

PureFlo® Glass MicroFiber Filter Cartridges

PureFlo® borosilicate microfiber filter cartridges are highly retentive filters that have a pleated design to maximize surface area. The borosilicate microfiber media in an all polypropylene construction provides excellent chemical compatibility and superior flow per surface area. No adhesives or surfactants are used in the manufacturing process. The borosilicate microfiber is “non-fiber releasing.”

The borosilicate microfiber is ideally-suited for microbial reduction. In addition, the media provides superior flow and pressure drop characteristics per unit area. PureFlo microfiber filter cartridges are well-suited for critical applications where superior flow and particle retention for deformable and non-deformable particle removal is required.



Materials of Construction

- Media: Borosilicate Microfiber
- Membrane Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- O-Rings: Silicone, EPDM, Viton, Buna N, TES, and TEV

Dimensions (nominal)

- Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (50 cm), 30 in. (76 cm), 40 in. (102 cm)
- Diameter: 2.75 in. (7 cm)

Effective Filtration Area

- 0.47 m2 (5.0 ft²) per 10" cartridge element

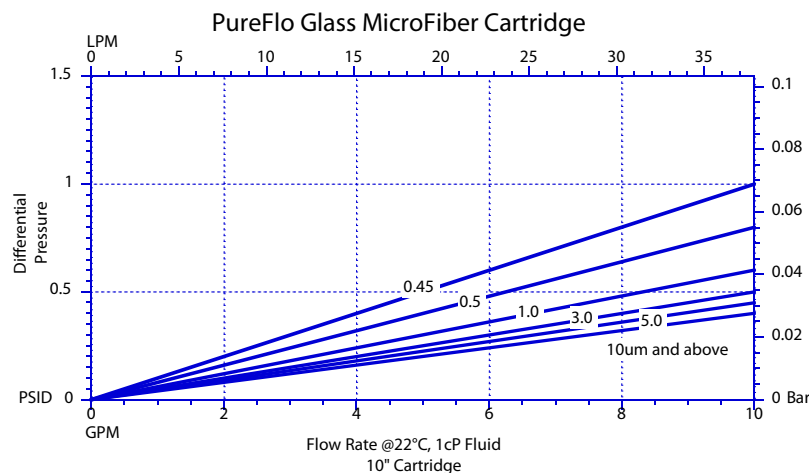
Operating Conditions

- Maximum Forward Differential Pressure:
 - 5.0 bar (72.5 psid) at 68°F/20° C
 - 2.0 bar (29 psid) at 176°F/80° C
- Maximum Reverse Differential Pressure:
 - 3.0 bar (43.5 psid) at 68°F/20° C
 - 1.0 bar (14.5 psid) at 176°F/80° C
- Maximum Operating Temperature: 176°F/80°C

Applications	
Prefiltration	Biologics
Serums	Bio-Burden Reduction
Pharmaceuticals	Retention of Deformable Particles
Wine Clarification	Inks
Food & Beverage	Cosmetics

Features	Benefits
Borosilicate Microfiber media	High dirt-loading capacity Superior filter lifetime and process throughputs
Wide Chemical & Thermal Compatibility	Provides excellent compatibility with a wide range of chemicals No media migration into the process fluid
Quality Construction	No adhesives, binders, or surfactants are used during the manufacturing process resulting in superior downstream cleanliness Thermally welded construction to eliminate bypass

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SPECIFICATIONS

Regulatory Compliance

Manufactured from materials that conform to the requirements of USP Class VI Biological Test for Plastics

Sterilization & Autoclaving

The filters can be sterilized by autoclaving for up to 25 cycles at 257°F/125°C. The filters can also be sterilized by steam-in-place procedure up to 10 cycles at 275°F/135°C for 30 minutes at less than 0.3 bar differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

PureFlo Glass Microfiber Filter Cartridge Ordering

Glass Fiber Membrane Type	Pore Size (micron)	Connections	Length	Gasket / O-Ring Materials	Package Quantity	Inserts
NCG	04 = 0.45 05 = 0.5 10 = 1.0 30 = 3.0 50 = 5.0 1X = 10	0 = 222 O-Ring Flat 5 = 222 O-Ring Spear 6 = 226 O-Ring Flat 7 = 226 O-Ring Spear F = DOE Flat Gasket S = SOE Flat Gasket Z = SOE Internal 213 O-Ring Flat **	1 = 10" 2 = 20" 3 = 30" 4 = 40" 5 = 5" 9 = 9.75"	E = EPDM N = Buna N S = Silicone V = Fluro-Elastomer T = TEV * U = TES *	1 = 1 per pack	Blank = Standard 5 = Stainless Steel Insert
Example - 20", 0.20 micron, with 2-222 EPDM O-Rings/Flat Cap and no insert would be NCG2002E1						
* - not available in Code Z ** - only available in 5", 10", and 20"						