

Hall Pyke

Membrane Filtration

Teflonflow

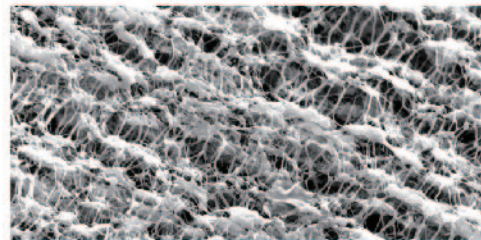
The SMART choice for filtration

TeflonFlow® Filter Cartridges

Hydrophobic PTFE membrane · Sterilizing Grade



Cobetter **TeflonFlow**® Filter Cartridges are composed of hydrophobic PTFE membrane. Its features include exceptional organic & inorganic corrosion resistance and inherently hydrophobicity. They are highly recommended for the pre-filtration and sterile filtration of strong solvents, highly corrosive fluids, strong oxidant fluids and critical air venting applications.



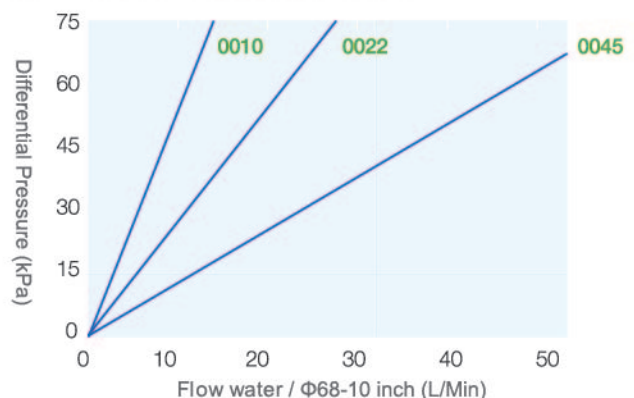
Features and Benefits

- Inherently hydrophobicity
- Broad chemical compatibility
- High tolerance of aggressive acids and bases
- High flow rates
- Low extractables
- 100% Integrity Test

Typical Applications

- Organic-based Antibiotic Liquids
- API
- Solvents
- Air Venting

Flow Rate Characteristics



Test Criteria: single length (254mm) cartridge, water @20°C.

Validated Hydrophobic PTFE Membrane Filter for Pharmaceutical Applications

Materials of Construction

Filter Medium	Hydrophobic PTFE Membrane
Support Layer	Polypropylene
Core/Cage/End Caps	Polypropylene
O-Rings	Please refer to ordering information
Effective Filtration Area	0.74-0.96 m / Φ68-10 inch

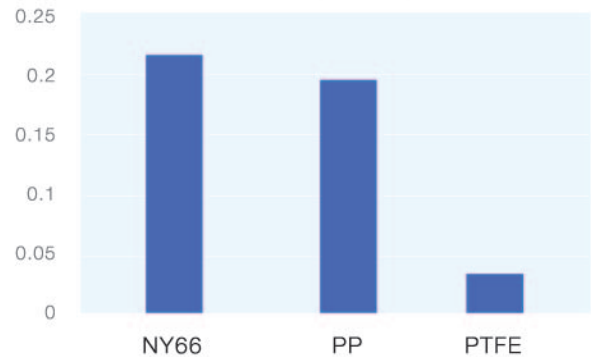
Quality and Biological Safety

- 100% integrity tested
- Manufactured under a quality management system certified to ISO9001:2008
- Meets USP Biological Reactivity Test, in vivo, for Class VI-121 °C Plastics
- Every filter tested during manufacture. Test correlated to microbial retention
- Bacterial Endotoxins (< 0.25 EU/mL)
- Extractables < 30mg per 10 inch
- Certificate of Test provided includes:
 - Fabrication Integrity
 - Bacterial Retention
 - Materials of constructions
 - Effluent quality for cleanliness, TOC and Water Conductivity, pH and Pyrogens

Operating Conditions

Max. Operating Temperature	90°C
Max. Differential Pressure	4 bar / 21°C 2.1 bar / 80°C
Steaming Sterilize(Autoclave)	121°C / 30min

Nonvolatile Residue (NVR) Extractable



Comparison of NVR in Acetone

Integrity Testing Parameters

Bubble Point (0.22µm)	≥1100 mbar in alcohol or with 60/40 % IPA/water @20 °C
Diffusion Flow (0.22µm)	≤16ml/min/10" cartridge @ 800mbar@20 °C
WFT(0.22µm)	≤0.38ml/min/10" cartridge @2500mbar

Ordering Information

LPF	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
Hydrophobic PTFE	0002=0.02 µm 0045=0.45 µm	DOE=Double Open End	05=5"	S=Silicone	
	0005=0.05 µm 0100=1.0 µm	HTC=222 /Flat (PBT Insert)	10=10"	E=EPDM	
	0010=0.1 µm 0300=3.0 µm	HTF=222 /Fin (PBT Insert)	20=20"	V=Viton	
	0022=0.22 µm 0500=5.0 µm	HSF=226 /Fin (PBT Insert)	30=30"		
		HSCA=226 /Flat (PBT Insert)	40=40"		

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