



Graver Technologies

FILTRATION | SEPARATION | PURIFICATION

# Crystal MBF Series Filter Cartridges

## *Melt Blown Filters*

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

### Product Specifications

**Media:** Polypropylene

**End caps/Center Core:** Polypropylene

**Micron rating:**

1, 3, 5, 10, 20, 30, 50, 75  $\mu$ m

### 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:** 1.1" (2.79 cm)

### Operating Parameters

**Maximum differential pressure:**

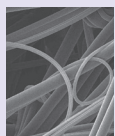
65 psid @ 68°F (4.5 bar @ 20°C)

50 psid @ 100°F (3.4 bar @ 38°C)

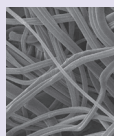
25 psid @ 170°F (1.7 bar @ 77°C)

**Recommended change-out pressure:**

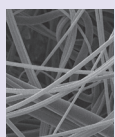
35 psid (2.4 bar)



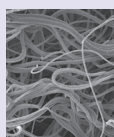
Outer  
prefilter  
zone



Inner  
prefilter  
zone



Final  
pre-filter  
zone



Final  
filtration  
zone

### FEATURES & BENEFITS

- Available in nominal ratings from 1 to 75 microns
- Formed Crystal 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
- Free of binders, adhesives and surfactants
- Highly consistent performance

### 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

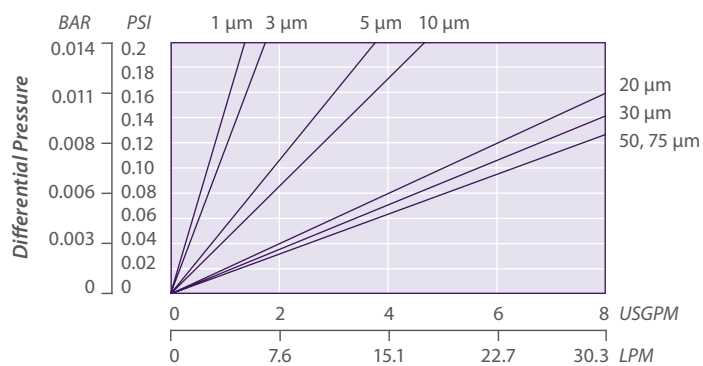
- RO Prefilters
- Chemicals
- Aqueous solutions
- Wastewater
- Blowdown post filter
- Inks
- Food and beverages
- Radwaste

## CRYSTAL MBF NOMENCLATURE INFORMATION

Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring	
CMBF Series	1	20	−5	−29.25	N	None (Cut Ends)	N	None
	3	30	−9.75	−30				
	5	50	−10	−39				
	10	75	−19.5	−40				
		−20						
Example: CMBF 10−20NN								
CMBF	10		−20		N		N	

## CRYSTAL MBF 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/CAN 61

### FOR MORE INFORMATION

GTX-339 11-21

### DISTRIBUTED BY

Customer Service/Technical Support: 1-888-353-0303

Europe (UK): +44-1424-777791 | China: +86-21-5238-6576

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Graver Technologies | 200 Lake Drive, Glasgow, DE 19702 | 302-731-1700 | 800-249-1990  
Fax: 1-302-369-0938 | [info@gravertech.com](mailto:info@gravertech.com) | [www.gravertech.com](http://www.gravertech.com)

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