

# GBPES-Series Wine and Beverage Grade Polyethersulfone

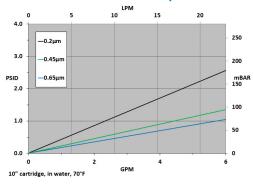
GBPES-Series High Purity Wine and Beverage Grade Polyethersulfone Filter Cartridges are optimized for the requirements of the wine and beverage industry. The polyethersulfone membrane offers high flux density and low protein-binding and maintains the organoleptic characteristics of the treated product, making it an ideal choice for production of consumables. Cartridges are flushed with ultra-high purity water to achieve the most stringent requirements for extractable substances. Designed to tolerate repeated hot water sanitization and in situ steam sterilization cycles for maximum service life. Each element is integrity tested to ensure optimal performance. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



Rating	Challenge Microorganism	LRV
0.2µ	Serratia marcescens	6.5
0.45μ	Sacchromyces cerevisiae	6.6
0.65µ	Sacchromyces cerevisiae, Lactobacillus	7.8

 $<sup>^{\</sup>ast}$  Independently tested in accordance with ASTM F838.

#### Flow Rate vs Pressure Drop





### **Typical Applications**

- Wine
  Soft Drinks
- Beer
  Bottled Water
- Juices

# **Dimensions**

Length	10 to 40 inches
	(25.4 to 101.6 cm) nominal
Outside Diameter	2.70 inches
	(7.0 cm) nominal

## **Construction Materials**

Membrane	Polyethersulfone
Support Media	Polypropylene
End Caps	Polypropylene
Cages and Cores	Polypropylene
O-Rings/Gaskets	Buna, EPDM, Silicone
Teflon® E	ncapsulated Silicone, Teflon®
	Encapsulated Viton®, Viton®

## Sanitization/Sterilization

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

**Chemicals:** Peracetic acid, chlorinated alkaline products, bleach, sulfur dioxide and hydrogen peroxide at typical sanitization concentrations and temperatures.

# **Operating Conditions**

Change Out $\Delta P$ (recommer	<b>nded</b> 35 PSID
Temperature (max)	176°F (80°C)
Differential Pressure (max)	72 PSID
	(5.0 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 1935/2004, and/or 10/2011.

#### **Ordering Information**

GBPES	Rating (µ)	Α	Length	С	End Cap Style	O-Rings/Gaskets	-	Adders
	0.2		10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	0.45		20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		I = Stainless Steel Insert
	0.65		30" (76.2 cm)		4 = 222 w/ Flat Cap	S = Silicone		
			40" (101.6 cm)		6 = 226 w/ Flat Cap	T = Teflon® Encapsulated Viton®		
					7 = 226 w/ Fin	Z = Teflon® Encapsulated Silicone		
					28 = 222 3-tabs w/ Fin	V = Viton®		

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.

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