

● PLEATED

POLYPROPYLENE CARTRIDGE FILTERS
FOR HIGH VISCOSITY LIQUID

TCP-V Type



TCP-V Type

PLEATED POLYPROPYLENE CARTRIDGE FILTERS FOR HIGH VISCOSITY LIQUID

Increases flow rate of high viscosity liquid!!

Features

- Increases flow rate of high viscosity liquid by approximately 30%* with the same particle capture efficiency.
*Compared with our conventional products. Figures are reference values, not guaranteed values.
- Made with polypropylene, this filter handles acid, alkaline and many other organic solvents.
- The filter employs low-elution and fusion-bonded polypropylene filaments, which minimizes release and elution of fiber.



Applications

- Filtration of high-viscosity resists, solvents, chemical agents, pastes, and magnetic materials used in the microelectronics industry
- Filtration of varnish, resins for film, polymers, and catalysts used in the chemical industry
- Filtration of solvents used for production, and intermediate and finished products manufactured in the pharmaceuticals and cosmetic industry
- Filtration of syrups, molasses, soft drinks used or produced in the food, beverage and brewery industry

Specifications

Product Name	TCP-1V	TCP-3V	TCP-7V	TCP-10V	TCP-30V	TCP-50V	TCP-70V
Nominal Rating (μm)	1	3	7	10	30	50	70
Maximum Differential Pressure*	0.49MPa (25°C)						
Maximum Operating Temperature*	80°C						
Material	Polypropylene						
Length	250mm, 500mm, 750mm, 1,000mm						
Sterilization Method	Autoclave Sterilization at 121°C for 30 minutes In-line Steam Sterilization at 126°C for 30 minutes Hot Water Sterilization at 90°C for 30 minutes repeated 50 times (25 cumulative hours) Ethylene Oxide Gas Sterilization						

*Maximum differential pressure and maximum operating temperature are set based on the results of test using water. These may differ depending on the combination of chemicals, differential pressure, temperature, and time; therefore, we recommend testing before use.

- This product is made of plastic and may deteriorate over time. In particular, long exposure to fluids containing oxidants such as chlorine may cause oxidative deterioration and lower the strength of filters and support media. The level of deterioration may differ depending on the conditions of temperature and pressure, and type of chemicals. Please ensure the periodic replacement of filters when using the product under severe conditions.

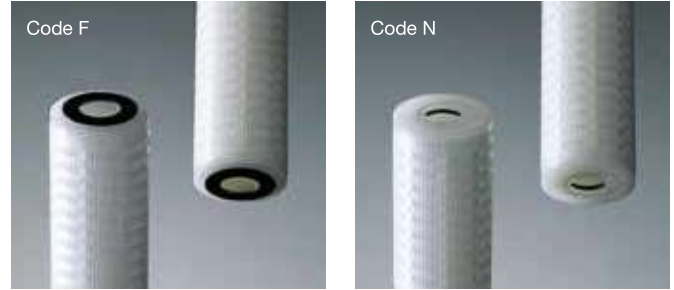
PLEATED POLYPROPYLENE CARTRIDGE FILTERS FOR HIGH VISCOSITY LIQUID

Product Name

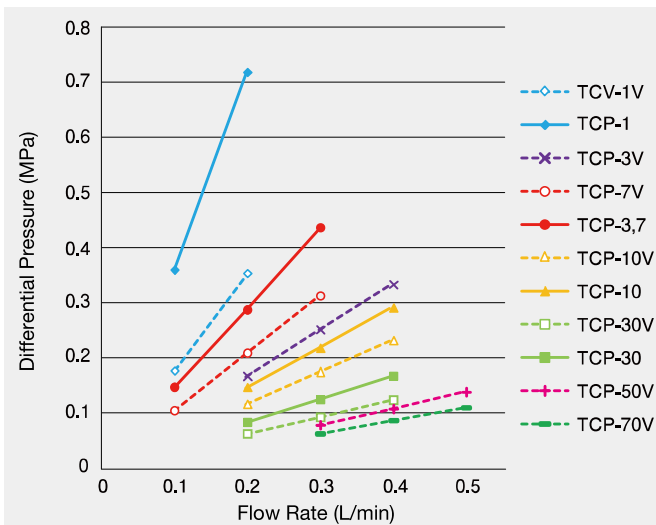
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Pore Size	Code	Length (mm)	Code	Cartridge Filter Shape	Code	Gasket/O-ring Polymer
1V	S	250	F	Please check photos for details of the shape of each cartridge filter.	E (Standard)	Ethylene Propylene
3V	D	500	N		D	EPDM
7V	T	750	M		N	Chloroprene
10V	Q	1,000	H		B	NBR
30V			R		S*	Silicone
50V			K		V	FPM
70V			P		H (Gasket only)	PTFE
			J		F (O-ring only)	FEP Jacket

*Standard for cartridge filter shape code H, K, and J



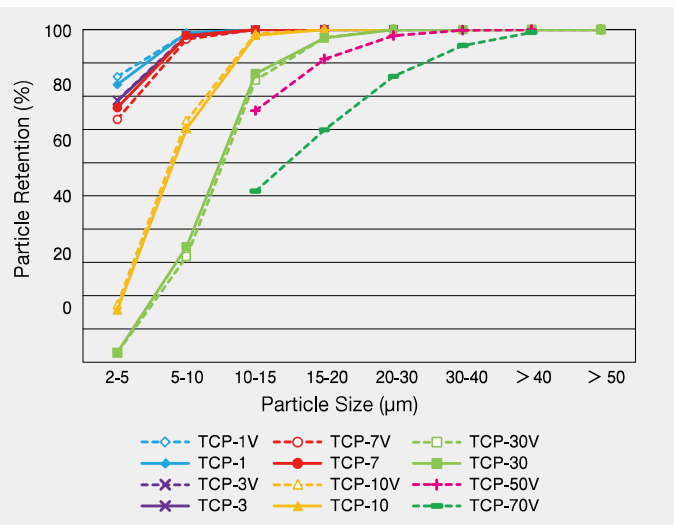
Water Flow Rate Comparison



<<Testing Conditions>>

Sample Shape : 250 mm type
 Housing : 1TWA-1S-FS
 Test Solution : Glycol ether solution
 Viscosity : 50,000mPa·s±5,000mPa·s

Particle Capture Efficiency Comparison

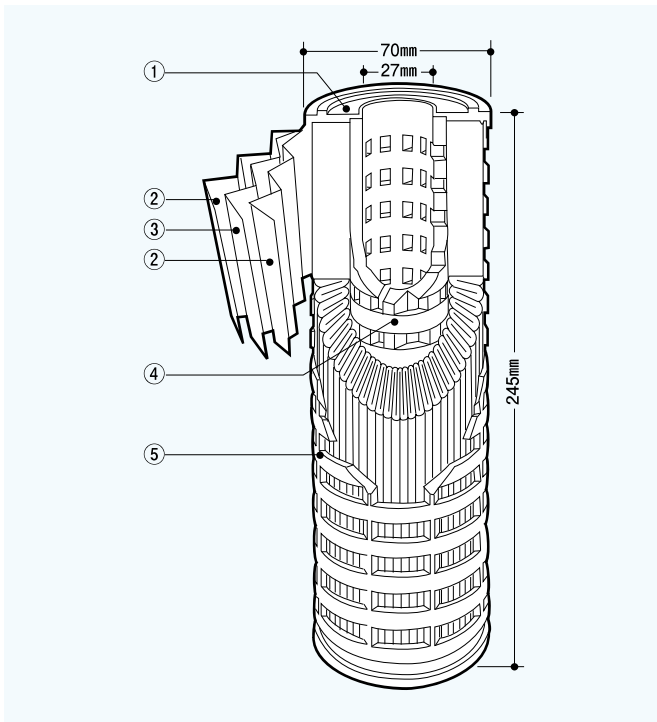


<<Testing Conditions>>

Sample Shape : 250 mm type
 Housing : 1TWA-1S-FS
 Particles : (1) Nominal Rating from 1 µm to 30 µm
 7 types of JIS test powder (from 1 µm to 75 µm) 5 ppm
 (2) Nominal Rating 50 µm, 70 µm
 Acrylic resin (from 5 µm to 100 µm) 200 mg/L
 Flow Rate : 10 L/min

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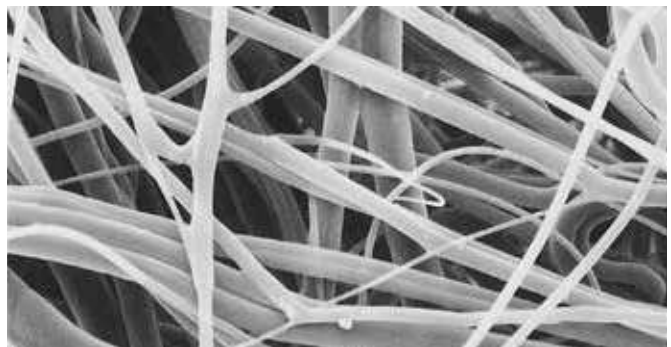
■TCP-V Type Composition



■Materials

- ① Endcap : Polypropylene
- ② Support Media : Polypropylene
- ③ Filter : Polypropylene
- ④ Core Tube : Polypropylene
- ⑤ Outer Sleeve : Polypropylene

■Surface of the Filtering Layer (Electron Micrography)



- Specifications listed in this brochure are subject to change without notice.
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Toward the Future of Science
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