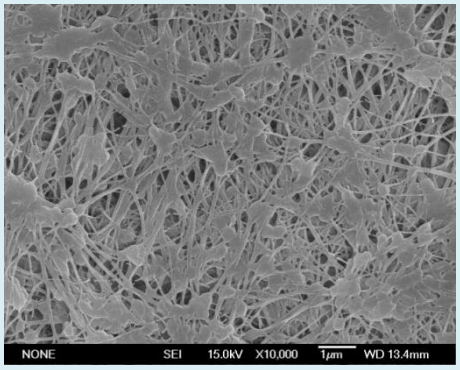
Membrane Solutions

PTFE Microfiltration Membrane



MS®PTFE membrane, with its advantage of high porosity and high laminating strength, reached world first class technology. Membrane Solutions has developed multi-Hi-tech membrane products, including hydrophobic and hydrophilic membrane. For years MS has been providing filtration products to industries like water treatment, air filtration, biosciences, chemical engineering, laboratory testing, food and beverage, electronics and pharmaceutical industries.

MS has offered and provided its outstanding quality and technology, rigorous process and full range after sales service to customers in China and abroad with products for cleaning to reach satisfied result.

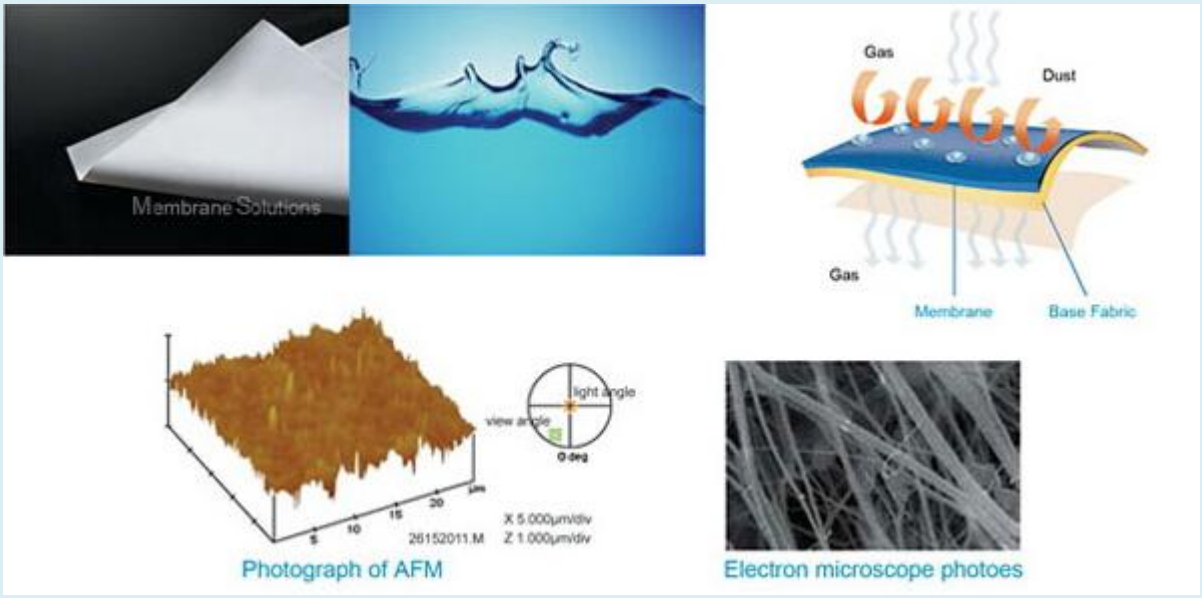
www.membrane-solutions.com

USA
Toll free: 866-528-4572
Fax: 732-412-4040
Address: 1108 Spring View Lane Plano, TX 75075

China
Toll free: 400-620-1660
Fax: 0086-21- 51687551
Address: 2202, No.1759 North Zhongshan Road, Shanghai

Membrane Solutions

MS® Hydrophobic PTFE Membrane for Dust Filtration



MS PTFE membrane has the advantage of good uniformity, high air-permeability, anti chemical erosive, low friction coefficient and working an wide range of temperature. Dust is filtered only on the surface of the media to avoid dust blocking the media when using traditional filter media. The PTFE membrane has excellent smooth surface, good water-resistant and dust desquamation. The filtration efficiency can be 99.999%.

MS PTFE membrane have a lot of advantage, high pore volume, high efficiency in filtration, low pressure drop, high flow rate, working on wide range of temperature. It can reduce operating cost and extend runt.

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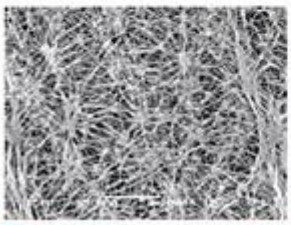
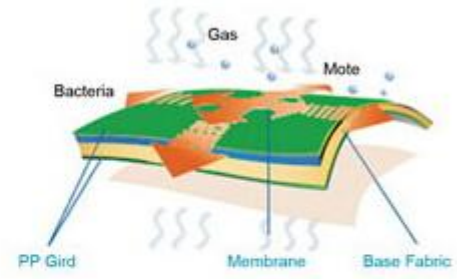
Module Specifications

Type	MS-1100
Material	PTFE
Pore Size（μm）	0.10、0.22、0.45、1.00、5.00
Thickness（μm）	5-10
Length（m）	≥500
Width（mm）	1500±20

MS® Hydrophobic PTFE Membrane for Textile



Electron microscope photoes



MS PTFE membrane has thickness round about 25μm, pore volume about 82%, average pore diameter 0.2μm-0.3μm (range 0.02μm-0.5μm), less than the least diameter of fog (20μm-100μm) and more than the diameter of water vapor molecule (0.0003μm-0.0004μm). Water droplets can't pass while water vapor molecules can. Furthermore, the PTFE membrane is hydrophobic. The waterproof moisture membrane can laminated with a great variety of fabric. It is widely used in tour clothes, fallow dress, sportswear, jacket, tent, wind coat, raincoat etc.

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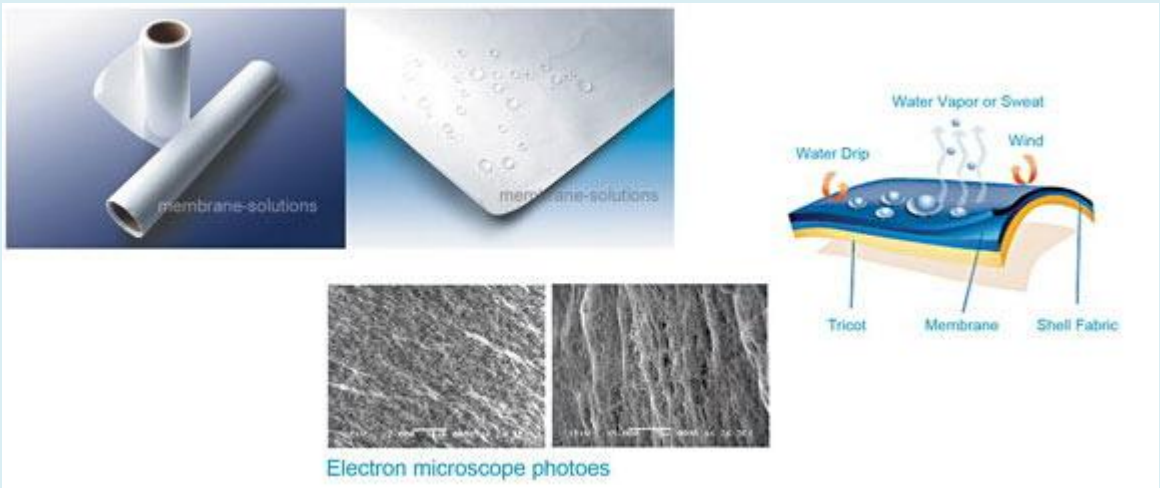
Module Specifications

Type	MS-2010	MS-2020
Material	PTFE	
Pore Size（μm）	0.2-0.5	
Width（mm）	1650±20	
Length（m）	≥500	≥425
Thickness（μm）	15-25	25-35
Weight（mg/cm^2）	7±1.5	10.5±2

MS® Hydrophobic PTFE Membrane for Liquid Filtration



MS PTFE membrane media for filtration is made of PTFE, and were drawn 2-demension. It is micro-pore film. The PTFE membrane was laminated with s great variety of fabric and paper. They are new filter media. Applied to extensive industries, including pharmacy, biochemistry, microelectronic, and lab material and etc. Directly and indirectly related to pharmacy, brewing, manufacture of pure water and special need water, beverage and dairy, chemical reagent, biochemical reagent, air filtration of fermentation tank in microelectronic, purification and filtration in microelectronic

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plants, filtration and separation of antibacterial fluid, production of medicine, air conditioning of hospitals and commercial buildings.

Features

- ✧ PTFE membrane with supporting layer polyester or polypropylene
- ✧ The PTFE membrane can effectively filtrate microorganism and other particulates
- ✧ Wide chemical compatibility
- ✧ High temperature resistance
- ✧ Low starting resistance

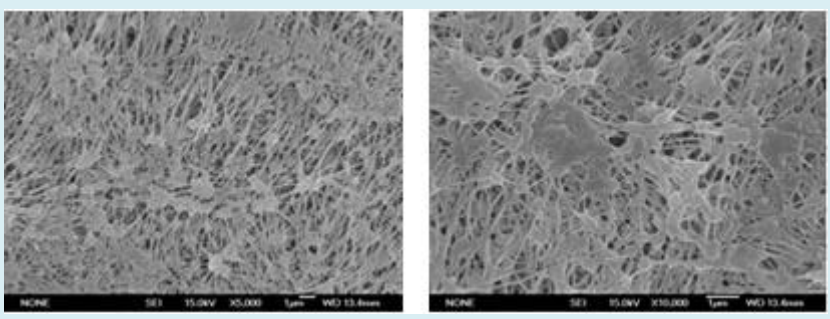
Applications

- ✧ Filtration of strong acids and aggressive solutions
- ✧ Venting applications
- ✧ Phase separations
- ✧ Aerosol samplings

Module Specifications

Material	PTFE
Pore Size（μm）	0.1、0.22、0.45、1.00
Width（mm）	260、520
Length（m）	150-200
Thickness（μm）	160±40
Support Material	PP/PET

MS® Hydrophilic PTFE Membrane



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Features

- ✧ Pore size is small and easy to be controlled: the pore size reaches the minimum of 0.02μm and can be adjusted in the range of 0.05-3μm based on different requirements
- ✧ High porosity: up to 85%-93%, with 1 billion pores per square centimeter and uniform distribution
- ✧ Low resistance, high flux, and high precision due to high porosity
- ✧ Low surface friction coefficient: 0.1
- ✧ High chemical resistant: slightly corrosive only by molten alkali metal and fluorine
- ✧ Wide range of working temperature:180-260℃

Application

- ✧ Gas: Filtration and recovery of industrial dust
- ✧ Liquid: Liquid filtration, purification and industrial water treatment
- ✧ Precise Filtration: Purification, filtration and product recovery in pharmaceutical and electronic industry
- ✧ Others: For civil applications

Module Specifications

Material	PTFE	
Pore Size（μm）	0.22、0.45、1.00	
Width（mm）	270	
Thickness（μm）	450-520	180-250
Support Material	PET	--

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