

TefloGas® Filter Cartridges

Hydrophobic PTFE Membrane · Sterile Gas Filter

TefloGas® Filter Cartridges are composed of a hydrophobic PTFE membrane and a thick thermal-resistance polypropylene core. They are characterized by a high filtration area and non-metallic ion release and are easy to clean when compared to filters with a stainless steel core. As a result, they are highly recommended for air and gas sterile filtration of biological liquids and fermentation and pharmaceutical industries.

Features and Benefits

- Inherently hydrophobic
- Exceptionally high flow rates with low pressure drops

Quality Standards

- Bacterial quantitative retention of 10⁷ CFU/cm² Brevundimonas Diminuta (ATCC 19146) according to ASTM F838 methodology.
- 100% Integrity testing in manufacturing.
- Each filter is fully traceable with unique serial number.
- Manufactured in a facility which adheres to ISO 9001: 2015 Practices.
- Full Regulatory Compliance with following:
 - Bacterial Endotoxin: Aqueous extraction of autoclaved filter contains <0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL), USP<85>.
 - Non-fiber Releasing: Component materials meet the criteria for a " Non-fiber-releasing filter " as defined in 21 CFR 210.3(b)(6).
 - Component Material Toxicity:
 - Meet the requirement of USP <87> In Vitro Cytotoxicity Test ;
 - Meet the Criteria of USP<88> Biological Reactivity Test for Class VI-121°C plastics
 - TOC/Conductivity at 25°C: Autoclaved filter effluent meet 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 meet the USP<788> for large volume Injections .
 - 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

- Aseptic Packaging
- Compressed Air and Nitrogen Gas Sterilization
- Corrosive Gases Sterilization
- Vent Filtration



Materials of Construction

Filter Media	Hydrophobic PTFE Membrane
Support	Polypropylene
Core/Cage/End Caps	Polypropylene

Operating Conditions

Max. Operating Pressure	6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C
Max. Differential Pressure	Forward 6.9 bar (100 psi) at 25 °C 4.0 bar (58 psi) at 60 °C 2.4 bar (35 psi) at 80 °C Reverse 3.0 bar (44 psi) at 25 °C 1.0 bar (15 psi) at 80 °C
Effective Filtration Area	0.68m ² / Φ 68-10 inch

Sterilization

In-line Steam Sterilization	Up to 100 forward cycles and 50 reverse cycles (145°C for 30min <0.3bar per cycle)
Autoclave	up to 400 cycles (130°C for 30min for every cycle)

Integrity Test Data

GPFMP

Bubble Point	BP : ≥0.1Mpa (60%/40%IPA/Water)
Diffusion Flow	DF : ≤24ml/min/10" cartridge @ 80KPa(60%/40%IPA/Water)
Water Intrusion Test	WFT : ≤0.75ml/min/10" cartridge @ 0.25MPa

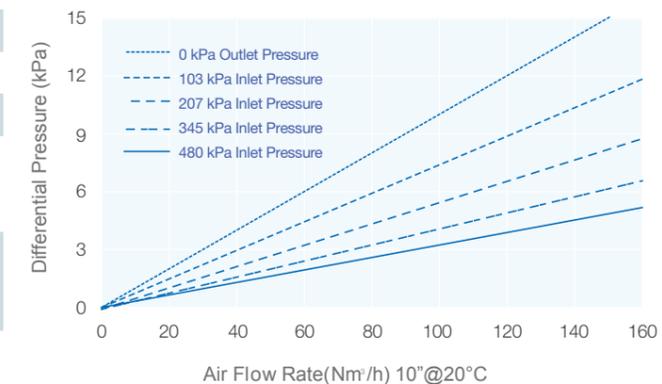
GPFP

Bubble Point	BP : ≥0.11Mpa (60%/40%IPA/Water)
Diffusion Flow	DF : ≤16ml/min/10" cartridge @ 80KPa(60%/40%IPA/Water)
Water Intrusion Test	WFT : ≤0.38ml/min/10" cartridge @ 0.25MPa

Ordering Information

GPFMP GPFP	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
	0001 = 0.01 μm	HSF = 226/Fin (PBT Insert)	05 = 5"	S = Silicone	
	0022 = 0.22 μm	HSC = 226/Flat (PBT Insert)	10 = 10"	E = EPDM	
		HTF = 222/Fin (PBT Insert)	20 = 20"	V = Viton	
		HTC = 222/Flat (PBT Insert)	30 = 30"	P = PFA/Viton	
		DOE = Double Open End	40 = 40"		

Flow Rate Characteristics



Sterile Filtration
Bio-burden Reduction
Pre-Filtration
All-Fluorine Filters
Capsule Filters

Nordic Filtration

At www.nordicfiltration.com you will find a wide selection of filtration products ready for you to order.

Nordic Filtration offers a wide selection of filtration products for water treatment. We have stock in Denmark from where we distribute all of our products to Scandinavia and the the rest of the world.

You can buy our products on local websites or by contacting us by phone or e-mail. Information about our products as well as brochures and manuals can be found on our website (www.nordicfiltration.com).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you.

