

PFA Filter Cartridges

All Fluoropolymer Constructed

COBETTER PFA Filter Cartridges are composed of an expanded PTFE membrane and PFA cage, core and support. These filters are specially designed for applications with extremely aggressive environments including strong acids, alkalis and solvents and high temperatures.

Among this series filters, validated sterile grade is also available, named as PFAT which is highly recommended for strict pharmaceutical applications.

Features and Benefits

- 100% all Fluoropolymer construction
- High filtration performance including high flow rates and low pressure drops
- Available in pre-wetted package if requested

Quality Standards

- 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

- Corrosive Acids, Alkalis and Solvents
- High Temperature Applications
- Air and Liquid Oxidization



Materials of Construction

| | |
|----------------------|---|
| Filter Media | Hydrophobic Polytetrafluoroethylene (PTFE) |
| Cage/Support | PFA |
| Core/End Caps | PFA |
| O-ring | PFA encapsulated Viton, Silicone, EPDM, All-fluoropolymer |

Operating Conditions

| | |
|--|--|
| Max. Continuous Operating Temperature | 170°C |
| Max. Differential Pressure | Forward 0.69 MPa @ 25 °C |
| | 0.40 MPa @ 60 °C |
| | 0.24 MPa @ 80 °C |
| | Reverse 0.30 MPa @ 25 °C |
| | 0.10 MPa @ 80 °C |
| Max. Operating Pressure | 0.69 MPa @ 25 °C |
| | 0.40 MPa @ 60 °C |
| | 0.24 MPa @ 80 °C |
| Effective Filtration Area | 0.91m ² (9.8 ft ²) / Φ 68-10 inch |

Sterilization

| | |
|-----------------------------------|--|
| Inline Steam Sterilization | Up to 15 cycles for 30 minutes at 135 °C (< 0.3 bar, 5 psi). |
| Autoclaving | up to 15 cycles (130°C for 30min per cycle) |

Integrity Test Data

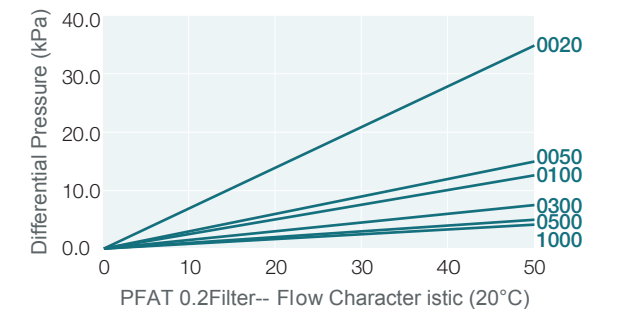
| | |
|---------------------|---|
| Bubble Point | BP : ≥ 1.0 bar (15 psi) in 60% isopropanol (IPA) 40% water, air, PFAT |
|---------------------|---|

Ordering Information

| PFA PFAT | Removal Ratings | End Cap | Nominal Length | Seal Material | Package | -P |
|---------------|--|---------|----------------------------|----------------|---------|----|
| 0005 = 0.05µm | TC = 222 / Flat | 03= 3" | P = PFA encapsulated Viton | Blank=Standard | | |
| 0010 = 0.1µm | SC = 226 / Flat | 04= 4" | S = Silicon | W=Pre-wetted | | |
| 0020 = 0.2µm | SF = 226 / Fin | 10=10" | E = EPDM | | | |
| 0045 = 0.45µm | FSSC = 226 / Flat (SS internal support) | 20=20" | K = All-fluoropolymer | | | |
| 0100 = 1.0µm | FSTC = 222 / Flat (SS internal support) | 30=30" | | | | |
| 0500 = 5.0µm | | | | | | |
| 1000 = 10µm | | | | | | |

- PFAT available in 0.22µm only.
- PFA filter is not 100% integrity tested, it is designed as a pre-filter or final filter when validation and sterility guarantee are not necessary.
- Please Select the SS insert end cap if the filter will be sterilized by SIP.

Flow Rate Characteristics



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