O-Ring
MBC Series	1	20	-5	-29.25	P Double Open End (Hard Endcaps)	B Buna-N
	3	30	-9.75	-30	P2 226/Flat Single Open End	E EPDM
	5	50	-10	-39	P3 222/Flat Single Open End	N None
	10	75	-19.5	-40	P6 Self-Seal Spring on One End	S Silicone
				-20	P7 226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
				P8 222/Fin Single Open End	V Viton	
				PX Extended Core		
				N None (Cut Ends)		
				DBG Direct Bond Santoprene Gaskets		
Example: MBC 10-20NN						
MBC	10		-20		N	N

## MBC FLOW RATE

**Typical Flow Rate Clean Water at Ambient Temperature  
(per 10" cartridge)**



*For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise*



Certified to  
NSF/ANSI Standard 61 for  
materials requirements only.

**COMPONENT**