

PureFlo[®] Natural Glass Microfiber Cartridges

PureFlo[®] Natural Glass Microfiber Cartridges are highly retentive filters that have a pleated design for liquid applications. The media is hydrophilic, allowing for easier wetting of the borosilicate microfiber media. The filter is made with an all polypropylene construction providing excellent chemical compatibility and superior flow per surface area. The borosilicate microfiber media is binder free and "non-fiber releasing."

The natural borosilicate microfiber is ideally-suited for microbial reduction in aqueous applications. In addition, the media provides superior flow and pressure drop characteristics per unit area. PureFlo[®] Natural Glass Microfiber Cartridges are well-suited for critical applications where superior flow and retention of particles is required.



Applications

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

Materials of Construction:

Media: Natural Borosilicate Microfiber
 Membrane Supports: Polyester
 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. (51 cm), 30 in. (76 cm), 40 in. (102 cm)
 Diameter: 2.75 in. (70 mm)

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 22 °C
 2.0 bar (29 psid) at 80 °C
 Maximum Reverse Differential Pressure:
 3.0 bar (43.5 psid) at 22 °C
 1.0 bar (14.5 psid) at 80 °C
 Maximum Operating Temperature: 80 °C

Features

Benefits

<ul style="list-style-type: none"> ■ Natural Borosilicate Microfiber Media (Hydrophilic) 	<ul style="list-style-type: none"> ■ High dirt-loading capacity ■ Superior filter lifetime and process throughputs ■ Easier wetting
<ul style="list-style-type: none"> ■ Wide Chemical & Thermal Compatibility 	<ul style="list-style-type: none"> ■ Provides excellent compatibility with a wide range of chemicals ■ No media migration into the process fluid
<ul style="list-style-type: none"> ■ Quality Construction 	<ul style="list-style-type: none"> ■ No adhesives, binders, or surfactants are in the final product resulting in superior downstream cleanliness ■ Thermally welded construction to eliminate bypass

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Specifications (cont.)

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 125 °C (257 °F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 10 cycles at 135 °C (275 °F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

PureFlo[®] Natural Glass Microfiber Cartridge Ordering Guide

PureFlo Natural Glass Microfiber Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Options
NCNG = Natural Glass MicroFiber w/ PP Construction	05 = 0.5 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1 = 1pc/ pack	Blank = Standard - 5 = SS Insert
	10 = 1 micron	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N	6 = 6pc/ pack (for 10" and 20" only)	
	30 = 3 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM		
	50 = 5 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
		7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
8 = 223 O-Ring Flat		9 = 9.75"	T = TEV or FEP Gasket			
	B = 1.5" Tri Clamp Flat		U = TES*	V = Fluoroelastomer		
	F = DOE Flat Gasket		0 = O-ringless			
	S = SOE Flat Gasket					
	Z = SOE Internal O-ring Flat **					
Example - Natural Glass MicoFiber Cartridge, 10", 3um, 222 Silicone o-rings, Flat end cap, and no insert would be					001S1	
* - not available in Code Z		** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings				

Your Local Distributor:

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