



#### **GLASSGAS® FILTER CARTRIDGES**

Super-fine glass microfiber filters for pre-filtration of gases

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# SUPER-FINE GLASS MICROFIBER FILTERS FOR PRE FILTRATION OF GASES

GlassGas® Filter Cartridges are composed of super-fine glass fiber media with a contaminant holding capacity of over 90%. They are highly recommended for the pre-filtration of gases as an effective protection of final sterilizing-grade filters to increase their service life.

FEATURE	BENEFIT
Super-fine glass micro-fiber membrane	High porosity for high flow rates and low pressure drops
	>90% particle retention efficiency at rated pore size
	Stiff structure of glass micro-fiber media provides high flow rate
	Glass fiber media has high contaminant holding capacity and inherently adsorptive effect for high retention efficiency
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 of 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 determined 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 $^{\circ}\text{C}$ 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].
SPECIFICATIONS	
Filter media	Super-fine Glass Microfiber
Support layer	Polypropylene
Supports/core/cage/end caps	Polypropylene
0-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
O-ring insert	PBT

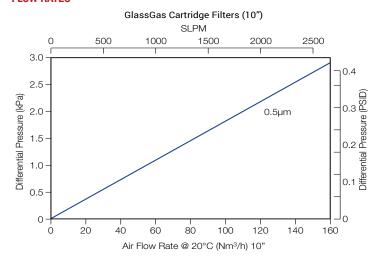


## **Typical Applications**

- Antibiotic Fermented Air
- · Compressed Air
- Bio-engineered Fermented Air
- Pre-Filtration

Diameter	69 mm
Effective filtration area	0.34 m² (3.7 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 40 cycles for 30 min. at 121°C at <0.3 bar (5 psi) per cycle

#### **FLOW RATES**





**Glass Fiber Media** 

## **ORDERING INFORMATION**

EXAMPLE: **GGFP0001HSF10S-P** = 0.01  $\mu$ m, 226/Fin, 10" filter with silicone seals

