

FilCORE

CORPORATION

Of Clean water
By Water Purifier
For Drinking water

www.filcore.co.kr



FILCORE CORE VALUE

Fulfilment

Integrity

Loyalty

Creativity

Opportunity

Reliability

Efficiency

FILCORE HISTORY

2007 | **FOUNDATION**
"FILCORE CO., LTD."

2010 | **PATENT**
No. 10-2008-13448
No. 10-2008-0051065
'Poly-Sulfone Hollow Fiber
Membrane with prominent LP &
Potting System

2015 | **ISO**
ISO 9001 Certified by ICR
ISO 14008 Certified by ICR
Registration No. Q470910

2020 | **EXIBITION**
Participated Exhibition Aquatech
Amsterdam 2019

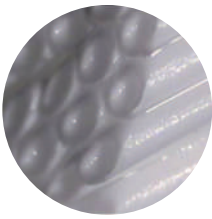
2023 | **NSF**
NSF/ANSI Standard 42
Certified for UF
element/Module(renewal)
No.C0582032-01

| **EXIBITION**
Participated Exhibition Aquatech
Amsterdam 2023

2024 | **Completed**
Antimicrobial membrane
development 2024



FEATURES OF FIBER MEMBRANE



Prominent Pore Distribution

- Pore Size – MF : Nominal 0.1 μ m
UF : Nominal 0.02 μ m
- Perfect Bacteria and Virus removal
- Porous Membrane
- Longer Life-time



Superior Hydrophilic Property

- Low Fouling by Hydroplaning

Strict Quality Control

- 100% Particle Challenge with Laser Counter.
- Low fouling & longer life-time by superior hydrophilic & porous property.

Main Material : Poly-Sulfone (P.S.)

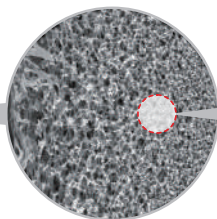
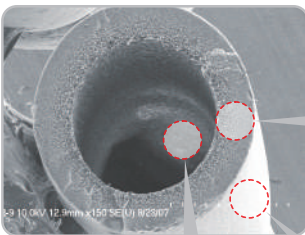
- Safe & High Performance Material.

NSF/ANSI Standard 42

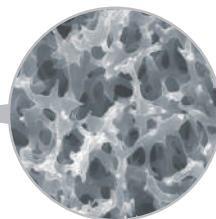
- Officially certified for public health & safe hygiene.

THE STRUCTURE AND THE FEATURES OF FILCORE MEMBRANES

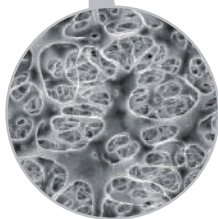
Cross Section (1)



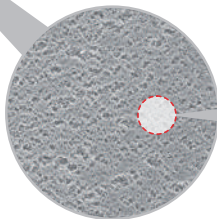
Cross Section (2)



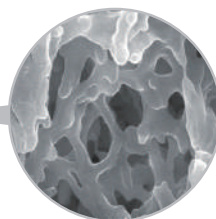
SEM x10,000



Inside View (x1k)



Outside View (x1k)



SEM x50,000

- Skin layer of sufficient thickness
(The thickness of filtration layer : about 10~15 μ m)
- The direction of filtration
(Outside→Inside)
- Secured the maximum number of pores.
- Distribution of small and uniform pores entwined in complex and diverse structure.

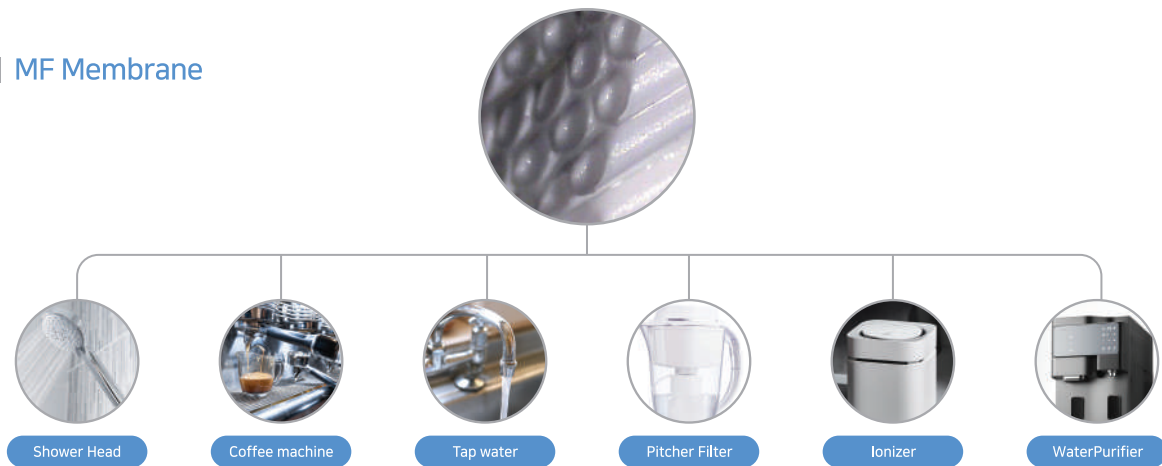
FEATURES OF PRODUCT



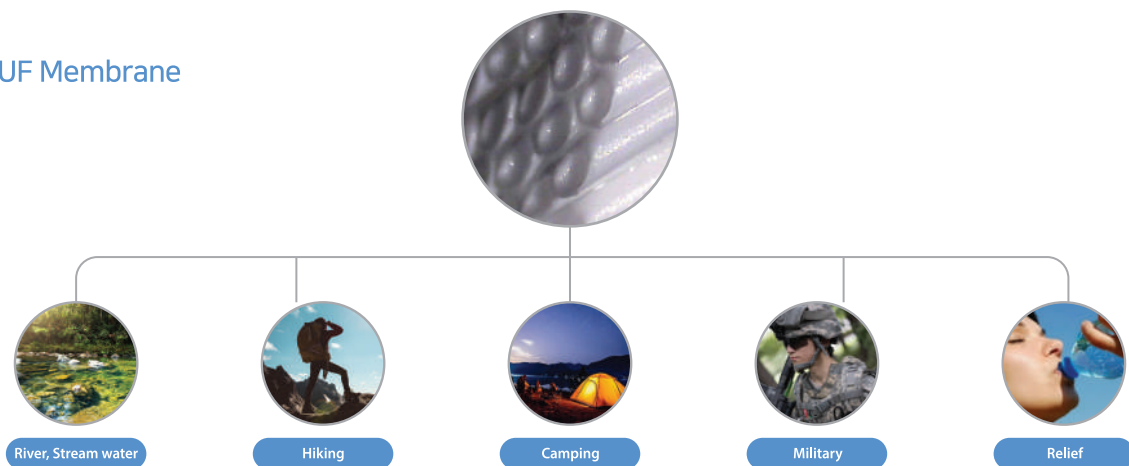
- Hollow Fiber for In-Line Filter.
- Various Sizes & Designs .
- Reliable Quality & Supply .
- The Low Cost Alternative to RO!
- No Waste of water.
- No pumps, No additional pressure.
- Including 'Air-Vent' to Element.

MF/UF MEMBRANE

MF Membrane



UF Membrane



	MF		UF
Fiber OD/ ID (μm)	590/390	460/300	470/280
Bacteria Elimination	Log 4 & Log 6		Log 7
Virus Elimination	X		Log 3
Turbidity	99% ↑		

MF/UF MEMBRANE MODULE _ MODULE SPECIFICATIONS



	MF		UF
Surface Area	0.24~0.46㎡	0.49㎡	0.49㎡
Hollow Fiber Size	590	460	470
	390	300	280
Length	188~276mm		

Spec. can be change on extension option



	MF		UF
Surface Area	0.24~0.46㎡	0.49㎡	0.49㎡
Hollow Fiber Size	590	460	470
	390	300	280
Length	168mm		

Spec. can be change on extension option



	MF		UF
Surface Area	0.10~0.18㎡	0.25㎡	0.25㎡
Hollow Fiber Size	590	460	470
	390	300	280
Length	70, 85mm		

Spec. can be change on extension option

MF/UF MEMBRANE MODULE _ MODULE SPECIFICATIONS



10Inch Cartridge

10 Inch Cartridge		
	MF	UF
Surface Area	1.4m ²	1.5m ²
Hollow Fiber Size	590	470
	390	280
Case Length	250mm	



20Inch Cartridge

20 Inch Cartridge		
	MF	UF
Surface Area	4.2m ²	4.5m ²
Hollow Fiber Size	590	470
	390	280
Case Length	520mm	

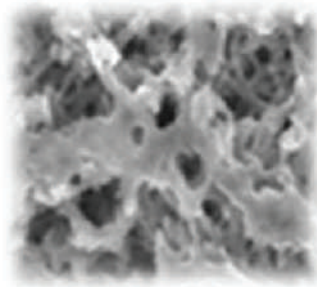
SHOWER FILTER



Sediment Filter

Microfiber Sediment
filter section

VS



Hollow Fiber Filter

millions of Micropores
hollowfiber membrane section

O	Impurifies	O
X	(Pathogenic) Bacteria	O
X	Microplastic	O

