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 ft^2 (0.65 m^2) 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 gross integrity tested
- Meets USP 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. (0.65 m^2) per10 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:	*35 psid (2.4 bar)*

Performance Specifications

Hot DI Water

Filter cartridge will withstand temperatures of 185°F (85°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 50 thirty minute cycles @ 275°F (135°C).

Applications

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

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.

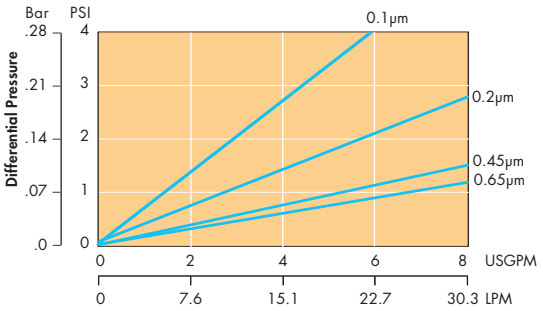
ZTEC-G Nomenclature Information

ZTEC-G	0.1	-10	P7	S
Filter Type ZTEC-G Series Filters		**Nominal Length (inches)** **-9.75** **-10** **-20** **-30** **-40**		**Gasket or O-Ring** **S** Silicone **B** Buna-N **E** EPDM **V** Viton **T** Teflon encap. Viton (O-Rings only)
Retention Rating (microns) **0.1** **0.2** **0.45** **0.65**			**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	

Example: ZTEC-G 0.1-10 P7S

ZTEC-G FLOW RATE

Typical Flow Rate @ 70°F (21°C) (per 10''cartridge)



For more information

Graver Technologies Customer Service: **1-888-353-0303**
Technical Support: **1-800-510-0932**
E-mail us at **info@gravertech.com**
Graver Technologies Europe (UK): **+44-1424-777791**

All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Graver Technologies as to the effects of such use or the results to be obtained. Graver Technologies assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

ZTEC-G is a trademark of Graver Technologies, LLC.

DISTRIBUTED BY:

Graver Technologies
200 Lake Drive
Glasgow,
DE 19702 U.S.A.
302-731-1700
800-249-1990
Fax: 302-369-0938
e-mail: info@gravertech.com
web site: www.gravertech.com

BSI
ISO 9001:2008
FM 38860