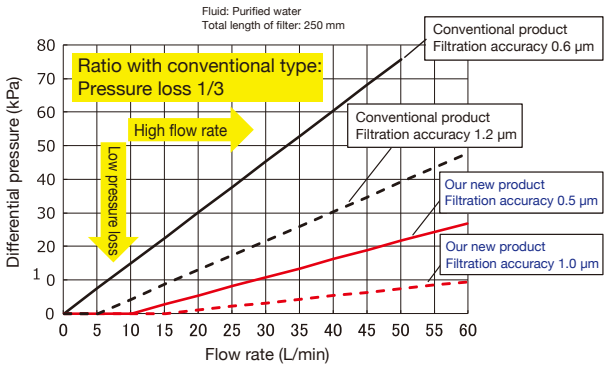
Nanofront® Liquid Filter Cartridge

[Using ultra-fine nanofiber filter material]

Features

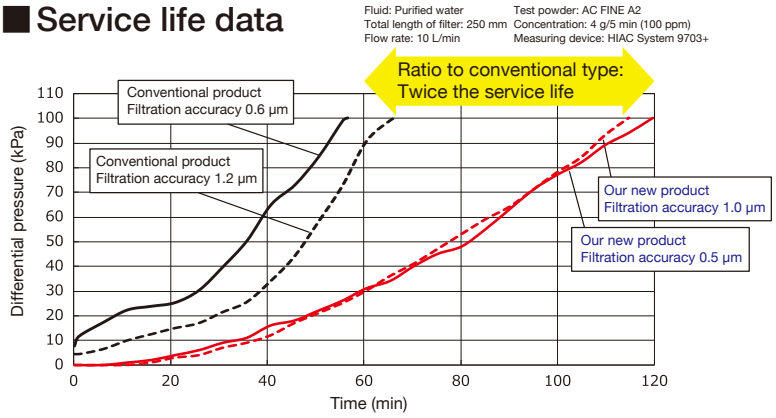
Simultaneously realizes high filtration efficiency, low pressure loss, high flow characteristics, and longer service life, while also helping to reduce running costs.

■ Flow characteristics data



Values for the data above do not include pipe resistance.

■ Service life data



■ Bacterial challenge test

Filter material grade		Indicator bacterium		
		Brevundimonas diminuta (0.2μm)	Serratia marcescens (0.45μm)	Sacharomyces cerevisiaee (0.8μm)
PET 0.3μm	Capture rate (Removal rate)	99.99% or greater	99.99% or greater	99.99% or greater
PET 0.5μm		38.46%	52.50%	99.99% or greater
Ny-6 0.5μm		94.10%	96.10%	99.99% or greater

*Using multiple layers of filter material

The above data gives typical values obtained under specific conditions using our company's tests. These are not guaranteed values.

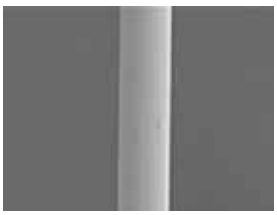
Filter material

Filter paper is made by evenly dispersing nanofibers with uniform fiber diameter in water, and using this method we have created a "filter material whose pore size is finer and more uniform, and whose pore size distribution is sharper, than ordinary nonwoven fabric." Fibers are affixed to each other through thermobonding, and no other materials, such as adhesives, are used.

Nanofront®
(Ultra-fine nanofiber)

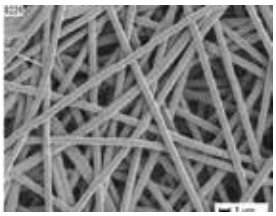
Diameter 700 nm

Ordinary fiber

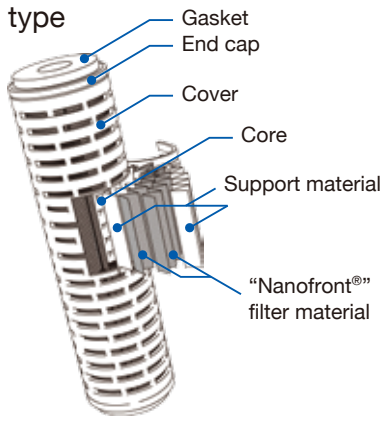


Diameter approx. 16 μm

Nanofront® filter
material surface



Filter structure
Pleated type



TEIJIN FRONTIER CO., LTD.