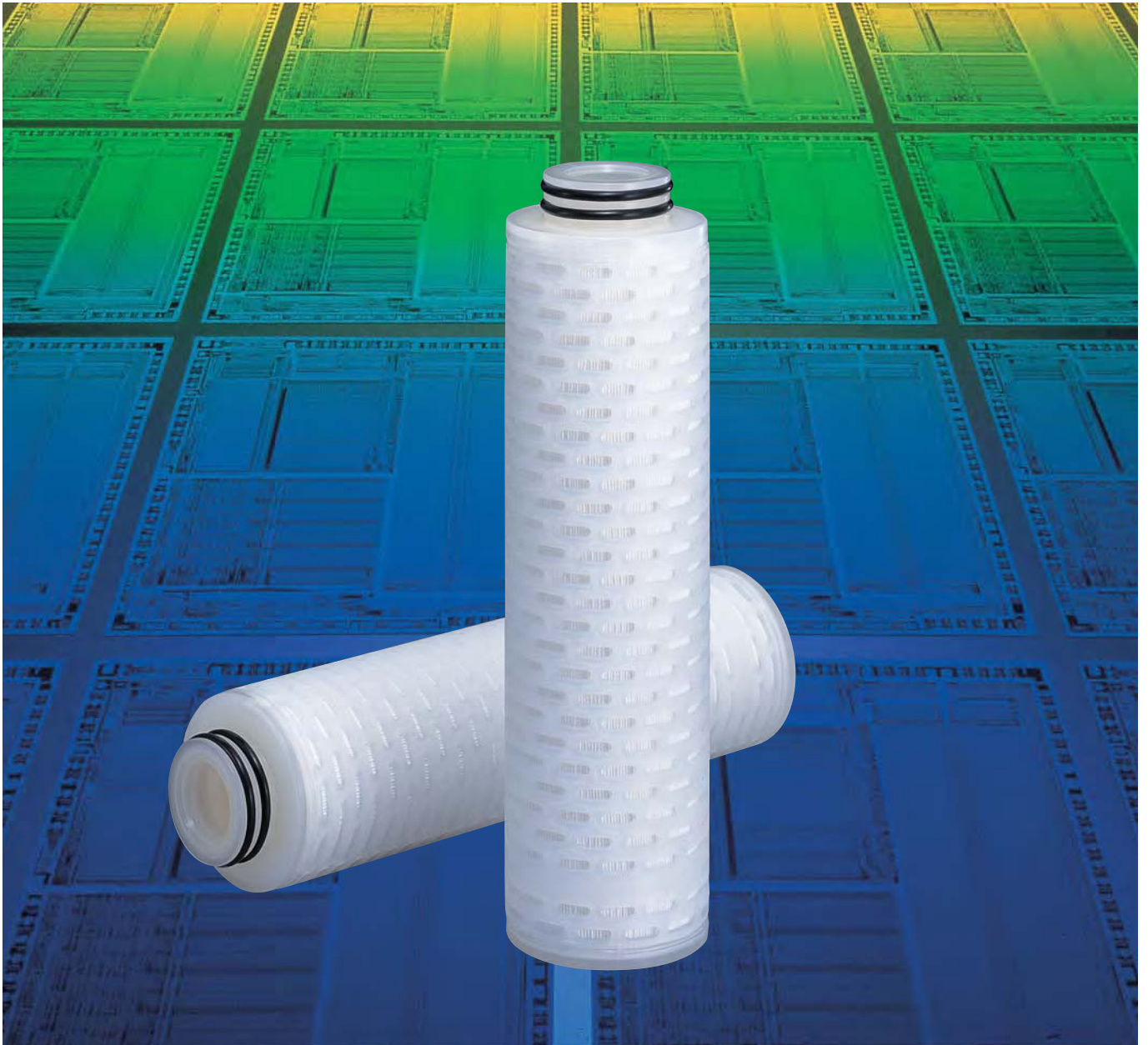


AstroPore Fujifilm Micro Filter

PSE05 Cartridge

(Pleated membrane Cartridge)



- The particle-removing performance for a single-pass operation stands at 0.05 μm .
- The flow rate is decreased by only 15% as compared with the conventional 0.1- μm cartridges.
- As the cartridge has the same dimensions ($\phi 70$ mm) as the conventional type, it is not necessary to modify the housing.

The PSE cartridge series, which features a high flow rate and a high particle-capturing performance, is now enriched with 0.05 μm cartridges.

The new cartridges support micro design rule applications.

Major Applications

Utilizing a performance-proven PSE membrane, this cartridge is suitable for use in the production lines mentioned below where micro-particle removal is required.

- Pure water filtering for cleaning systems used in 300-mm wafer manufacturing processes
- Chemical fluid filtering for cleaning systems used in 300-mm wafer manufacturing processes
- Filtering of plating fluid pr developers

Specific Features

1. Excellent particle-capturing performance

The dense inner layer, unique to PSE membranes, effectively captures particles in the order of 0.05 μm .

2. High flow-rate

The flow rate is decreased by only 15% as compared with the current 0.1 μm single (250 L) cartridges.

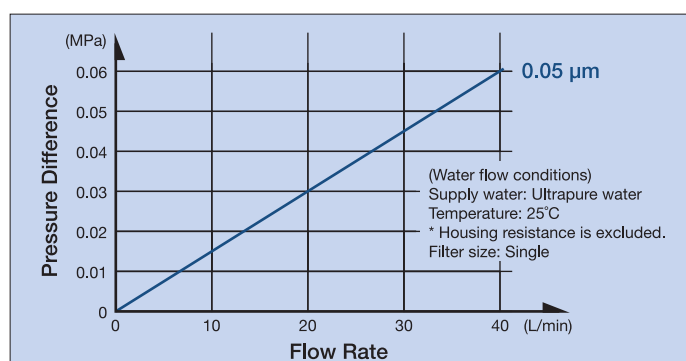
3. Long life

The unique structure of PSE membrane makes a long service life a reality.



SEM photo of a cross-section of the PSE membrane

Flow Rate Characteristics



Size

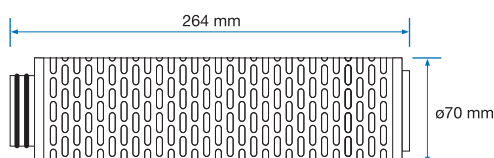


Table of Performance Characteristics

Item	Unit	Performance	Remarks
Pore size	μm	0.05	
Size	Length	mm	264 (Note 1)
	Outer diameter	mm	70
Max. differential pressure	25°C	MPa	0.54 (Positive pressure)
	25°C	MPa	0.34 (Back pressure)
Max. heat resistance	°C	90	(Note 2)
Applicable pH range		1 ~ 14	(Note 3)

(Note 1) Contact Fujifilm for detailed information on size.

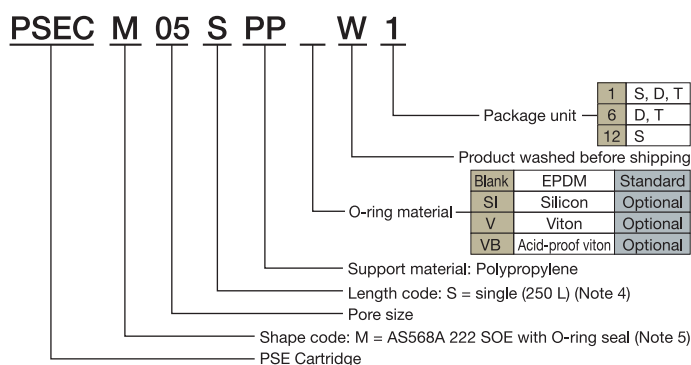
(Note 2) Continuously applied temperature

(Note 3) In case of chemical fluid filtration, a pre-test should be performed under users' own condition.

[Materials]

Name of part	Material
Guard	Polypropylene
Center core	Polypropylene
Support	Polypropylene
Membrane filter	Polysulfone (Asymmetric membrane)
O-ring	EPDM (Silicon, Viton)

Product Codes



(Note 4) For Double (D) or Triple (T) type, consult Fujifilm.

(Note 5) Also available MP type (AS568A222 SOE with O-ring seal and fin).

Shape / Package unit	M type	MP type
1	PSECM05SPPW1	PSECM05SPPW1
12	PSECM05SPPW12	PSECM05SPPW12