



MTEC-B

Pleated Polyethersulfone Cartridge Filters

- Absolute Rated
- FDA Certified



For Bioburden Reduction in Beverages
and Biopharmaceutical 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 0.65µm.
- Manufactured in an ISO Class 7 Clean room environment.
- 100% flushed with 18 MΩ -cm DI water and integrity tested.
- Meets USP Class VI Biological Test for Plastics.
- All materials are FDA listed for food and beverage contact.
- Steamable/sanitizable for cleaning and reuse.
- High retentions up to 107/cm² challenged for bacteria and yeast.
- Pore size, lot and serial number are stamped on each filter for identification and traceability.

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

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STANDARD SPECIFICATIONS

MAXIMUM DIFFERENTIAL PRESSURE	60 PSID (4.14 bar) @ 80°F (27°C) 30 PSID (2.07 bar) @ 160°F (71°C) 15 PSID (1.03 bar) @ 200°F (93.3°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 ft ² (0.7 m ²)

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
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-B	0.2	30	E2	BN
MTEC-B SERIES	MICRON	LENGTH	END CAP	O-RING/GASKET
	0.2 0.45 0.65	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



55 Stafford Court, Cambridge, ON N1T 1B3 P (519) 623-7448 F (519) 623-8807

For more information, e-mail: info@fil-trek.com or visit Fil-Trek.com

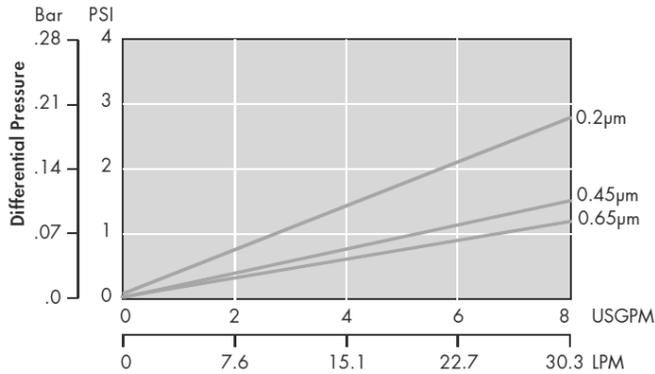
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FLOW RATE



HOT DI WATER

For maximum efficiency, determine the length of time it takes for the pressure drop to double that in the clean condition. Once the pressure drop reaches an unacceptable value, shut down line and follow the "Screen Removal Instructions" above. A pressure gauge installed before and after the strainer in-line will indicate pressure loss due to clogging and may be used to determine when cleaning is required.

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.

STEAM/AUTOCLAVE

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

TYPICAL BACTERIAL RETENTION PERFORMANCE

0.2 um	LRV for <i>B. diminuta</i> ≥ 7.8
0.45 um	LRV for <i>S. marcescens</i> ≥ 8.5
0.65 um	LRV for <i>S. cerevisiae</i> ≥ 11 LRV for <i>L. brevis</i> ≥ 7.6

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-B filters wet with water)	0.2 um	≥ 38 PSIG (2.6 bar)	≤35cc/min @ 30 PSIG (2.1 bar)
	0.45 um	≥ 25 PSIG (1.7 bar)	≤35cc/min @ 20 PSIG (1.4 bar)
	0.65 um	≥ 18 PSIG (1.2 bar)	≤35cc/min @ 15 PSIG (1.0 bar)