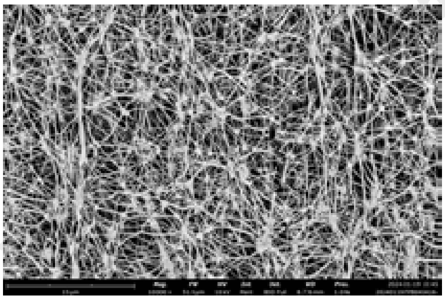
Non-dewetting
PTFE Membrane

OUR MEMBRANE FOR YOUR SOLUTIONS

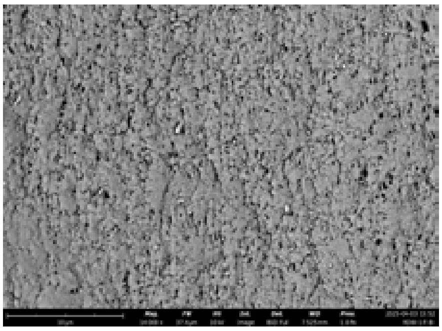
MS-TM-E-4014-EN A/1

Description

The non dewetting PTFE membrane provided by MS is made by modifying the e-PTFE membrane with a special coating. Through the unique modification technology of MS, hydrophilic functional groups with strong acid, alkali, and oxidation resistance are formed on the surface of PTFE membrane. Therefore, the surface energy of the modified PTFE membrane is improved, and compared to PTFE membrane, it can maintain a hydrophilic state for a long time in aqueous solution after alcohol infiltration. Strong acid filtration is widely used in the semiconductor industry.



Before Modification



After Modification

Features

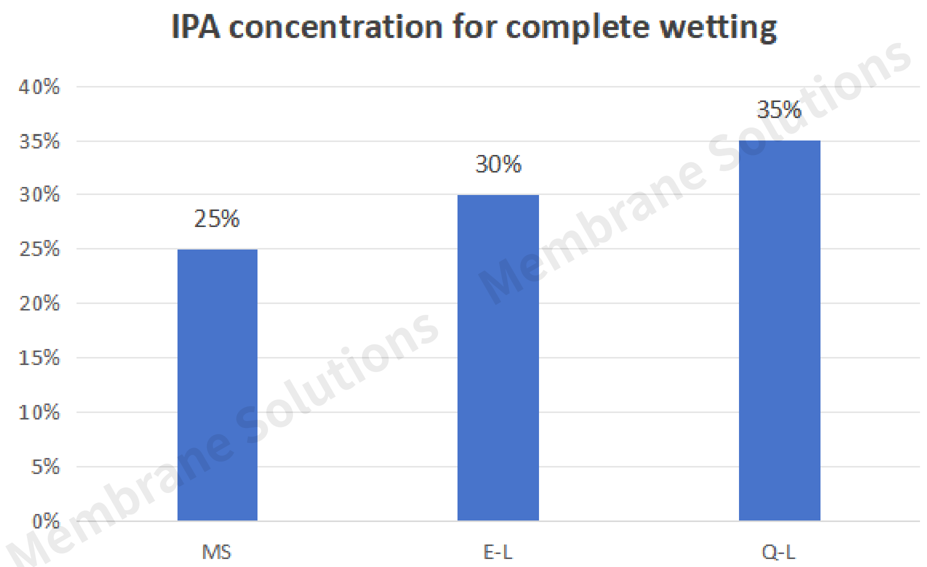
- Relatively high membrane surface energy (<30dyn)
- Wide temperature range (-40°C - 260°C)
- Thickness (10-50μm)
- Resistant to strong acids, strong bases, and strong oxidants (eg.HNO3, H2SO4)
- Higher resistance to air pressure

Applications

- Strong acid and strong alkali filtration
- Solvent filtration in the semiconductor industry

Specification

Membrane Type	Pore Size (μm)	Thickness (μm)	Water Flow Rate (mL/min/cm^2) 23°C,△p=-10psi	Bubble Point (23°C,psi)	Particle Retention Efficiency	Wettability
Non-dewetting PTFE	0.05	10-20	3.2-4.9	21-36(60% IPA)	91.35-96.26% @0.05μm	25%IPA



Ordering Information

Series Code	Pore Size	Support Material Code
NDW	005=0.05μm	N=Without Support