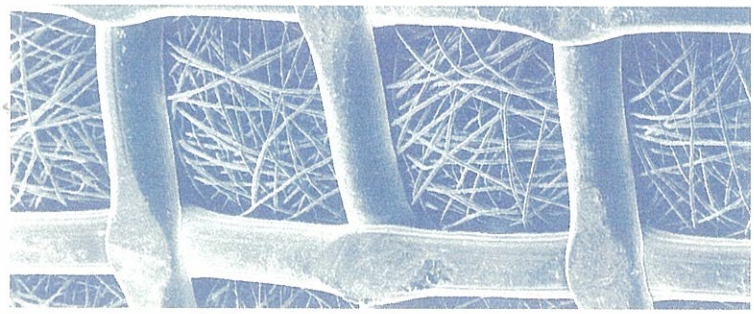
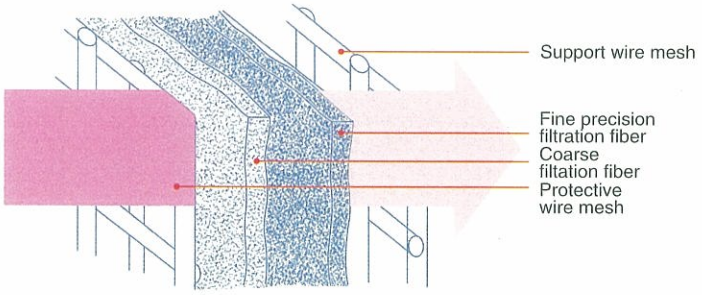
FUJI POLYMER FILTER ELEMENT

Laminated Non-woven Metal Fiber Sintered Filter

FUJI METAL FIBER

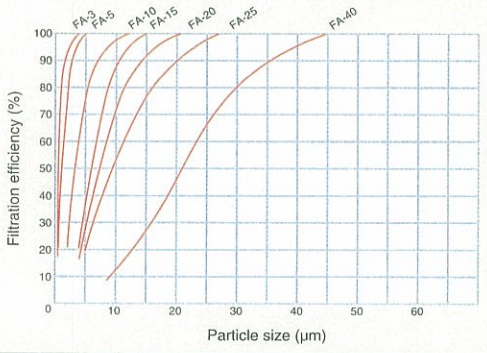
FUJI METAL FIBER is a non-woven filter made of laminated, sintered layers of metal fiber felt (stainless steel is standard). This medium has excellent heat-resistance, durability and corrosion resistance, and it is used for high temperature, high viscosity fluid filtration. **FUJI METAL FIBER** has a typical depth filtration structure giving high filtration efficiency, low filtration resistance and a large contaminant retention capability.





Filtration Efficiency

The graph shows the filtration efficiency curves of FA Series FUJI METAL FIBER as measured by a multipass test. These performance curves show high filtration efficiency, a property of depth filtration media.



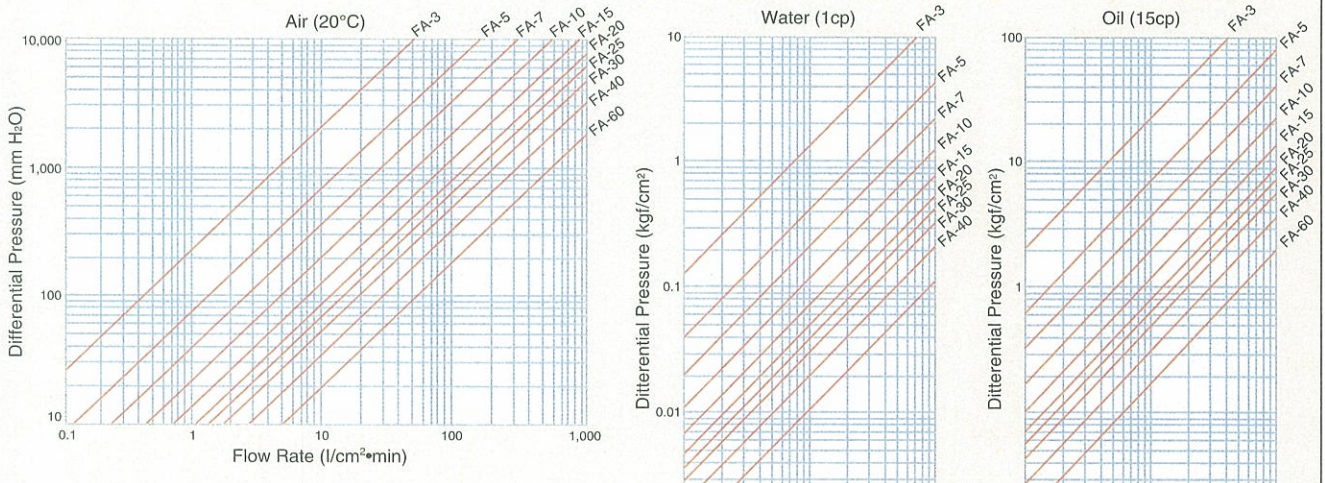
Standard Specifications

Material	Stainless steel SUS316L
	Corrosion resistant alloy
	Hasteloy / Carpenter 20CB3
	Heat resistant alloy
	Inconel 601 / Nickel 200
Standard plate size :	1,180 X 1,500mm
Configuration :	Tubular ø14, 25, 50mm
	Any length available up to 1,000mm
	Disc ø30 to 400mm
	Leaf disc 44B-12B
	Bag filter
Thickness :	0.09 to 0.65mm
Filtration rating :	3 to 60 microns

Features

- Outstanding heat resistance, durability and corrosion resistance
- Highly integrated, high density pore distribution ensures excellent filtration efficiency
- Three dimensional matrix structure with void ratio of 70 to 80% results in low filtration resistance and high contaminant retention
- Multilayer structure of coarse and fine wire felt designed to maximize retention capacity

Flow Diagram



Initial pressure loss through the filter element is calculated by the follow formula.

$$\Delta P_0 = 1.67 \times 10^{-1} \times K_0 \times \frac{\mu \cdot Q}{A}$$

ΔP_0: Initial pressure loss (kfg/cm²)
K_0: Filtration resistance coefficient (cm⁻¹)
A: Filtration area (cm²)
μ: Viscosity of fluid (poise=dyne·sec/cm²)
Q: Flow volume (ℓ/mim)