

GASCLEAN® GF FILTER CARTRIDGES

SUPER-FINE GLASS MICROFIBER FILTERS RECOMMENDED FOR PRE-FILTRATION OF GAS FOR USE IN FOOD AND BEVERAGE APPLICATIONS WITH ASEPTIC REQUIREMENTS

GasClean® Filter Cartridges are composed of super-fine glass microfiber with high contaminant-holding ability. They are highly recommended for the pre-filtration of gas for effective protection of sterilizing grade membrane filters to significantly increase service life.

FEATURE	BENEFIT
Super-fine glass fiber membrane	High porosity for high flow rates and low pressure drops >90% particle retention efficiency Protects final sterilizing grade air filters for long service life
Quality Assurance	Manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and lot traceable.
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177–182.

SPECIFICATIONS

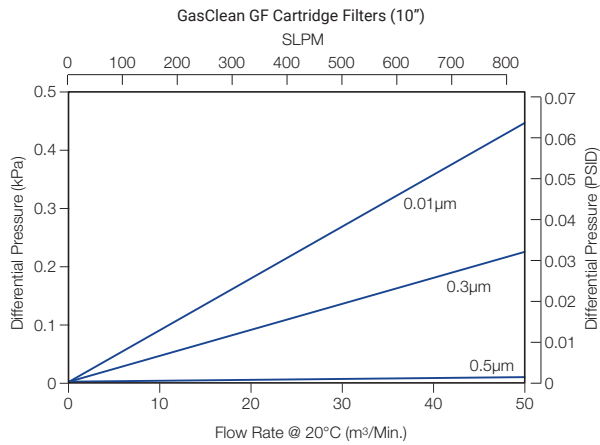
Filter media	Super-fine Glass Fiber														
Supports/core/cage/end caps	Polypropylene														
O-ring internal support	PBT, SS (316L)														
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM														
Effective filtration area	0.01, 0.3 µm: 0.4 m ² (4.3 ft ²)/ ∅71-10 in. 0.5 µm: 0.34 m ² (3.7 ft ²)/ ∅71-10 in.														
Cartridge diameter	71 mm (2.8 in.)														
Max. operating temperature	80°C														
Max. differential pressure	<table border="0"> <tr> <td>0.01, 0.3 µm:</td> <td>0.5 µm:</td> </tr> <tr> <td>Forward:</td> <td>Forward:</td> </tr> <tr> <td>0.40 MPa (4.0 bar, 58 psi) at 21°C</td> <td>0.69 MPa (6.9 bar, 100 psi) at 25°C</td> </tr> <tr> <td>0.24 MPa (2.4 bar, 35 psi) at 70°C</td> <td>0.24 MPa (2.4 bar, 35 psi) at 80°C</td> </tr> <tr> <td>Reverse:</td> <td>Reverse:</td> </tr> <tr> <td>0.20 MPa (2.0 bar, 29 psi) at 21°C</td> <td>0.30 MPa (3.0 bar, 44psi) at 25°C</td> </tr> <tr> <td></td> <td>0.10 MPa (1.0 bar, 14.5 psi) at 80°C</td> </tr> </table>	0.01, 0.3 µm:	0.5 µm:	Forward:	Forward:	0.40 MPa (4.0 bar, 58 psi) at 21°C	0.69 MPa (6.9 bar, 100 psi) at 25°C	0.24 MPa (2.4 bar, 35 psi) at 70°C	0.24 MPa (2.4 bar, 35 psi) at 80°C	Reverse:	Reverse:	0.20 MPa (2.0 bar, 29 psi) at 21°C	0.30 MPa (3.0 bar, 44psi) at 25°C		0.10 MPa (1.0 bar, 14.5 psi) at 80°C
0.01, 0.3 µm:	0.5 µm:														
Forward:	Forward:														
0.40 MPa (4.0 bar, 58 psi) at 21°C	0.69 MPa (6.9 bar, 100 psi) at 25°C														
0.24 MPa (2.4 bar, 35 psi) at 70°C	0.24 MPa (2.4 bar, 35 psi) at 80°C														
Reverse:	Reverse:														
0.20 MPa (2.0 bar, 29 psi) at 21°C	0.30 MPa (3.0 bar, 44psi) at 25°C														
	0.10 MPa (1.0 bar, 14.5 psi) at 80°C														
Steam sterilization	up to 20 cycles for 30 minutes at 145°C (< 0.3 bar, 5 psi) steam saturation														
Hot water sterilization	up to 50 cycles for 30 minutes at 85°C														
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.														
Non-fiber release	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR210.3 (b) (6).														
Bacteria endotoxin	Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>.														
USP <88> biological toxicity	Meets the criteria of the USP <88> Biological Reactivity Test for Class VI-121 °C plastics.														



Typical Applications

- Sterile Gas Pre-Filtration
- High Temperature Gas Processes

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **GCGF0001HSF10S-F** = 0.01 µm, 226/Fin, 10" filter with silicone seals

GCGF



Removal Rating
Gas Filtration
0001 = 0.01 µm
0030 = 0.3 µm
0050 = 0.5 µm



Connection
DOE = Double Open End, flat gasket
HTC = 222 O-ring/Flat (PBT Insert)
HTF = 222 O-ring/Fin (PBT Insert)
HSF = 226 O-ring/Fin (PBT Insert)
HSC = 226 O-ring/Flat (PBT Insert)
SSF = 226 O-ring/Fin (SS Insert)
SSC = 226 O-ring/Flat (SS Insert)
STF = 222 O-ring/Fin (SS Insert, 3 Tabs)



Nominal Length
05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"



-F

Seal Material
S = Silicone
E = EPDM
V = FKM
P = E-FKM (FEP/PFA encapsulated FKM)



BANNER INDUSTRIES IS THE EXCLUSIVE DISTRIBUTOR FOR COBETTER PRODUCTS IN THE USA
Visit www.bannerindustries.com and select the Contact Us link to find the location nearest you. The Banner Industries of N.E., Inc. Terms and Conditions of Sale apply and are fully and expressly incorporated herein by reference and constitute a part of any contract for the purchase of the products described herein.

www.bannerindustries.com | Technical Sales: filtration@bannerindustries.com

CBBPP1060 Rev. 08192020

Copyright © 2019 Banner Industries, Inc. All rights reserved.
GasClean® is a registered trademark of Cobetter Filtration Equipment Co., Ltd.