



Graver Technologies

Filtration | Separation | Purification

ZTEC-G™ Polyethersulfone Membrane Filter Series

Absolute Rated Polyethersulfone Membrane Pleated Filter Cartridges

This pleated, disposable filter element is constructed of absolute rated, hydrophilic, asymmetric polyethersulfone membrane with extended filter area to allow for a high system flow rate.

Filter Features–Benefits

- 7.0 ft² (0.65 m²) of membrane surface area per 10" element
 - High throughput
 - Longer on-line service reduces costly maintenance time
- Absolute rated membrane from 0.1 to 0.65 μm
- Manufactured in an ISO Class 7 cleanroom environment
- 100% flushed with 18 MΩ-cm DI water and bubblepoint tested
- Meets USP 24 Class VI biological test for plastics
- Fixed pore construction eliminates dirt unloading as differential pressure increases
- Low extractables

Filter Specifications

Media:	Asymmetric Polyethersulfone membrane	
Inner core, end caps, cage:	Polypropylene	
Support layers:	Spunbonded Polypropylene	
Gaskets/O-Rings:	Buna-N, EPR, Silicone, Viton, Teflon Encapsulated Viton O-Rings	
Micron ratings:	0.1, 0.2, 0.45, 0.65 μm	
Dimensions and Operating Parameters		
Nominal lengths:	9.75" 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)	
Outside diameter:	2.7" (6.9 cm)	
Inside diameter:	1.0" (2.54 cm)	
Surface area:	7 ft ² . (0.65m ²) per 10 inch element	
Maximum sustained operating temperature:	180°F (82°C) at 20 psid (1.38 bar)	
Maximum differential pressure:	60 psid @ 80°F (4.14bar @ 27°C) 30 psid @ 160°F (2.07 bar @ 71°C) 15 psid @ 200°F (1.03 bar @ 93.3°C)	
Maximum reverse differential pressure:	40 psid @ 70°F (2.8 bar @ 21°C)	
Recommended change-out pressure:	40 psid (2.76 bar)	



Performance Specifications

Hot DI Water

Filter cartridge will withstand temperatures of 203°F (95°C) for up to 30 consecutive minutes.

Chemical Compatibility

Filter cartridge resists most acids and bases, pH 1–14 and most oxidizing agents.

Sanitizing Agents

Filter cartridge may be sanitized in place with common oxidizing agents.

Steam/Autoclave

Cartridges may be steamed or autoclaved for at least 5 one-hour cycles @ 275°F (135°C).

Applications

- Food & Beverage
- Filtration of acids and bases
- Cosmetics
- Ink
- Chemicals
- Ultra pure water
- Aqueous solutions

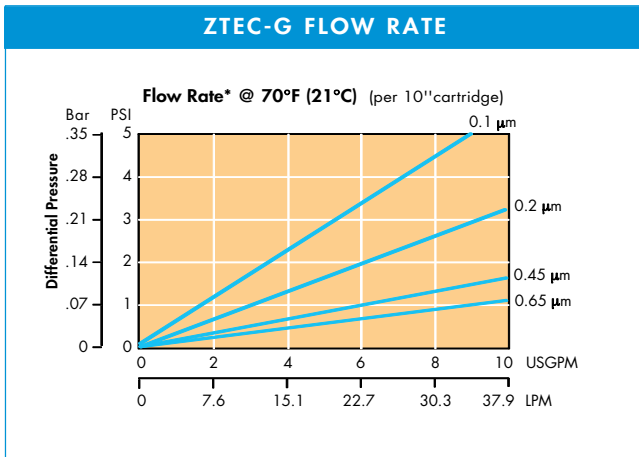
FDA listed materials

All polypropylene material used in manufacturing complies with the regulations of the Food and Drug Administration (FDA) title 21 of the Code of Federal Regulations Sections 174.5, as applicable for food and beverage contact.

ZTEC-G Nomenclature Information

<p>ZTEC-G</p> <p>Filter Type ZTEC-G Series Filters</p>	<p>0.1</p>	<p>-10</p> <p>Nominal Length (inches) -9.75 -10 -20 -30 -40</p>	<p>P7</p>	<p>S</p> <p>Gasket or O-Ring S Silicone B Buna-N E EPDM V Viton T Teflon encap. Viton (O-Rings only)</p>
<p>Retention Rating (microns) 0.1 0.2 0.45 0.65</p>				<p>End Configuration P Double Open End P2 226/Flat Single Open End P3 222/Flat Single Open End P7 226/Fin Single Open End P8 222/Fin Single Open End AM Single open end, internal O-Ring</p>

Example: ZTEC-G 0.1-10 P7S



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