

## PureFlo® Hi Temp Glass Microfiber Cartridges (Glass Microfiber w/ Hi Temp PP and SS core)

PureFlo® Hi Temp Glass Microfiber Cartridges are highly retentive filters that have a pleated design to maximize surface area. The construction is with a high temp PP resin and a stainless steel core for longer life in elevated temperatures. The borosilicate microfiber media with 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 retention of deformable and non-deformable particles is required.



### Materials of Construction:

- Media: Borosilicate Microfiber
- Membrane Supports: Polypropylene
- Cage, End Caps: Polypropylene
- Core: Stainless Steel
- 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 m<sup>2</sup> (5.0 ft<sup>2</sup>) per 10" cartridge element

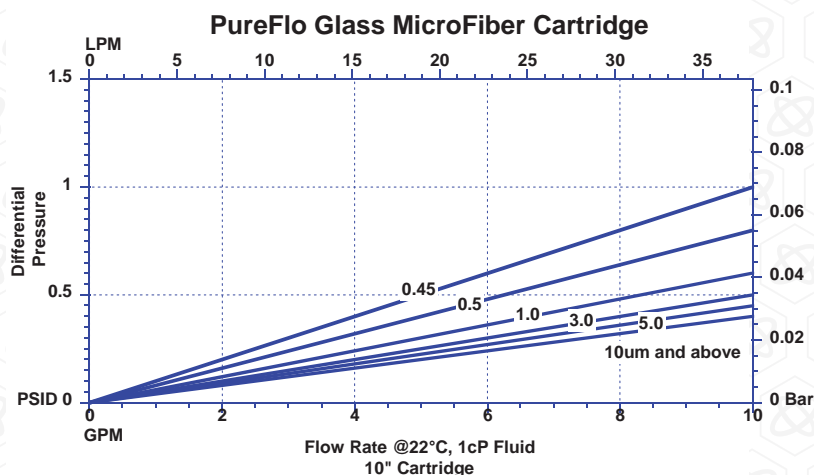
### Operating Conditions:

- 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: 90 °C

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

Features	Benefits
<ul style="list-style-type: none"> <li>■ Borosilicate Microfiber media</li> </ul>	<ul style="list-style-type: none"> <li>■ High dirt-loading capacity</li> <li>■ Superior filter lifetime and process throughputs</li> </ul>
<ul style="list-style-type: none"> <li>■ Wide Chemical &amp; Thermal Compatibility</li> </ul>	<ul style="list-style-type: none"> <li>■ Longer lifetime in higher temperatures</li> <li>■ No media migration into the process fluid</li> </ul>
<ul style="list-style-type: none"> <li>■ Quality Construction</li> </ul>	<ul style="list-style-type: none"> <li>■ No adhesives, binders, or surfactants are used during the manufacturing process resulting in superior downstream cleanliness</li> <li>■ Thermally welded construction to eliminate bypass</li> </ul>

## PureFlo<sup>®</sup> Hi Temp Glass Microfiber Cartridges



### 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 150 cycles at 125 °C (257 °F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 150 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<sup>®</sup> Hi Temp Glass Microfiber w/ SS core Cartridge Ordering Guide

PureFlo Glass Micro-fiber Filter Cartridges	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Options			
NSG = Glass MicroFiber W/ Stainless Steel core and High Temp PP Construction	H = HEPA	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1 = 1pc/ pack 6 = 6pc/ pack (for 10" and 20" only)	Blank = Standard - 5 = SS Insert			
	U = ULPA	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N					
	02 = 0.2 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM					
	04 = 0.45 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon					
	05 = 0.5 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone					
	10 = 1 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket					
	30 = 3 micron	F = DOE Flat Gasket		U = TES*					
	50 = 5 micron	S = SOE Flat Gasket		V = Fluoroelastomer					
	1X = 10 micron	Z = SOE Internal O-ring Flat **							
	2X = 20 micron								
	3X = 30 micron								
	Example - Glass MicroFiber Cartridge with SS core and high Temp PP construction, 10", 3um, with 2-222 Silicone o-ring, Flat end cap, and SS insert would be NSG3001S1-5								
	* - not available in Code Z      ** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings								

Your Local Distributor:

### ZenPure

North & South Americas:  
ZenPure Americas, Inc  
www.zenpure.com  
Info-us@zenpure.com  
703-335-9910

All Other Regions:  
ZenPure Corporation  
www.zenpure.com  
info@zenpure.com  
+86 571 2288 6800



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