



## Specifications

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| Media      | : Polypropylene                                                                              |
| Support    | : Polypropylene                                                                              |
| Core, Cage | : Polypropylene                                                                              |
| End Parts  | : Polypropylene                                                                              |
| Sealing    | : NBR, EPDM, Silicone, PTFE<br>FKM (Fluorine Rubber)<br>E-FKM (Encapsulated Fluorine Rubber) |

## Filtration rate

Micron rate : 0.2, 0.4, 0.6,  
1, 3, 5, 7, 10, 15 micron

## Dimension

Double open ended:  
ID x OD x Length  
28mm x 70mm x 10", 20", 30", 40"

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:  
0.35MPa (51psi) @ 20°C (68°F)  
\* depending on operating parameters

# CLEAL<sup>®</sup> POROUSFINE

## PP Fiber Type Pleated Cartridge Filter

## Features

### Structure

CLEAL<sup>®</sup> POROUSFINE PP fiber type is a pleated cartridge filter made by processing JNC's original polypropylene fibers in the form of a membrane. Raw materials to assembly processing it is a superior filter that achieves long filter life and low pressure drops. Moreover, CLEAL<sup>®</sup> POROUSFINE does not contain adhesives and may also be used safely for food and beverages.

## Advantages

- Uniform pore size structure provides consistent filter ratings.
- There are no pore size changes and media migration.
- Lower pressure drop elongates filter service life is extended.
- Excellent chemical resistance.

## Quality

- Production at ISO 9001 certified factory
- Production at ISO 14001 certified factory

## Application

### Chemicals :

Various chemicals, Solvents

### General Industry :

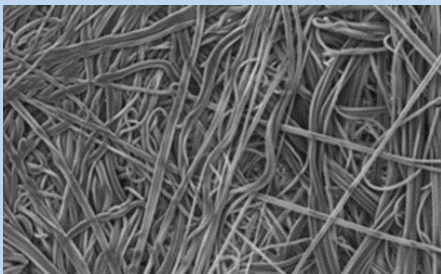
Pure water, Washing liquid (acid, Alkaline, IPA)

### Food & Beverages :

Drinking water, Liquor (beer, sake, and wine)

### Electronics :

Washing liquid (acid, Alkaline, IPA)



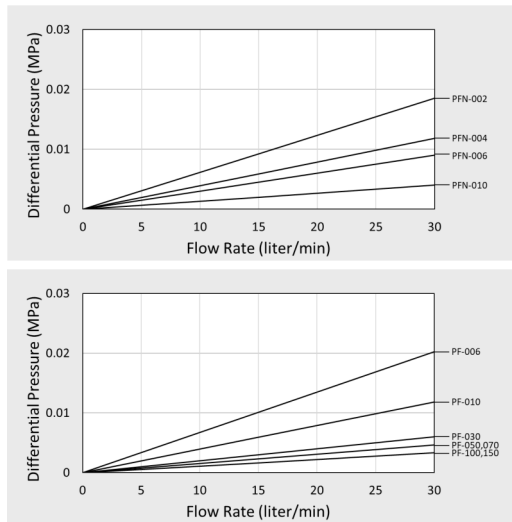
## Filter Rating

| Grade   | Nominal rating    | Absolute rating   | Media area               | Grade  | Absolute rating   | Media area               | Grade  | Absolute rating  | Media area               |
|---------|-------------------|-------------------|--------------------------|--------|-------------------|--------------------------|--------|------------------|--------------------------|
| PFN-002 | 0.2 $\mu\text{m}$ | 0.3 $\mu\text{m}$ | 4,800 $\text{cm}^2/10''$ | PF-006 | 0.6 $\mu\text{m}$ | 6,000 $\text{cm}^2/10''$ | PF-050 | 5 $\mu\text{m}$  | 5,200 $\text{cm}^2/10''$ |
| PFN-004 | 0.4 $\mu\text{m}$ | 0.5 $\mu\text{m}$ |                          | PF-010 | 1 $\mu\text{m}$   |                          | PF-070 | 7 $\mu\text{m}$  |                          |
| PFN-006 | -                 | 0.6 $\mu\text{m}$ |                          | PF-030 | 3 $\mu\text{m}$   |                          | PF-100 | 10 $\mu\text{m}$ |                          |
| PFN-010 | -                 | 1 $\mu\text{m}$   |                          |        |                   |                          | PF-150 | 15 $\mu\text{m}$ |                          |

※ Absolute rating values are only for the reference

## Water Permeability

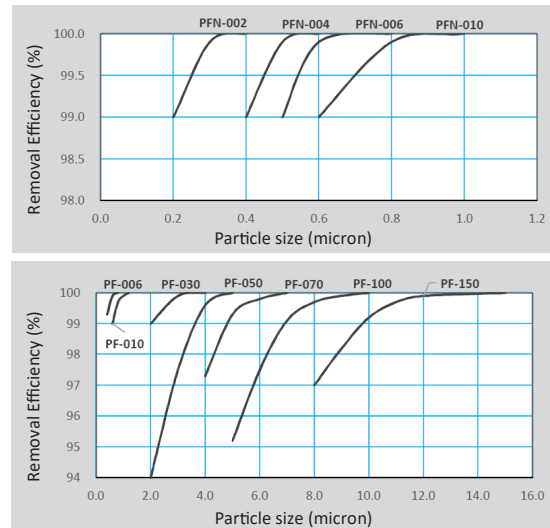
Flow Rate - Differential Pressure



※ 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) |     |   |  |   |  |
| PFN-             | 002 (0.2 μm)                             | (DOE)                          |  | 1 (NBR)<br>2 (Silicone)<br>3 (FKM)<br>4 (Soft PTFE)<br>5 (EPDM) | 28 - 70 -   | (G0)                                                                                | (10″) | 250           | 6   |   |  |   |  |
|                  | 004 (0.4 μm)                             | G0 (Flat Gasket End)           |                                                                                     |                                                                 |             | (20″)                                                                               | 496   | 6             |     |   |  |   |  |
|                  | 006 (0.6 μm)                             |                                |                                                                                     |                                                                 |             | (30″)                                                                               | 742   | 6             |     |   |  |   |  |
|                  | 010 (1.0 μm)                             |                                |                                                                                     |                                                                 |             |                                                                                     |       |               |     |   |  |   |  |
| PF-              | 006 (0.6 μm)                             | (SOE)                          |  | 1 (NBR)<br>2 (Silicone)<br>3 (FKM)<br>4 (E-FKM)<br>5 (EPDM)     | 25 - 70 -   | (E7)                                                                                | (10″) | 315           | 6   |   |  |   |  |
|                  | 010 (1 μm)                               | (20″)                          |                                                                                     |                                                                 |             |                                                                                     | 561   | 6             |     |   |  |   |  |
|                  | 030 (3 μm)                               | (30″)                          |                                                                                     |                                                                 |             |                                                                                     | 807   | 6             |     |   |  |   |  |
|                  | 050 (5 μm)                               | M3 (222 O-ring with Flat End)  |                                                                                     |                                                                 |             |  | (M3)  | (10″)         | 265 | 6 |  |   |  |
|                  | 070 (7 μm)                               |                                |                                                                                     |                                                                 |             |                                                                                     |       | (20″)         | 511 | 6 |  |   |  |
|                  | 100 (10 μm)                              |                                |                                                                                     |                                                                 |             |                                                                                     |       | (30″)         | 758 | 6 |  |   |  |
|                  | 150 (15 μm)                              | M8 (222 O-ring with Spear End) |                                                                                     |                                                                 |             |  | (M8)  | (10″)         | 309 | 6 |  |   |  |
|                  |                                          |                                |                                                                                     |                                                                 |             |                                                                                     |       | (20″)         | 555 | 6 |  |   |  |
|                  |                                          |                                |                                                                                     |                                                                 |             |                                                                                     |       | (30″)         | 801 | 6 |  |   |  |
|                  | Example : PF-010E72 25-70-807 (SPQ 6pcs) |                                |                                                                                     |                                                                 |             |                                                                                     |       |               |     |   |  |   |  |
|                  | PF -                                     | 010                            |                                                                                     |                                                                 |             | E7                                                                                  | 2     | 25-70-        | 807 |   |  | 6 |  |

Example : PF-010E72 25-70-807 (SPQ 6pcs)

|      |     |    |   |        |     |   |
|------|-----|----|---|--------|-----|---|
| PF - | 010 | E7 | 2 | 25-70- | 807 | 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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