

# MBT Series Filter Cartridges

High Performance Filters

**Clarity**  
clear solutions

## PRODUCT HIGHLIGHTS

- **Non-shedding cartridge**, free of binders
- **Variety** of thermally bonded end-caps
- **Graded pore construction** for high dirt-holding capacity
- **Manufactured in** a Certified ISO 9001 Quality System
- **USP Class VI**: Meets USP Class VI Biological Test for Plastics
- **Listed Materials**: All materials comply with FDA Title 21 CFR Sections 174.5, 177.1520, and 177.2600
- **NSF 61**: Certified to NSF/ANSI STD 61 for materials requirements only— Component



## PRODUCT DESCRIPTION

For critical customer applications requiring precise and repeatable depth filtration, **MBT Series** high performance filters deliver exceptional performance. With multi-zoned construction, true clarifying filtration is achieved with no unloading of captured contaminant.

### Superior Design & Construction

The cartridges feature a proprietary multi-zone graded pore structure with polypropylene end caps and industry-leading gasket/O-ring options to suit diverse chemical environments. Available in nine standard lengths with a 2.5" outer diameter, these cartridges integrate seamlessly into existing filtration systems resulting in 90% removal efficiency at the stated micron ratings. Thermally bonded fibers for high void volume and long on-stream life. Lot traceable filters come with certificate of conformance.

ABSOLUTE RATED RETENTION

0.5, 1, 3, 5, 10, 20, 50, 75, 100 µm

CONSTRUCTION METHOD

Thermal Bond

INSIDE DIAMETER

1.0"

OUTSIDE DIAMETER

2.5" with uncut ends and 2.63" with end-cap

RECOMMENDED DIFFERENTIAL PRESSURE

35 psid (2.4 bar)

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)

MAXIMUM OPERATING TEMPERATURE

176°F (80°C)

FILTER MEDIA

Meltblown Polypropylene

CAGE/CAPS

Polypropylene

LENGTHS

5, 9.75, 10, 19.5, 20, 29.25, 30, 39, 40"

TOXICITY

Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact

CARTRIDGE SEALS

Buna-N | EPDM | Viton | Silicone |  
Teflon Encapsulated Viton

SEALING

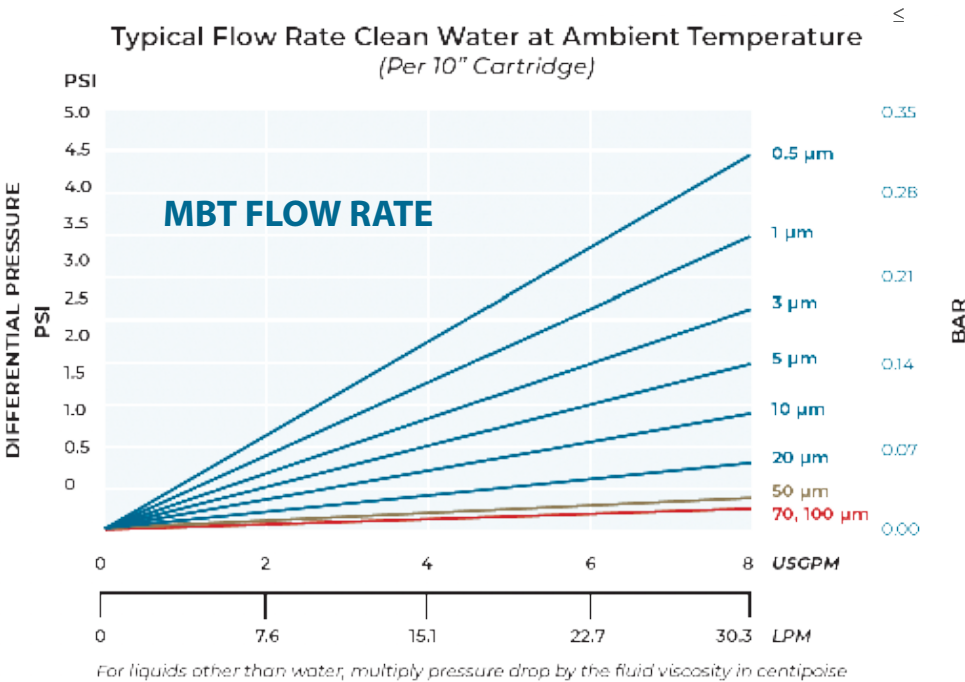
Thermal Bond

PACKAGING ECONOMY

Bulk packaging in case quantities to reduce material disposal

SPECIFICATIONS

v 1026



ORDER OPTIONS

| CARTRIDGE                                | MICRON SIZE                                                                  | LENGTH                                                            | ENDCAP CONFIGURATIONS                                                                                                                                                                                                                      | O-RING                                                                                                                                         |
|------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MBT</b>   Melt-Blown with Molded Core | 0.5 µm<br>1 µm<br>3 µm<br>5 µm<br>10 µm<br>20 µm<br>50 µm<br>75 µm<br>100 µm | 5"<br>9.75"<br>10"<br>19.5"<br>20"<br>29.25"<br>30"<br>39"<br>40" | <b>C1</b> Double Open Ends<br><b>C2</b> 213/Recessed Cup<br><b>C3</b> 222/Flat<br><b>C4</b> Single Open End/Flat<br><b>C5</b> 222/Recessed Cup<br><b>C6</b> 226/Flat<br><b>C7</b> 226/Fin<br><b>C8</b> 222/Fin<br><b>N</b> None (Cut Ends) | <b>B</b> Buna-N<br><b>E</b> EPDM<br><b>N</b> None<br><b>S</b> Silicone<br><b>T</b> Teflon encap.<br>Viton (O-Rings only)<br><b>V</b> V = Viton |

