



MTEC-WB

Pleated Polyethersulfone Cartridge Filters

- Absolute Rated
- FDA Certified



For Critical Filtration
in Beverage Applications

SUITABLE USES



Air & Gas



Desalination



Coolant



Water



Electronics



Coatings



Food & Beverage



Oil & Gas



Chemical



Pulp & Paper



Power



Marine



Equipment

ADDITIONAL FEATURES

Pleated 2.7" OD element with exceptional dirt holding capabilities.

Effective absolute rated filtration with available micron ratings from 0.2µm to 1.2µm.

Manufactured in an ISO Class 7 Clean room environment.

100% flushed with 18 MΩ -cm DI water and integrity tested.

Low adsorption of protein, color and flavor components.

All materials are FDA listed for food and beverage contact.

Steamable/sanitizable for cleaning and reuse.

High log reduction values for spoilage organisms.

PES membrane provides high capacity contaminant loading.

*For more information, please contact
info@fil-trek.com or visit Fil-Trek.com*

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STANDARD SPECIFICATIONS

MAXIMUM DIFFERENTIAL PRESSURE 80 PSID (5.5 bar) @ 70°F (21°C)
40 PSID (2.8 bar) @ 176°F (80°C)

MAXIMUM REVERSE DIFFERENTIAL PRESSURE 40 PSID (2.8 bar) @ 70°F (21°C)

RECOMMENDED CHANGE OUT PRESSURE 35 PSID (2.4 bar)

MAXIMUM SUSTAINED OPERATING TEMPERATURE 180°F (82°C) @ 20 PSID (1.38 bar)

DIMENSIONS

Outside Diameter 2.7" (6.9 cm)

Inside Diameter 1.0" (2.54 cm)

Available Lengths 10", 20", 30", 40"
(25.4 cm, 50.8 cm, 76.2cm, 101.6 cm)

Surface Area Per 10" 7.6 ft² (0.7 m²)

MEDIA Asymmetric Polyethersulfone membrane

INNER CORE, END CAPS, CAGE Polypropylene

SUPPORT LAYERS Spunbonded Polypropylene

GASKETS/ O-RINGS Buna-N
EPDM
Silicone
Viton
Teflon encap Viton

MICRON RATINGS 0.2, 0.45, 0.65, 1.2

FDA LISTED MATERIALS All materials comply with FDA title 21 of the Code of Federal Regulations Sections 174.5, as applicable for food and beverage contact.

PRODUCT NOMENCLATURE

MTEC-WB	0.2	30	E2	BN
MTEC-WB SERIES	MICRON	LENGTH	END CAP	O-RING/GASKET
	0.2 0.45 0.65 1.2	10 20 30 40	E2—DOE w/ Gaskets E4—222/Flat Single Open End E5—222/Fin Single Open End E6—226/Flat Single Open End E7—226/Fin Single Open End E14—SOE w/ Internal O-ring	BN—Buna-N EP—EPDM SI—Silicone VI—Viton TEV—Teflon encap. Viton* *O-rings only

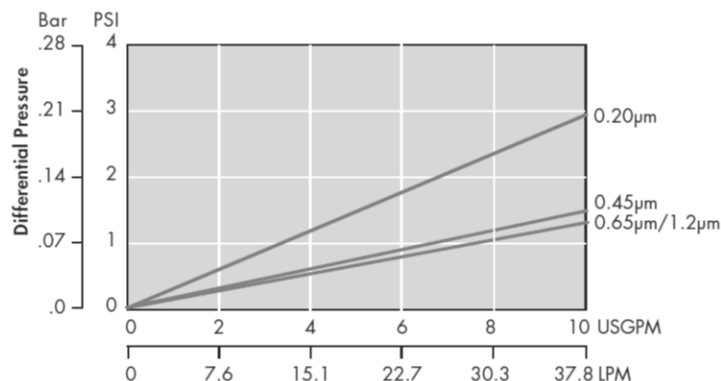
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FLOW RATE



HOT DI WATER

Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.

STEAM/AUTOClave

Cartridges may be steamed or autoclaved for at least 50 thirty minute cycles at 275°F (135°C).

CLEANING/SANITIZATION

Compatible with most common chemical cleaning, sanitizing and sterilizing agents and with pH range from 1-14. Consult factory for specific compatibility information.

TYPICAL BACTERIAL RETENTION PERFORMANCE

0.2 µm	LRV for <i>Pseudomonas aeruginosa</i> ≥ 11
0.45 µm	LRV for <i>Lactobacillus brevis</i> ≥ 7.6
0.45 µm	LRV for <i>Oenococcus oeni</i> ≥ 10.0
0.45 µm	LRV for <i>S. cerevisiae</i> ≥ 11
0.65 µm	LRV for <i>S. cerevisiae</i> ≥ 8.7
1.2 µm	LRV for <i>S. cerevisiae</i> ≥ 8

INTEGRITY TEST SPECIFICATIONS

	PORE SIZE	BUBBLE POINT	DIFFUSIVE AIR FLOW
Minimum Bubble Point values and maximum Diffusive Air Flow (per 10" cartridge values for MTec-WB filters wet with water)	0.2 µm	≥ 30 PSIG (2.1 bar)	≤ 35cc/min @ 25 PSIG (1.7 bar)
	0.45 µm	≥ 20 PSIG (1.4 bar)	≤ 35cc/min @ 16 PSIG (1.1 bar)
	0.65 µm	≥ 17 PSIG (1.2 bar)	≤ 35cc/min @ 14 PSIG (1.0 bar)
	1.2 µm	≥ 13 PSIG (0.9 bar)	≤ 35cc/min @ 11 PSIG (0.8 bar)