



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
30mm x 62mm x 250, 500, 750, 1000 mm

Single open ended:
ID x OD x Length
25mm x 70mm x 10", 20", 30", 40"

Operating Conditions

Maximum Operating Temperature:
80°C (175°F)
Replacement Differential Pressure:
0.15MPa (22psi)
Maximum Differential Pressure:
0.55MPa (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
- Does not include substances subject to the RoHS Directive
- Does not include substances subject to the REACH regulation
- 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 :

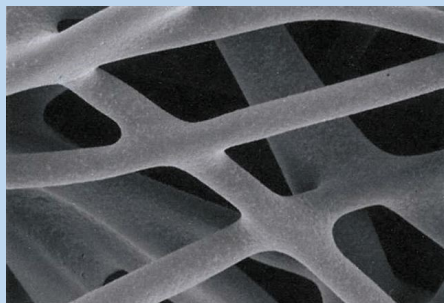
Paint, Ink, Resins, Adhesives, Catalysts, Solvents, Surfactants etc.

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.



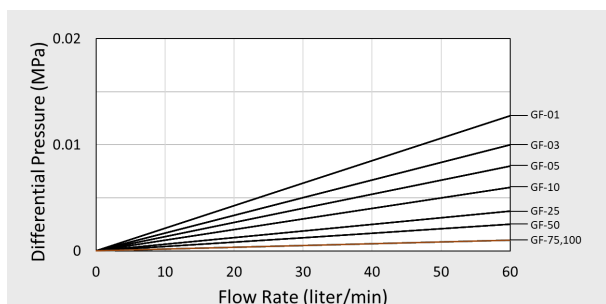
Filter Rating

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	35 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

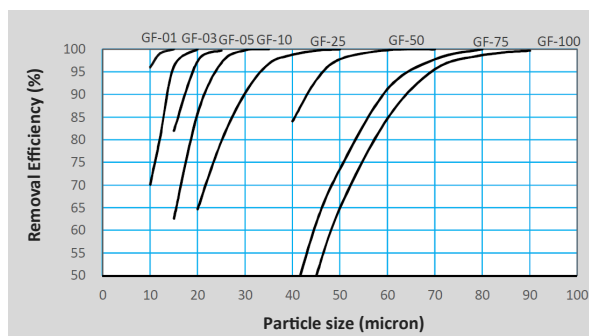
Flow Rate - Differential Pressure



※ per 250 mm, 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 (mm)	Length (mm)		SPQ (pcs/ctn)
GF -	01 (1 μm)	(DOE) Blank (Blank)		30 - 62 -	250		50
	03 (3 μm)				500		25
	05 (5 μm)				750		25
	10 (10 μm)				1000		25
	25 (25 μm)						
	50 (50 μm)						
	75 (75 μm)	(SOE) E3 (222 O-ring with Flat End) E7 (226 O-ring with Spear End) M3 (222 O-ring with Flat End) M8 (222 O-ring with Spear End)		25 - 70 -	(E3)	282, 532, 777	6
	100 (100 μm)				(E7)	319, 568, 814	6
					(M3)	265, 513, 762	6
						1030	20
						319, 568, 814	6
		1070	20				
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.
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