

**FilCORE**

CORPORATION

Of Clean water  
By Water Purifier  
For Drinking water

[www.filcore.co.kr](http://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

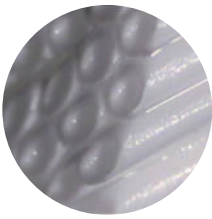
**2023 | NSF**  
NSF/ANSI Standard 42  
Certified for UF  
element/Module(renewal)  
No.C0582032-01

**| 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 $\mu$ m  
UF : Nominal 0.02 $\mu$ 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.)

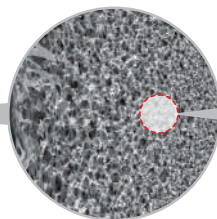
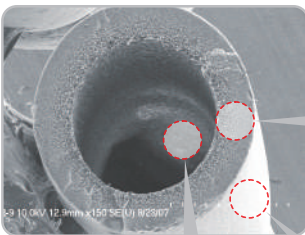
- Safe & High Performance Material.

### NSF/ANSI Standard 42

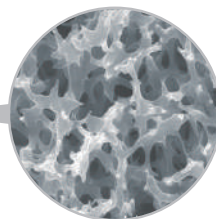
- Officially certified for public health & safe hygiene.

## THE STRUCTURE AND THE FEATURES OF FILCORE MEMBRANES

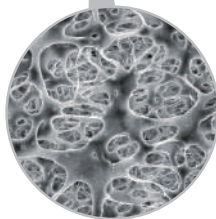
### Cross Section (1)



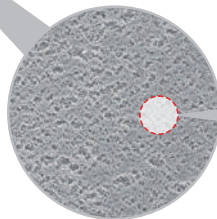
Cross Section (2)



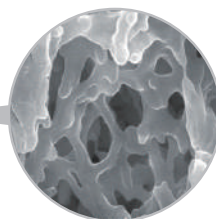
SEM x10,000



Inside View ( x1k)



Outside View ( x1k)



SEM x50,000

- Skin layer of sufficient thickness  
(The thickness of filtration layer : about 10~15 $\mu$ 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.

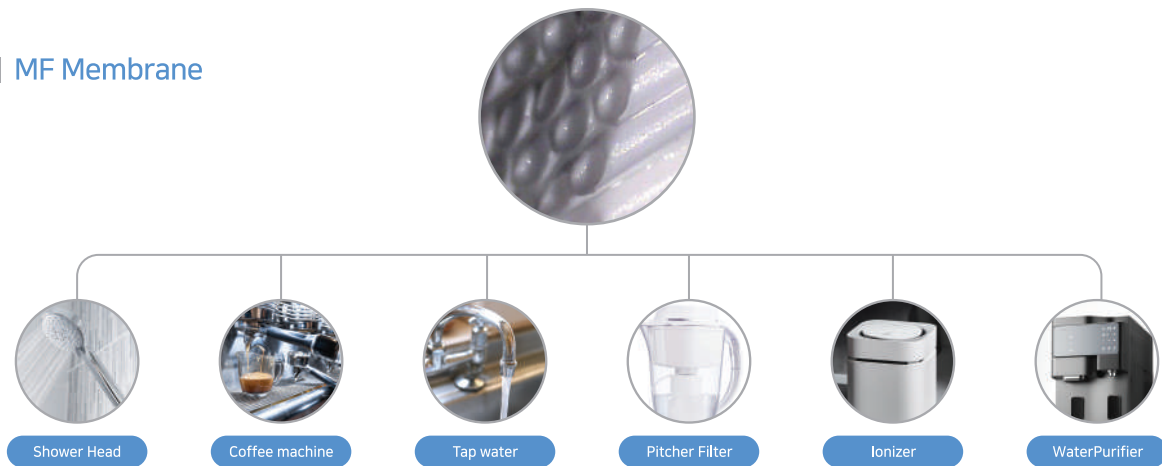
## FEATURES OF PRODUCT



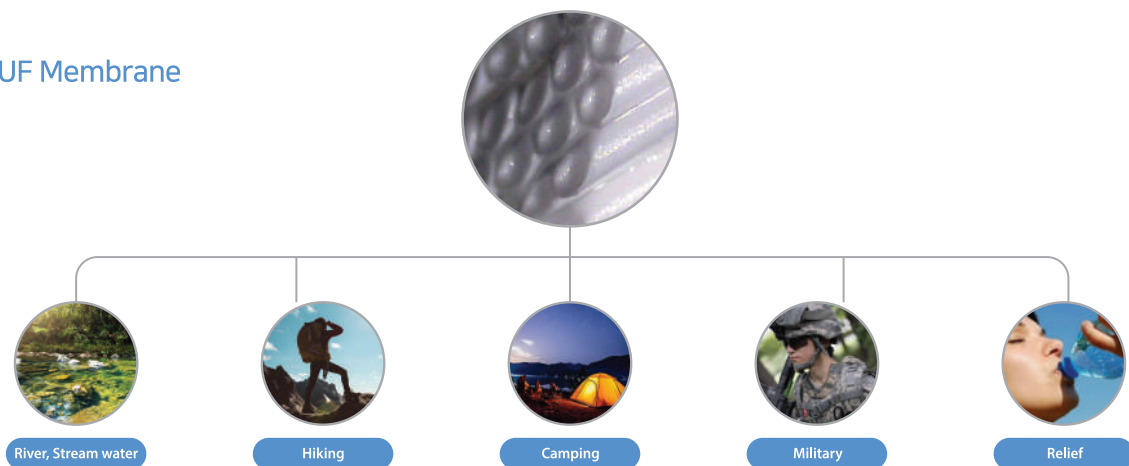
- Hollow Fiber for In-Line Filter.
- Various Sizes & Designs .
- Reliable Quality & Supply .
- The Low Cost Alternative to RO!
- No Waste of water.
- No pumps, No additional pressure.
- Including 'Air-Vent' to Element.

## 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 <sup>2</sup>	1.5m <sup>2</sup>
Hollow Fiber Size	590	470
	390	280
Case Length	250mm	



20Inch Cartridge

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

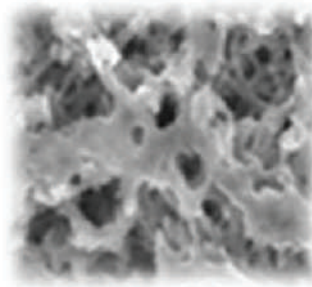
## SHOWER FILTER



### 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

