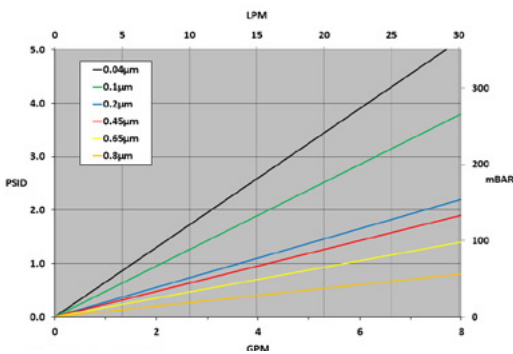


## GEPES-Series Electronics Grade Polyethersulfone

GEPES-Series High Purity Electronics Grade Polyethersulfone Filter Cartridges meet the stringent requirements of cleanliness of the micro-electronics industry. The polyethersulfone membrane offers high flux density and provides superior throughput for an extended operating life. Cartridges undergo extended flushing with 18 megaohm ultra-high purity water to achieve extraordinarily low levels of extractable substances. Each element is integrity tested for optimized, highly consistent performance. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



### Flow Rate vs Pressure Drop



### Typical Applications

- Ultra-Pure Water Systems
- Fine Chemical Filtration
- Photoresist Chemicals

### Construction Materials

**Membrane**..... Polyethersulfone  
**Support Media**..... Polypropylene  
**End Caps**..... Polypropylene  
**Center Core**..... Polypropylene  
**Outer Support Cage**..... Polypropylene  
**O-Rings/Gaskets**.....Buna, EPDM, Silicone, Teflon® Encapsulated Viton®, Viton®,

### Sanitization/Sterilization

**Filtered Hot Water**..... 80°C for 30 min.  
**Steam Sterilization** .....121°C for 30 min., multiple cycles

**Chemicals:** Cartridges are compatible with most chemical sanitizing agents.

**Note:** Stainless steel insert option required for all cartridges being hot water sanitized or steam sterilized.

### Dimensions

**Length:**  
10 to 40 inches (25.4 to 101.6 cm) nominal

**Outside Diameter:**  
2.70 inches (7.0 cm) nominal

### Operating Conditions

**Change Out ΔP (recommended)**.....35 PSID  
**Temperature (max)** ..... 176°F (80°C)  
**Differential Pressure (max)** ..... 50 PSID (3.4 bar) at 68°F (20°C)

### Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

### Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC, 1935/2004, and/or 10/2011.

### Ordering Information

GEPES	Rating (μ)	A	Length	C	End Cap Style	O-Rings/Gaskets	-	Adders
	0.04		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	0.1		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		I = Stainless Steel Insert
	0.2		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
	0.45		40" (101.6 cm)		6 = 226 w/ Flat Cap	T = Teflon® Encapsulated Viton®		
	0.65				7 = 226 w/ Fin	V = Viton®		
	0.8				16 = 213 Internal O-Ring	Z = Teflon® Encapsulated Silicone		

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required. For additional technical support, a product Performance Guide is available upon request.