

MBT Series Filter Cartridges

HIGH PERFORMANCE FILTERS

THE STRAINRITE Companies | World Class Filtration

MBT Series Filter Cartridges— High Performance Depth Filtration

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

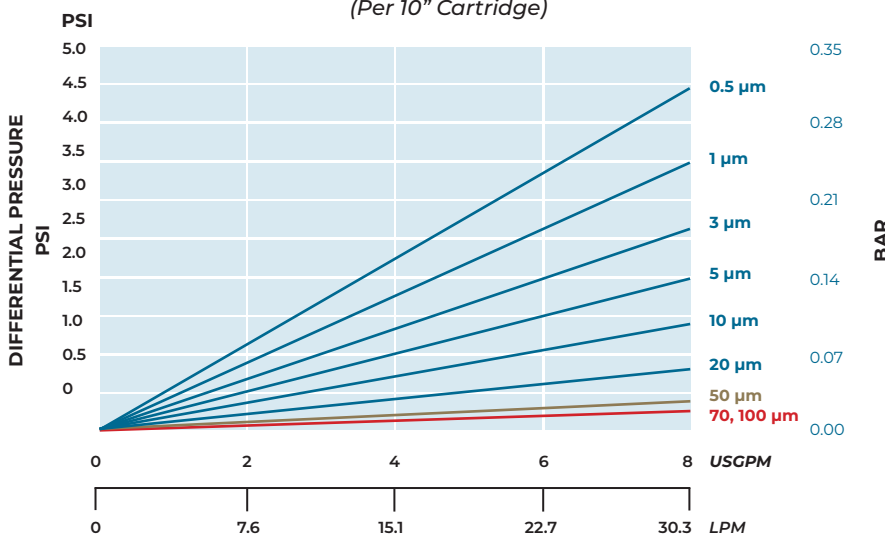
The cartridges feature a proprietary multi-zone graded pore structure with polypropylene end caps and industry-leading gasket/O-ring options to suit diverse chemical environments. Available in nine standard lengths with a 2.5" outer diameter, these cartridges integrate seamlessly into existing filtration 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.

- > Non-shedding cartridge, free of binders
- > Variety of thermally bonded end-caps
- > Graded pore construction for high dirt-holding capacity



MBT 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

Regulatory and Quality Commitments



V1_00_2026

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- Binder and Surfactant Free
- Manufactured in a Certified ISO 9001 Quality System
- USP Class VI: Meets USP Class VI Biological Test for Plastics (full statement)
- FDA 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
- European Directive for Direct Food Contact: EU Regulation No. 1935/2004 and EU Regulation 10/2011
- PWIS/LABS: Filter media tested to VDMA 24364:2018-05 standards
100% Polypropylene Media



SPECIFICATIONS

MAXIMUM OPERATING DIFFERENTIAL PRESSURE:	
150 psid (10.3 bar) @ 68°F (20°C) 90 psid (6.2 bar) @ 150°F (66°C) 35 psid (2.4 bar) @ 176°F (80°C)	
MAXIMUM OPERATING TEMPERATURE	
176°F (80°C)	
RECOMMENDED CHANGE-OUT PRESSURE	
35 psid (2.4 bar)	
TOXICITY	
Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact	
RETENTION RATING	
0.5, 1, 3, 5, 10, 20, 50, 75, 100 µm	
END CAPS	CARTRIDGE SEALS
Polypropylene	Buna-N EPDM Santoprene Silicone Teflon Encap. Viton (O-Rings only) Viton
CAGE / CORE	SEALING
Polypropylene	Thermal Bond
FILTER MEDIA	
Meltblown Polypropylene	
INSIDE DIAMETER	
1.0" (2.54 cm)	
OUTSIDE DIAMETER	
2.5" (6.35 cm), 2.63" (6.7 cm) End Capped	

Order Options

CARTRIDGE	RATINGS	LENGTHS	END CAP	O-RING
MBT Melt Blown w/ Molded Core	0.5 = 0.5 µm 1 = 1 µm 3 = 3 µm 5 = 5 µm 10 = 10 µm 20 = 20 µm 50 = 50 µm 75 = 75 µm 100 = 100 µm	5" 9.75" 10" 19.5" 20" 29.25" 30" 39" 40"	C1 = Double Open Ends C2 = 213/Recessed Cup C3 = 222/Flat C4 = Single Open End/Flat C5 = 222/Recessed Cup C6 = 226/Flat C7 = 226/Fin C8 = 222/Fin N = None (Cut Ends)	B = Buna-N E = EPDM N = None S = Silicone T = Teflon Encapsulated Viton (O-Rings only) V = Viton

** Inquire on alternative options*



Order Option Example

MBT → 0.5 → 30 → N → N → MBT0.5-30NN
Capsule Rating Length End Cap O-Ring

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