



# ZTEC™ G Series Filter Cartridges

## *Absolute Rated Polyethersulfone Membrane Pleated Filter Cartridges*

### Product Specifications

**Media:** Asymmetric Polyethersulfone Membrane

**Inner core, end caps, cage:** Polypropylene

**Support layers:** Spunbonded Polypropylene

**Gaskets/O-Rings:**

Buna-N, EPDM, Silicone, Teflon Encapsulated  
Viton (O-Rings only), Teflon (gaskets), Viton

**Micron ratings:** 0.1, 0.2, 0.45, 0.65  $\mu\text{m}$

### Dimensions

**Nominal lengths:**

9.75" 10" 20" 30" 40"  
24.8 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:** 7.0 ft<sup>2</sup> (0.65 m<sup>2</sup>) per 10" element

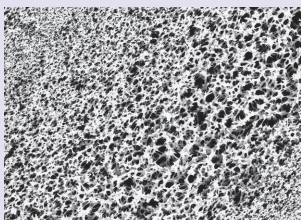
### Operating Parameters

**Maximum sustained operating temperature:**  
176°F (80°C) at 20 psid (1.38 bar)

**Maximum differential pressure:**  
80 psid @ 70°F (4.14 bar @ 21°C)  
40 psid @ 160°F (2.8 bar @ 71°C)

**Maximum reverse differential pressure:**  
40 psid @ 70°F (2.8 bar @ 21°C)

**Recommended change-out pressure:**  
35 psid (2.4 bar)



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.

### FEATURES & BENEFITS

- 7.0 ft<sup>2</sup> (0.65 m<sup>2</sup>) 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  $\mu\text{m}$
- Manufactured in an ISO Class 7 cleanroom environment
- 100% flushed with 18 M $\Omega$  -cm DI water and gross integrity tested
- Fixed pore construction eliminates dirt unloading as differential pressure increases
- Low extractables

### CERTIFICATIONS

- USP Class VI: Meets USP Class VI Biological Test for Plastics
- FDA Listed Materials: All materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, 177.1520, and 177.2440 as applicable for food and beverage contact.
- European Directive for Food Contact: European Regulation No. 1935/2004 and European Regulation 10/2011: Tested for migration behavior and is suitable for contact with all kinds of foodstuffs with minimal rinse-up. Data available upon request.

### TYPICAL APPLICATIONS

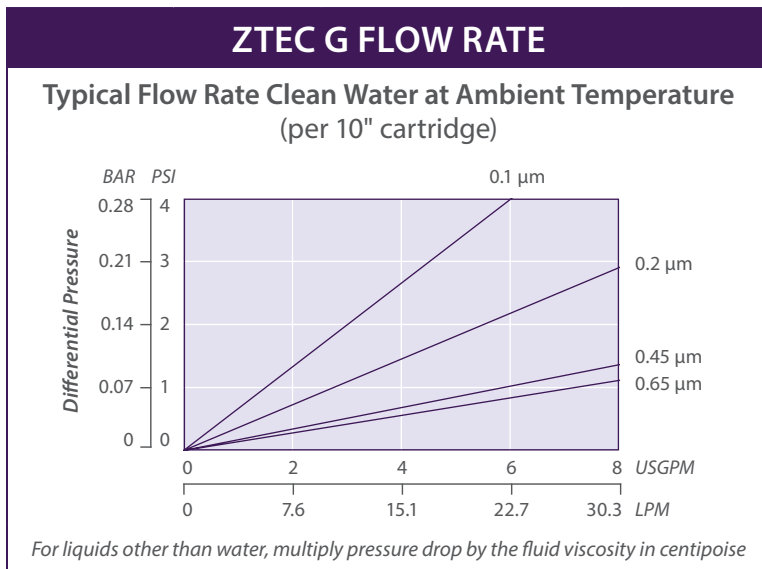
- Food and Beverage
- Filtration of acids and bases
- Cosmetics
- Inks
- Chemicals
- Ultra pure water
- Aqueous solutions

# PERFORMANCE SPECIFICATIONS

- Hot DI Water: Filter cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes.
- 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 @ 275°F (135°C).

ZTEC G NOMENCLATURE INFORMATION							
Filter Type	Retention Rating (microns)		Nominal Length (inches)		End Configuration		Gasket or O-Ring
ZTEC G Series	0.1	0.45	-5	-20	P	Double Open End	B Buna-N
	0.2	0.65	-9.75*	-30	P2	226/Flat Single Open End	E EPDM
			-10	-40	P3	222/Flat Single Open End	S Silicone
					P7	226/Fin Single Open End	T Teflon encap. Viton (O-Rings only)
					P8	222/Fin Single Open End	T Teflon (gaskets)
				AM	Single Open End, Internal O-Ring	V Viton	
Example: ZTEC G 0.1-10P7S					NPC	Double Open End, Internal O-Ring	
ZTEC G	0.1		-10		P7		S

\*Available only for DOE (P) configuration



## FOR MORE INFORMATION

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