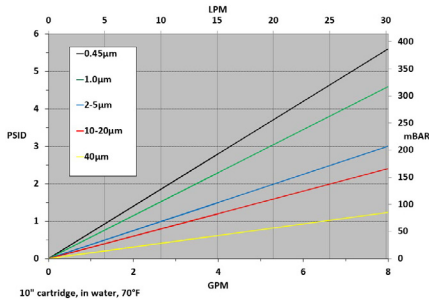


## GHLS-Series Lofted Pleated Polypropylene

GHLS-Series High-Loft Pleated Polypropylene filter cartridges provide an element designed for removal of agglomerated and deformable contaminants in oils and gels. With its added loft, the GHLS is an ideal combination of both depth and pleated depth functionality. This allows for high retention and holding capacity without inhibiting throughput. The pleated depth media is encapsulated in an integral, continuous length, thermally-bonded structure for cleanliness, pressure tolerance, and chemical inertness. Offered in both absolute rated (up to 99.98% retention) and nominally rated (90% retention) grades in common adapter configurations. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



### Flow Rate vs Pressure Drop



\*All data is based on absolute rated medias. Nominally rated medias will result in a pressure drop reduction of approximately 10%.

### Typical Applications

- Agglomerated Particles
- CBD Oils
- CMP Slurries
- Coatings
- Edible Oils
- Gels
- Inks
- Paints

### Construction Materials

**Filtration Media**.....Polypropylene  
**Support Media**.....Polypropylene & PE/PET  
**End Caps**.....Polypropylene  
**Center Core**.....Polypropylene  
**Outer Support Cage**.....Polypropylene  
**O-Rings/Gaskets**.....Buna, EPDM, Silicone, FKM, FEP FKM, FEP Silicone, PTFE

### 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.

### 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  $\Delta P$  (recommended)**.....2.4 bar  
**Temperature (max)**.....80°C  
**Differential Pressure (max)**.....4.1 bar at 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

GHLS	Rating ( $\mu$ )	Retention	Length	C	End Cap Style	O-Rings/Gaskets	-	Ad ders
	0.45	A = Absolute	10" (25.4 cm)		2 = DOE Flat Gasket	B = Buna		CS = 316SS Compression Spring
	1.0	N = Nominal	20" (50.8 cm)		3 = 222 w/ Fin	E = EPDM		FG = Glass Reinforced PP Core
	2.0		30" (76.2 cm)		4 = 222 w/ Flat	S = Silicone		HP = Heavy Poly Core
	5.0		40" (101.6 cm)		5 = 222 w/ Spring	V = FKM		I = Stainless Steel Insert
	10.0		*		6 = 226 w/ Flat	Z = FEP Silicone		R = 18 Megaohm Rinse <sup>1</sup>
	20.0				7 = 226 w/ Fin	T = FEP FKM (if O-ring and PTFE if DOE)		SS = Stainless Steel Core
	40.0				8 = 226 w/ Spring			
	*				16 = 213 Internal O-Ring			
					28 = 222 3-tabs w/ Fin			

\* Other options on request

<sup>1</sup> Made by Global Filter US in the USA

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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