



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION



# MBC™ Series Filter Cartridges

## Melt Blown Filters

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.

### 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:

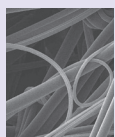
150 psid @ 68°F (10.3 bar @ 20°C)

90 psid @ 150°F (6.2 bar @ 66°C)

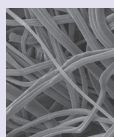
35 psid @ 176°F (2.4 bar @ 80°C)

#### Recommended change-out pressure:

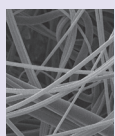
35 psid (2.4 bar)



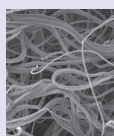
Outer  
prefilter  
zone



Inner  
prefilter  
zone



Final  
pre-filter  
zone



Final  
filtration  
zone

### 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

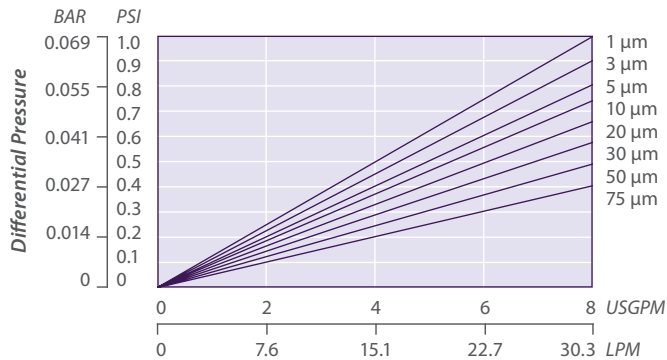
- RO Prefilters
- Wastewater
- Chemicals
- Blowdown post filter
- Radwaste
- Aqueous solutions
- Inks

## MBC NOMENCLATURE INFORMATION

| Filter Type                 | Retention Rating (microns) |    | Nominal Length (inches) |        | End Configuration                   | Gasket or O-Ring                     |
|-----------------------------|----------------------------|----|-------------------------|--------|-------------------------------------|--------------------------------------|
| <b>MBC Series</b>           | 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  |                                      |
|                             |                            |    |                         |        | AM Single Open End, Internal O-Ring |                                      |
| <b>Example: MBC 10-20NN</b> |                            |    |                         |        |                                     |                                      |
| 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

### FOR MORE INFORMATION

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### DISTRIBUTED BY



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