



Specifications

Media	: Polyethylene and Polypropylene
End Parts	: Polypropylene
O-ring	: NBR, EPDM, Silicone, FKM (Fluorine Rubber) E-FKM (Encapsulated Fluorine Rubber)

Filtration rate

Nominal	: 1, 3, 5, 10, 25, 50, 75, 100 micron
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Dimension

Double open ended:

ID x OD x Length

1.18" x 2.44" x 4.88", 5", 9.75", 10", 19.5",
20", 29.25", 30", 39", 40"

Single open ended:

ID x OD x Length

0.98" x 2.76" x 10", 20", 30", 40"

Operating Conditions

Maximum Operating Temperature:

80°C (175°F)

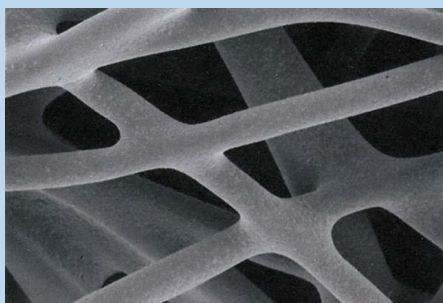
Replacement Differential Pressure:

22psi

Maximum Differential Pressure:

80psi @ 20°C (68°F)

* depending on operating parameters



CLEAL[®]

GF FILTER Cartridges

Self-Bonding Binder-Free Cartridge Filter

Features

Structure

Only polyolefin thermally bonded bi-component fibers (ES fibers) are used, and the fiber-to-fiber bond forms a stable porosity.

Advantages

- The ES fibers uniquely developed and patented by JNC are used, and the fiber-to-fiber bond at each contact point featuring integral rigid thermally bonded construction enables consistent filtration and eliminates pore size variability and media migration.
- The density graded construction provides long service life.
- The simple but clean and rigid structure utilizing state-of-the-art fiber technology allows for longer service life and higher throughputs.
- A rigid filter structure of fused ES fibers in a three dimensional network with a high tolerance for differential pressure is achieved.
- The diameter of the structural fibers is changed for every grade, and the grades are clearly differentiated from a nominal filtration size of 1µm to 100µm.
- FDA approved materials are used, enabling clean filtration.

Quality

- GF medium Complies with CFR 21 FDA regulations
- Complies with RoHS regulations
- Complies with REACH regulations
- NSF certified elements of DOE type
- Production at ISO 9001 certified factory
- Production at ISO 14001 certified factory

Application

General Industry :

Cleaning water, pre-filter for ultra pure water etc.

Chemicals :

Paint, Ink, Resins, Adhesives, Catalysts, Solvents, Surfactants etc.

Food & Beverages :

Tea, Juices, Wine, Spirits, Soy sauce, Soups, Vinegar, Syrup etc.

Electronics :

Pure water, Optical films, PCB, FPC, Shadow masks, Lead frames, TAB, Electrolyzed copper foils, Ceramic capacitors , Resist etc.

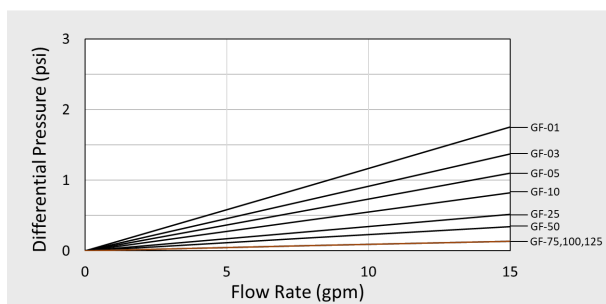
Filter Rating

Grade	Nominal rating	Absolute rating
GF-01	1 μm	15 μm
GF-03	3 μm	20 μm
GF-05	5 μm	30 μm
GF-10	10 μm	40 μm
GF-25	25 μm	50 μm
GF-50	50 μm	70 μm
GF-75	75 μm	90 μm
GF-100	100 μm	100 μm

※ Absolute rating values are only for the reference

Water Permeability

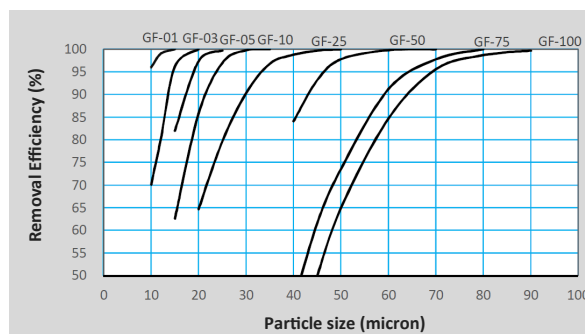
Flow Rate - Differential Pressure



※ per 10 inch, in water

Removal Efficiency

Initial Particle Removal Efficiency



※ tested by JNC method

Ordering Guide

Code information										Sales Unit				
Grade	Filter Rating		End Type & Seal Material		ID & OD (inch)	Length (inch)					SPQ (pcs/ctn)			
GF -	01	(1 μm)	(DOE) Blank (Blank)		30 - 62 - (1.18"x2.44")	124 (4.88")					100			
	03	(3 μm)				127 (5")					100			
	05	(5 μm)				248 (9.75")					50			
	10	(10 μm)				254 (10")					50			
	25	(25 μm)				496 (19.5")					25			
	50	(50 μm)				508 (20")					25			
	75	(75 μm)				743 (29.25")					25			
	100	(100 μm)				762 (30")					25			
						992 (39")					25			
						1016 (40")					25			
			(SOE)		25 - 70 - (0.98"x2.76")		(E3)	(E7)	(M3)	(M8)				
	E3 (222 O-ring with Flat End)		1 (NBR)	(10")		282	319	265	319	6				
	E7 (226 O-ring with Spear End)		2 (Silicone)	(20")		532	568	513	568	6				
	M3 (222 O-ring with Flat End)		3 (FKM)	(30")		777	814	762	814	6				
		M8 (222 O-ring with Spear End)		4 (E-FKM)	(40")			1030	1070	20				
				5 (EPDM)										
(SOE)														
Example : GF-10E72 25-70-814 (SPQ 6pcs)														
GF -	10		E7		2	25-70-	814				6			

* Description of each characteristic data is based on our original test methods. The actual data may differ slightly from the data shown here by use conditions.

* Please be reminded that we may change this content without advance notice.

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