



#### **GLASSFLOW® FILTER CARTRIDGES**

Super-fine glass microfiber filters for pre-filtration and final filtration of liquids

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# SUPER-FINE GLASS MICROFIBER FILTERS FOR PRE AND FINAL FILTRATION OF LIQUIDS

GlassFlow® Filter Cartridges are composed of super-fine glass fiber media with a pre-layer constructed of polypropylene for use during pre-filtration and final filtration. Glass fiber media has an inherently absorptive characteristic that enhances filter retention capability. These filters are ideally suited in the filtration of liquids containing gels, lipids, and proteins.

FEATURE	BENEFIT			
Super-fine glass	High porosity for high flow rates and low pressure drops			
micro-fiber membrane with built-in polypropylene pre-filtration layer	>97% particle retention efficiency at rated pore size  Stiff structure of glass micro-fiber media provides high flow rate			
	Extremely good chemical compatibility			
QUALITY STANDARDS				
Quality Assurance	These products are manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and traceable with unique serial number.			
TOC / Conductivity at 25°C	Autoclaved filter effluent meets the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush or specified volume.			
Particle Shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume injections			
Non-Fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)			
Bacterial Endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determine by Limulus; Amebocyte Lysate (LAL), USP <85>.			
USP <87> Cytotoxicity	Meet the requirement of USP <87> In Vitro Cytotoxicity Test			
USP <88> Biological Toxicity	Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121 plastics.			
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177–182, and EU framework regulation [1935/2004/EC].			



#### **Typical Applications**

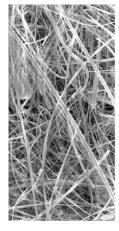
- Blood Products
- · High Viscosity Liquids
- Serums
- Prefilter for Liquids

# **SPECIFICATIONS**

Filter media	Glass Microfiber				
Support layer	Polypropylene				
Supports/core/cage/end caps	Polypropylene				
0-rings	ilicone, EPDM, FKM, FEP/PFA encapsulated FKM				
O-ring insert	РВТ				
Diameter	69 mm				
Effective filtration area	0.26 - 0.29 m² (2.8 - 3.1 ft²)/ 10 inch				
Max. operating temperature	80°C				
Max. operating pressure	0.69 MPa (6.0 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C				
Max. differential pressure	Forward: 0.69 MPa (6.0 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C Reverse: 0.30 MPa (3.0 bar, 44 psi) at 25°C 0.10 MPa (1.0 bar, 15 psi) at 80°C				
Inline steam sterilization	up to 30 cycles for 30 min. at 135°C at <0.3 bar per cycle				

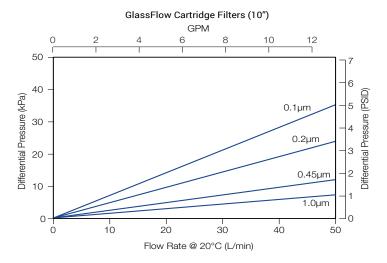
# RETENTION

Particle Range	Filter Code					
	<b>0020</b> (0.2μm)	<b>0045</b> (0.45 μm)	<b>0100</b> (1 μm)	<b>0500</b> (5 μm)	<b>0600</b> (6 μm)	
≥0.2 µm	97.94%	92.76%	-	-	-	
≥0.5 µm	98.99%	97.89%	88.59%	-	-	
≥1.0 µm	100%	100%	97.87%	78.86%	-	
≥2.0 µm	100%	100%	99.99%	89.45%	74.32%	
≥5.0 µm	100%	100%	100%	97.99%	95.65%	
≥10.0 µm	100%	100%	100%	100%	100%	



SS Fiber Med

#### **FLOW RATES**



### **ORDERING INFORMATION**

EXAMPLE: **LGFP0045HSF10S-P** =  $0.45 \mu m$ , 226/Fin, 10'' filter with silicone seals

