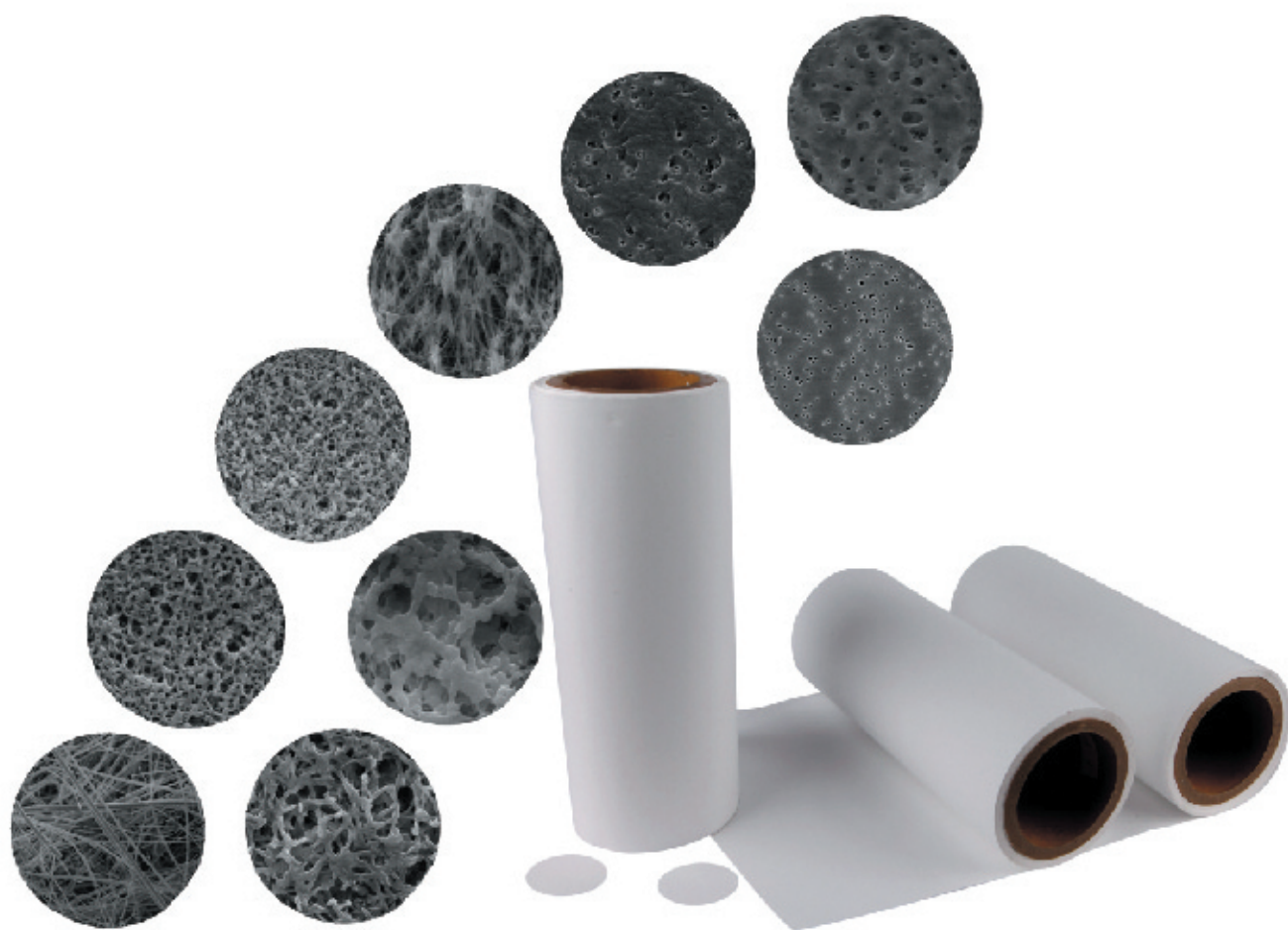


# AISIMÔ



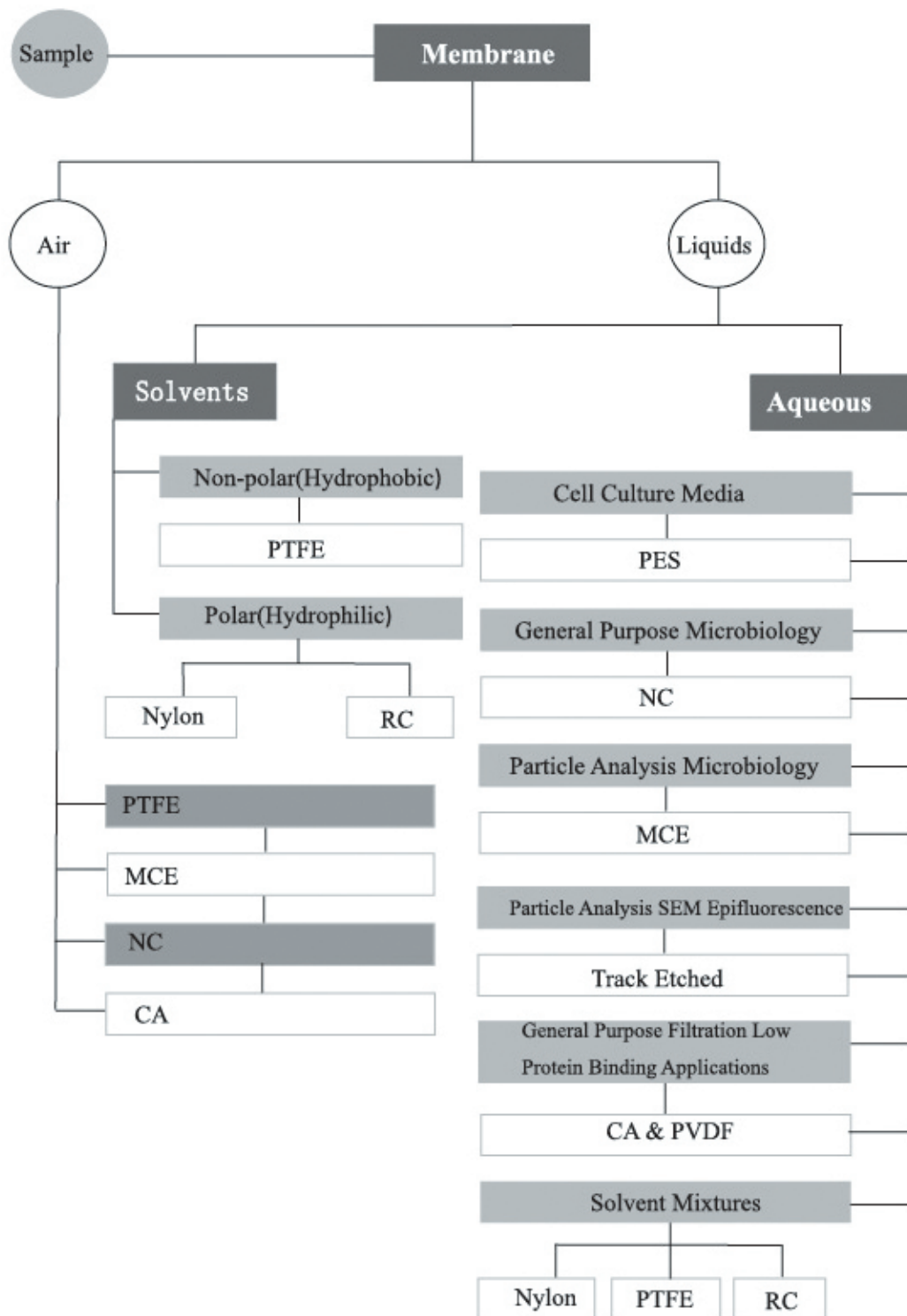
AISIMO CORPORATION CO., LTD

# Catalogue

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## AISIMO Membrane Selection Guide



## AISIMO Nylon membrane

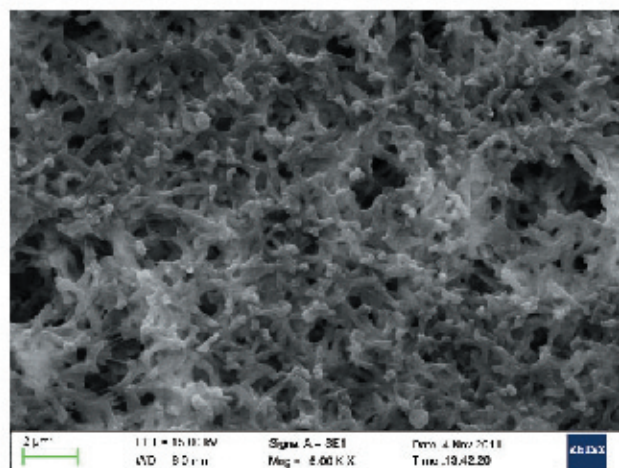


**AISIMO Nylon membrane** filters are made of supported, naturally hydrophilic membrane for versatile use and consistent performance. This particular category of laboratory filtration equipment is specifically designed to wet out evenly and retain its superior strength during use in general filtration or medical assays.

As naturally hydrophilic, **AISIMO Nylon membrane** does not require wetting agents that can interfere with biological processes. Additionally, its high surface area successfully immobilizes antigens, antibodies and other proteins. The resulting membrane has a void volume of 70-85 percent for high diffusion and low-flow resistance.

### Applications

- Bacterial removal
- Biosensors
- HPLC flowing particle removal
- Drug filtration
- Organic solvents filtration IV filters
- Lateral flow assays
- Particulate removal



### Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
USP Class VI Testing	Passed
Thickness	100 ±10μm
Extractable	<0.2% (<0.0015 mg/cm <sup>2</sup> )

BSA Protein Binding	Approx. 120 µg/cm <sup>2</sup>
Maximum Operating Temperature	150° C
Sealing Compatibility	Ultrasonic, Heat, Radio Frequency and Insert Molding
Pore Size Range	0.1 to 5.0 µm

Pore Size (µm)	Minimum Bubble Point (Mpa)	Typical Flow Rate (mL/min·cm <sup>2</sup> @0.2Mpa)
0.10	0.39	1.1
0.22	0.31	2.5
0.45	0.23	3.6
0.65	0.16	9.0
1.0	0.09	23.1
3.0	0.07	28.6
5.0	0.04	66.8

### Ordering Information

Catalog	Description
0.22µm Pore Size	
AM13NY22	Nylon membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25NY22	Nylon membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47NY22	Nylon membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90NY22	Nylon membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142NY22	Nylon membrane filter, 142mm , 0.22µm, 100pcs/pk
AM293NY22	Nylon membrane filter, 293mm , 0.22µm, 25pcs/pk
0.45µm Pore Size	
AM13NY45	Nylon membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25NY45	Nylon membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47NY45	Nylon membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90NY45	Nylon membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142NY45	Nylon membrane filter, 142mm , 0.45µm, 100pcs/pk
AM293NY45	Nylon membrane filter, 293mm , 0.45µm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

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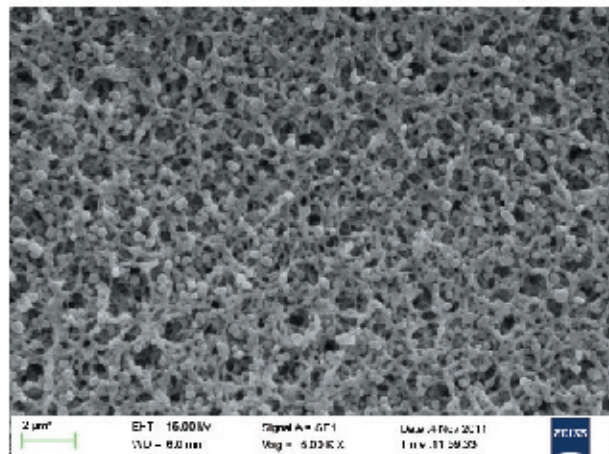
## AISIMO MCE membrane



**AISIMO MCE membrane filter** is a mixture of nitrocellulose and cellulose acetate, meets rigorous quality standards throughout every step of production. This process ensures the membrane has a uniform pore structure and consistent thickness and cosmetic characteristics. Gridded membrane available in White and Black as well as 37mm, 47mm and 50mm diameter. Sterile and pack individually.

### Applications

- Bacterial removal
- Biosensors
- HPLC flowing particle removal
- Drug filtration
- Particulate removal
- Organic solvents filtration Monitor membrane for air and water



### Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
USP Class VI Testing	Passed
Thickness	80 ±10µm
Extractable	<4% - Boiling Water



Maximum Operating Temperature	90° C
Sealing Compatibility	Ultrasonic, Heat
Pore Size Range	0.10 to 0.65µm

Pore Size (µm)	Minimum Bubble Point (Mpa)	Typical Flow Rate (mL/min·cm <sup>2</sup> @0.2Mpa)
0.10	0.40	1.3
0.22	0.29	3.4
0.45	0.20	5.0
0.65	0.15	9.8

### Ordering Information

Catalog	Description
0.22µm Pore Size	
AMF13MC22	MCE membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25MC22	MCE membrane filter, 25mm , 0.22µm, 200pcs/pk
AMF37MC22	MCE membrane filter, 37mm , 0.22µm, 200pcs/pk
AMF47MC22	MCE membrane filter, 47mm , 0.22µm, 200pcs/pk
AMF90MC22	MCE membrane filter, 90mm , 0.22µm, 100pcs/pk
AMF142MC22	MCE membrane filter, 142mm , 0.22µm, 100pcs/pk
AMF293MC22	MCE membrane filter, 293mm , 0.22µm, 25pcs/pk
0.45µm Pore Size	
AMF13MC45	MCE membrane filter, 13mm , 0.45µm, 400pcs/pk
AMF25MC45	MCE membrane filter, 25mm , 0.45µm, 200pcs/pk
AMF37MC45	MCE membrane filter, 37mm , 0.45µm, 200pcs/pk
AMF47MC45	MCE membrane filter, 47mm , 0.45µm, 200pcs/pk
AMF90MC45	MCE membrane filter, 90mm , 0.45µm, 100pcs/pk
AMF142MC45	MCE membrane filter, 142mm , 0.45µm, 100pcs/pk
AMF293MC45	MCE membrane filter, 293mm , 0.45µm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

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## AISIMO Gridded Membrane Filter



### Introduction

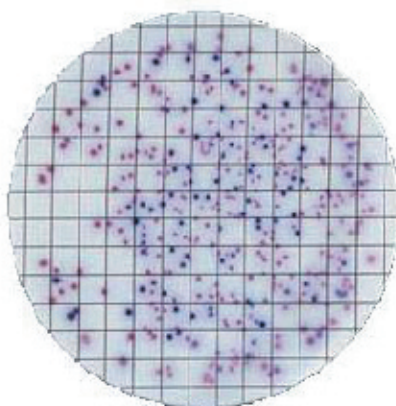
AISIMO Gridded membrane is sterile-sealed, without protective paper on top of each filter, and in an individual package. With clear advantages including operating convenience, less risk of accidental membrane contamination, less care and skill to aseptically separate membrane from packaging to reduce time per test.

### Applications

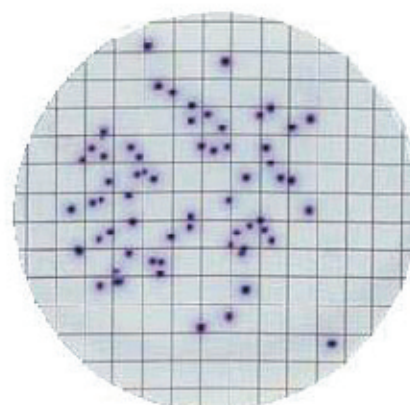
- Gamma irradiated for sterilization.
- Gridded membrane perfectly for microbiology analysis.
- From 0.1um to 5.0um pore size for different microbe analysis.
- Sterilizing filtration, air monitoring, particle monitoring, particle removal, and bioassay.
- Clarification of aqueous removal and analysis, microbiology analysis.
- Particle monitoring, particle removal, dairy microbiology, retention of yeast, molds and algae.
- QC analysis of fluid holding, particle collection and analysis.

### Features

Excellent retention and colony growth, high recovery rates of microorganism, individually wrapped in easy-peel band pack, gamma irradiation, Calibrated Mixed Cellulose Esters filters, which designed to maximize flow rates.



1



## Specifications

Filter Media: Hydrophilic mixed cellulose esters

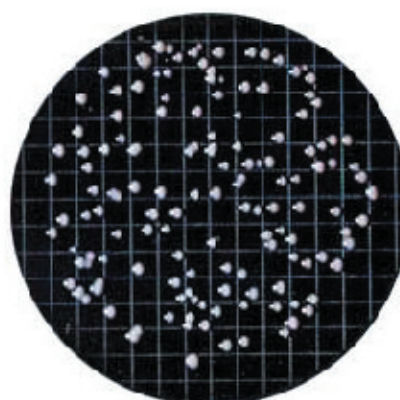
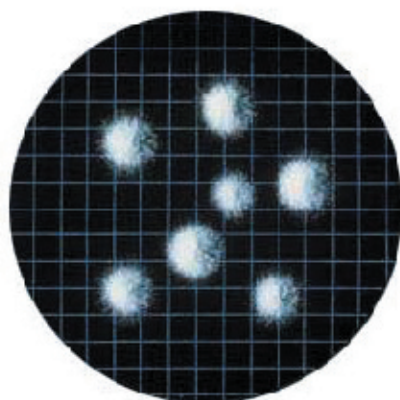
Color: white or black

Surface: plain or gridded

Wet ability: hydrophilic

Sterilization: Sterilized by gamma irradiation

USP Class VI Testing	Passed
Thickness	120 ±10µm
Extractable	<4% - Boiling Water
Maximum Operating Temperature	90° C
Sealing Compatibility	Ultrasonic, Heat
Pore Size Range	0.1 to 10.0 µm



## Performance Characteristics

Pore Size	Minimum Bubble Point, psi (kg/cm <sup>2</sup> )	Typical Flow Rate, ml/min/cm <sup>2</sup> @10psi (0.7 kg/cm <sup>2</sup> )
0.1 µm	80(5.6)	6
0.2 µm	40(2.8)	23
0.45 µm	26(1.8 )	46
0.8 µm	14(0.95)	80
1.2 µm	8(0.6)	120
5.0 µm	5(0.4)	300
10.0 µm	3(0.2)	400

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## Order Information

Item	Description	Package Pcs/Pk
White MCE Gridded Membrane Filter		
AM47MC22SW	Sterilized , White, 0.22(μm), 47(mm)	200
AM47MC45SW	Sterilized , White, 0.45(μm), 47(mm)	200
AM47MC80SW	Sterilized , White, 0.80(μm), 47(mm)	200
AM50MC22SW	Sterilized , White, 0.22(μm), 50(mm)	200
AM50MC45SW	Sterilized , White, 0.45(μm), 50(mm)	200
AM50MC80SW	Sterilized , White, 0.80(μm), 50(mm)	200
Black MCE Gridded Membrane Filter		
AM47MC22SB	Sterilized ,Black, 0.22(μm), 47(mm)	200
AM47MC45SB	Sterilized , Black, 0.45(μm), 47(mm)	200
AM47MC80SB	Sterilized , Black, 0.80(μm), 47(mm)	200
AM50MC22SB	Sterilized , Black, 0.22(μm), 50(mm)	200
AM50MC45SB	Sterilized , Black, 0.45(μm), 50(mm)	200
AM50MC80SB	Sterilized , Black, 0.80(μm), 50(mm)	200

Diameter 25mm, 35mm, 60mm are available on request.

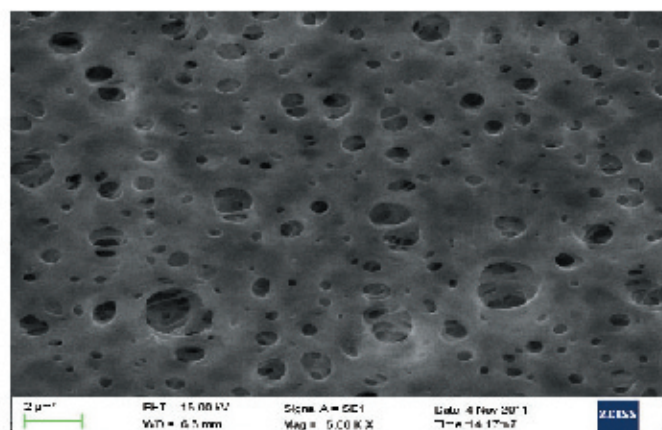
## AISIMO PES membrane



**AISIMO PES membrane** filters are hydrophilic filters constructed from pure polyethersulfone and available in pore sizes ranging from 0.03 micron to 5.0 micron. PES membrane filters are designed to remove particulates during general filtration. Their low protein and drug binding characteristics also make PES membrane disc filters ideally suited for use in life science applications. This membrane is specifically designed for biological, analytical, electronic, pharmaceutical, beverage, and sterilizing filtration applications.

### Applications

- Bacterial removal
- Biosensors
- HPLC flowing particle removal
- Drug filtration
- Organic solvents filtration IV filters
- Lateral flow assays
- Particulate removal



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## Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
USP Class VI Testing	Passed
Thickness	110 ±10µm
Extractables	<1% - Boiling Water
Pore Size Range	0.1 to 10.0 µm
Maximum Operating Temperature	100° C
Sealing Compatibility	Ultrasonic, Heat

Pore Size (µm)	Bubble Point (Mpa)	Typical Flow Rate (mL/min·cm²@0.2Mpa)
0.10	5.6	0.9
0.22	3.4	2.5
0.45	2.8	6.0
0.60	1.9	9.3
0.80	1.1	12.4
1.20	0.6	18.5

## Ordering Information

Catalog	Description
0.22µm Pore Size	
AM13PS22	PES membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25PS22	PES membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47PS22	PES membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90PS22	PES membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142PS22	PES membrane filter, 142mm , 0.22µm, 100pcs/pk
0.45µm Pore Size	
AM13PS45	PES membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25PS45	PES membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PS45	PES membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PS45	PES membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142PS45	PES membrane filter, 142mm , 0.45µm, 100pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.



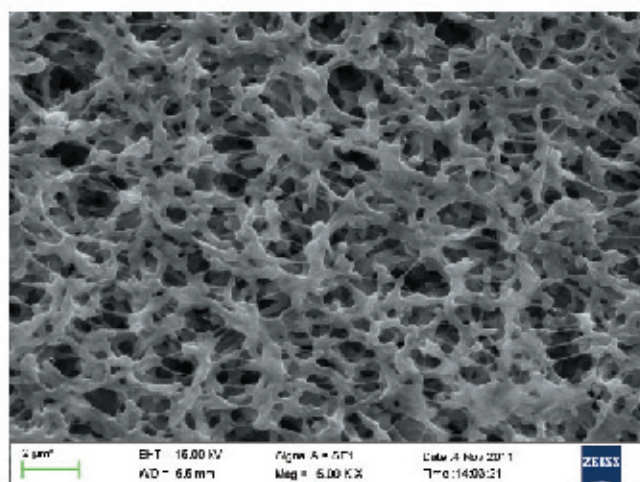
## AISIMO PVDF membrane



**AISIMO PVDF membrane** is a versatile 100% high temperature resistant polyvinylidene difluoride membrane. It is designed to provide strength, flexibility and chemical compatibility to meet the rigorous and demanding requirements of chemical filtration applications. Incorporated with no wetting agents, filtration membrane is also an ideal cost-effective alternative to polytetrafluoroethylene membrane to prevent moisture blockage in venting and gas filtration.

### Application

- Bacterial removal
- HPLC flowing particle removal
- Drug filtration
- Organic solvents filtration
- Air filtration
- Venting



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## Products Feature & Specification

- Stack consists of reinforced-type PVDF membrane. Possess superior properties of heat-resistance and chemical-resistance
- Holds the opposite capability against hydrophilic membrane
- Can ensure wet air and other gas pass through smoothly, even when the differential pressure is very low. But the water liquid can't permeate.

## Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)		
Absorption	0.2μm membrane	absorption capability:	8μg/cm2 γ-globulin
Extractable	<1% - Boiling Water		
Maximum Operating Temperature	121° C		
Sealing Compatibility	Ultrasonic, Heat		
Pore Size Range	0.03 to 10.0μm		

Catalog	Pore Size (μm)	Minimum Bubble Point (Mpa)	Air Flowrate (L/min·cm²@ 0.01MPa)	Water Flowrate (mL/min·cm²@ 0.2Mpa)	Support Material
Hydrophobic	0.10	0.16	0.5	-	Spunbonded PET
	0.22	0.12	0.7	-	
	0.45	0.07	1	-	
	1.0	0.035	1.7	-	
Hydrophilic	0.10	0.16	-	1.7	Non, spunbonded PP, PET
	0.22	0.12	-	5.0	
	0.45	0.07	-	6.7	
	1.0	0.03	-	13.3	

## Ordering Information

Catalog	Description
0.22μm Pore Size, Hydrophobic	
AM13PVB22	PVDF membrane filter, 13mm , 0.22μm, 400pcs/pk
AM25PVB22	PVDF membrane filter, 25mm , 0.22μm, 200pcs/pk
AM47PVB22	PVDF membrane filter, 47mm , 0.22μm, 200pcs/pk
AM90PVB22	PVDF membrane filter, 90mm , 0.22μm, 100pcs/pk

AM142PVB22	PVDF membrane filter, 142mm , 0.22µm, 100pcs/pk
0.45µm Pore Size, Hydrophobic	
AM13PVB45	PVDF membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25PVB45	PVDF membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PVB45	PVDF membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PVB45	PVDF membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142PVB45	PVDF membrane filter, 142mm , 0.45µm, 100pcs/pk
0.22µm Pore Size, Hydrophilic	
AM13PVL22	PVDF membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25PVL22	PVDF membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47PVL22	PVDF membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90PVL22	PVDF membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142PVL22	PVDF membrane filter, 142mm , 0.22µm, 100pcs/pk
0.45µm Pore Size, Hydrophilic	
AM13PVL45	PVDF membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25PVL45	PVDF membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PVL45	PVDF membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PVL45	PVDF membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142PVL45	PVDF membrane filter, 142mm , 0.45µm, 100pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.



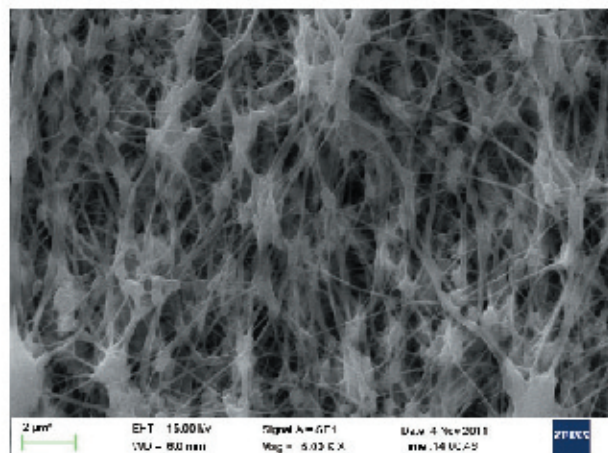
## AISIMO PTFE membrane



**AISIMO PTFE membrane** filters for filtration are made of PTFE (polytetrafluoroethylene), and were drawn 2-dimensions. It is micro-pore film. The PTFE membrane was laminated with a 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 plants, filtration and separation of antibacterial fluid, production of medicine, air conditioning of hospitals and commercial buildings.

### Application

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



## Products Feature and specification

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

## Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)	
Extractable	<1% - Boiling Water	
Maximum Temperature	Operating	125° C
Width(mm)	260, 320(360), 540(520), 600	
Thickness(μm)	70-200	
Sealing Compatibility	Ultrasonic, Heat	
Pore Size Range	0.03 to 10.0μm	

Catalog	Pore Size (μm)	Minimum Bubble Point (Mpa)	Air Flow rate (L/min·cm²@ 0.01MPa)	Water Flow rate (mL/min·cm²@ 0.2Mpa)	Support Material
Hydrophobic PTFE (PP, PET)	0.10	0.16	0.5	3.3	Spunbonded PET
	0.22	0.12	0.83	5.0	
	0.45	0.07	1.17	6.7	
	1.0	0.035	1.83	10.0	
Hydrophilic PTFE (PP, PET)	0.10	0.16	-	1.7	Non, Spunbonded PP, PET
	0.22	0.12	-	5.0	
	0.45	0.07	-	6.7	
	1.0	0.03	-	13.3	

## Ordering Information

Catalog	Description
0.22μm Pore Size Hydrophobic	
AM13PTB22	PTFE membrane filter, 13mm , 0.22μm, 400pcs/pk

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AM25PTB22	PTFE membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47PTB22	PTFE membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90PTB22	PTFE membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142PTB22	PTFE membrane filter, 142mm , 0.22µm, 100pcs/pk
0.45µm Pore Size Hydrophobic	
AM13PTB45	PTFE membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25PTB45	PTFE membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PTB45	PTFE membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PTB45	PTFE membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142PTB45	PTFE membrane filter, 142mm , 0.45µm, 100pcs/pk
0.22µm Pore Size Hydrophilic	
AM13PTL22	PTFE membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25PTL22	PTFE membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47PTL22	PTFE membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90PTL22	PTFE membrane filter, 90mm , 0.22µm, 100pcs/pk
0.45µm Pore Size Hydrophilic	
AM13PTL45	PTFE membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25PTL45	PTFE membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PTL45	PTFE membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PTL45	PTFE membrane filter, 90mm , 0.45µm, 100pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

## AISIMO PM 2.5 Air Monitoring PTFE Membrane

AISIMO PM 2.5 air monitoring PTFE membrane is manufactured in 100-thousand-grade clean room, Eliminates the particle contamination from the workshop. The PM2.5 PTFE membrane has low chemical background and free of adhesives.

### ISO 9001 Quality Standard

This product was manufactured in AISIMO facility that Quality Management System is approved by an accredited registering body to the appropriate ISO9001:2008 Quality Systems Standard. Each membrane filter was manufactured in a clean room which environment is controlled.

### Declaration of Compliance

AISIMO PM 2.5 air monitoring PTFE membrane is manufactured conforms to EPA PM 2.5 criteria.

### Technical Specifications

Property Test Method Unit of Measure Value Range				
Property	Test Method	Unit of Measure	Value	Range
Filter Media	-	-	PTFE	-
Filter Diameter	Template	mm	46.2	±0.25
Filter Thickness	-	µm	40	±10
Support Ring Material	-	-	Polypropylene	-
Support Ring Thickness	-	mm	0.4	±0.04
Support Ring Width	Template	mm	3.6	±0.00 to 0.5
Particle Retention(0.3µm)	ASTM D 2986-91	%	99.7	Minimum
Pressure drop (0.3µm) @ 16.67 l/min	ASTM D 2986-91	cm H <sub>2</sub> O	30	Maximum
Alkalinity	Section 2.12 EPA/600/R-94/038B	µeq/g of filter	<25	Maximum
Drop Test Wt. Loss Stability	Section 2.12 Epa/600/R-94/038B	µg	<20	Maximum
Temperature Wt. Loss Stability	Section 2.12 Epa/600/R-94/038B	µg	<20	Maximum
Moisture Wt. Gain Stability	Section 2.12 Epa/600/R-94/038B	µg	<10	Maximum

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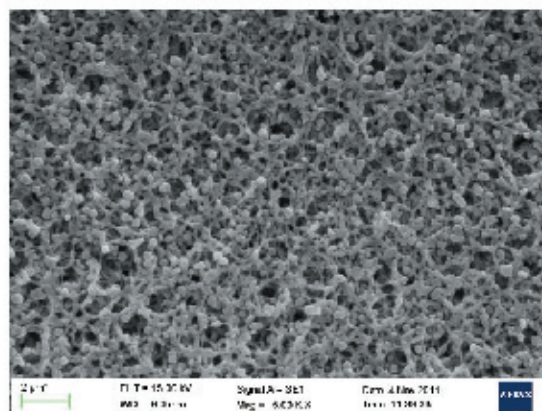
## AISIMO Polypropylene (PP) Membrane



**AISIMO Polypropylene Membrane filter** are best suited for industrial processes such as gas filtration, chemical processes and photo-resist production as well as for application in the automotive industry. Since polypropylene is a pure hydrocarbon material, there are no disposal problems relating to halogen content with PP membrane in contrast with other hydrophobic membranes such as PVDF or PTFE.

### Application

- Aqueous and organic solvent filtration
- HPLC Solvent and Sample Filtration
- Ion chromatography
- Gas filtration
- Photo-resist production



### Performance Characteristics

Pore Size ( $\mu\text{m}$ )	Bubble Point (Mpa)	Typical Flowrate (mL/min·cm <sup>2</sup> @0.2Mpa)
0.10	2	2.5
0.22	0.8	8.5
0.45	0.2	15.9

## Ordering Information

Catalog	Description
0.22µm Pore Size	
AM25PP22	PP membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47PP22	PP membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90PP22	PP membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142PP22	PP membrane filter, 142mm , 0.22µm, 100pcs/pk
AM293PP22	PP membrane filter, 293mm , 0.22µm, 25pcs/pk
0.45µm Pore Size	
AM25PP45	PP membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47PP45	PP membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90PP45	PP membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142PP45	PP membrane filter, 142mm , 0.45µm, 100pcs/pk
AM293PP45	PP membrane filter, 293mm , 0.45µm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.



## AISIMO Regenerated Cellulose (RC) membrane



**AISIMO Regenerated Cellulose (RC) membrane** is a hydrophilic, solvent resistant, low protein binding membrane. Ideal for removing particulates from HPLC samples prior to injection. Be compatible with all HPLC solvents. Use for particle removal and degassing of solvents. RC membranes are also compatible with aqueous solutions in the 3 to 12 pH range. Extractable with water are less than 1%. RC membranes exhibit low, non-specific adsorption – good for biological sample filtration where maximum protein recovery is important. When used with a glass prefilter, RC is ideal for tissue culture media filtration, as well as general biological sample filtration.

### Features and benefits

- Spontaneously wet, very good wet strength
- Extremely chemically resistant; suitable for aqueous and organic media
- Hydrophilic
- Mechanically stable
- Sterilizable by all methods

### Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
Extractable	<1% - Boiling Water



Maximum Temperature	Operating 110° C
Thickness(μm)	100
Sealing Compatibility	Ultrasonic, Heat
Pore Size Range	0.03 to 10.0μm

Pore Size (μm)	Minimum Bubble Point (Mpa)	Water Flowrate (mL/min·cm <sup>2</sup> @0.2Mpa)
0.10	0.16	1.7
0.22	0.12	5.0
0.45	0.07	6.7
1.0	0.03	13.3

### Ordering Information

Catalog	Description
0.22μm Pore Size	
AM13RC22	RC membrane filter, 13mm , 0.22μm, 400pcs/pk
AM25RC22	RC membrane filter, 25mm , 0.22μm, 200pcs/pk
AM47RC22	RC membrane filter, 47mm , 0.22μm, 200pcs/pk
AM90RC22	RC membrane filter, 90mm , 0.22μm, 100pcs/pk
AM142RC22	RC membrane filter, 142mm , 0.22μm, 100pcs/pk
AM293RC22	RC membrane filter, 293mm , 0.22μm, 25pcs/pk
0.45μm Pore Size	
AM13RC45	RC membrane filter, 13mm , 0.45μm, 400pcs/pk
AM25RC45	RC membrane filter, 25mm , 0.45μm, 200pcs/pk
AM47RC45	RC membrane filter, 47mm , 0.45μm, 200pcs/pk
AM90RC45	RC membrane filter, 90mm , 0.45μm, 100pcs/pk
AM142RC45	RC membrane filter, 142mm , 0.45μm, 100pcs/pk
AM293RC45	RC membrane filter, 293mm , 0.45μm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

To place an order, please send item number and quantity to [info@aisimo.com](mailto:info@aisimo.com)

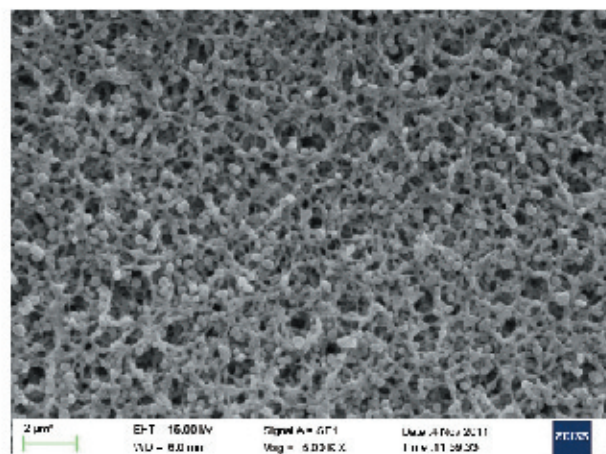
## AISIMO Cellulose acetate (CA) membrane



**AISIMO Cellulose Acetate (CA)membrane** filters combine high flow rates and thermal stability with very low adsorption characteristics and are therefore excellently suited for use in pressure filtration devices. The membrane with 0.2 $\mu$ m is the filter of choice for sterile filtration of aqueous solutions, such as nutrient media, buffers and sera. The results of publications on adsorption are difficult to correlate, as mostly different test substances, conditions and detection methods were used, and the membranes were tested without previously being sterilized.

### Application

- Bacterial removal
- Biosensors
- HPLC flowing particle removal
- Drug filtration
- Organic solvents filtration IV filters
- Lateral flow assays
- Particulate removal



## Feature and Specification

- Ideal for use in general filtration or medical assays
- High wick rates (lateral flow), substances move quickly through the membrane
- Uniform pore structure provides consistent flow and diffusion rates
- Superior strength, withstands aggressive handling or can be used with automated equipment without breaking or tearing
- Exceptional sensitivity, detects low-level components
- Lot-to-lot consistency, quality checks produce dependable results every time

## Product Characteristics

Sterilization	Gamma Irradiation or Ethylene Oxide (EtO)
USP Class VI Testing	Passed
Thickness	80 ±10µm
Extractable	<4% - Boiling Water
Maximum Operating Temperature	90° C
Sealing Compatibility	Ultrasonic, Heat
Pore Size Range	0.10 to0.65µm

Pore Size (µm)	Minimum Bubble Point (Mpa)	Typical Flow Rate (ml/min·cm²@0.2Mpa)
0.10	0.44	1.3
0.22	0.29	3.4
0.45	0.20	5.0
0.65	0.15	9.8

## Ordering Information

Catalog	Description
0.22µm Pore Size	
AM13CA22	CA membrane filter, 13mm , 0.22µm, 400pcs/pk
AM25CA22	CA membrane filter, 25mm , 0.22µm, 200pcs/pk
AM47CA22	CA membrane filter, 47mm , 0.22µm, 200pcs/pk
AM90CA22	CA membrane filter, 90mm , 0.22µm, 100pcs/pk
AM142CA22	CA membrane filter, 142mm , 0.22µm, 100pcs/pk
AM293CA22	CA membrane filter, 293mm , 0.22µm, 25pcs/pk

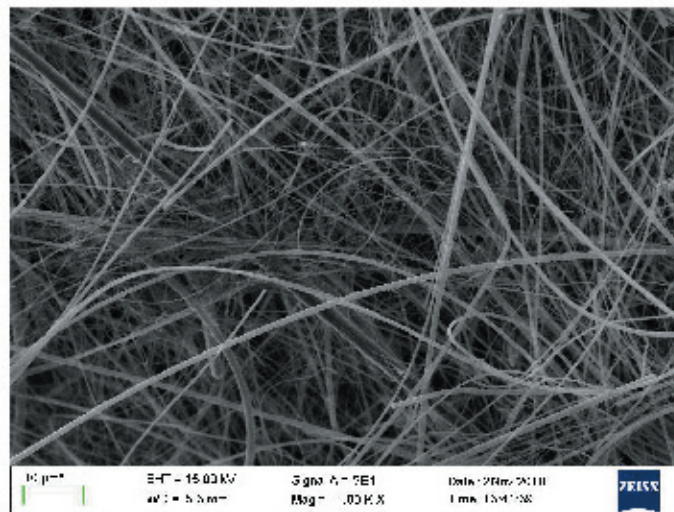
To place an order, please send item number and quantity to [info@aisimo.com](mailto:info@aisimo.com)

0.45µm Pore Size	
AM13CA45	CA membrane filter, 13mm , 0.45µm, 400pcs/pk
AM25CA45	CA membrane filter, 25mm , 0.45µm, 200pcs/pk
AM47CA45	CA membrane filter, 47mm , 0.45µm, 200pcs/pk
AM90CA45	CA membrane filter, 90mm , 0.45µm, 100pcs/pk
AM142CA45	CA membrane filter, 142mm , 0.45µm, 100pcs/pk
AM293CA45	CA membrane filter, 293mm , 0.45µm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.



### AISIMO Glass fiber filter



**AISIMO Glass fiber filters** is manufactured from 100% borosilicate glass. These depth filters combine fast flow rate with high loading capacity and retention of fine particulates. The small diameter fibers give micro glass media superior efficiency and dirt holding as compared to cellulose and synthetic media.

## Features

- Be made of borosilicate glass fiber without binders or binder.
- Stability at high temperatures: It keeps its properties up to 500°C-180°C for Grade GF10.
- Be usable as Pre-filter for membranes to prevent the membranes from silting up.
- Large surface area provides an outstanding retention capacity.
- Be in high flow speed and high permeability to air.
- Reduce filtration costs and premature clogging when filtering difficult-to-filter or highly contaminated solutions.
- Excellent wet strength for easy handling and filter integrity.

Binder free glass fiber:

- Grade GFA:

Highly efficient for general laboratory filtration

### Clarification of buffer and reagent solutions

Corresponds to many international standards for air and water pollution monitoring

- Grade GFB:

Thicker than GF A with higher wet strength and significantly increased loading capacity , Suitable for filtration of large volumes

Pre-filter for membranes

### Filtration of suspended solids in water/waste water analysis

- Grade GFC:

The standard filter in many parts of the world for the collection of suspended solids in potable water and natural and industrial wastes

Widely used for cell harvesting, liquid scintillation counting and binding assays where more loading capacity is required

- Grade GF D:

Universal membrane pre-filter material

Filtration in food industry

- Grade GFF:

GF F is the material upon which the EPA Method TCLP 1311 for Toxicity

Filtering extremely fine precipitates, protein, nucleic acids, or serum precipitates

### Cross Reference

AISIMO	GFA	GFB	GFC	GFD	GFF
Whatman	GF/A	GF/B	GF/C	GF/D	GF/F

### Specifications

Grade	Weight (g/m <sup>2</sup> )	Thickness (mm)	Pore size (μm)	Maximum Temperature (°C)	Binder
GFA	56	0.29	1.6	500	Free
GFB	140	1	1	500	Free
GFC	54	0.28	1.2	500	Free
GFD	120	0.53	2.7	500	Free
GFF	75	0.4	0.7	500	Free

### Ordering Information

Catalog	Description
AISIMO GFA 1.6μm Pore Size Binder Free	
AMGA2516	Glass fiber filter, 25mm, 1.6μm, 100pcs/pk
AMGA4716	Glass fiber filter, 47mm, 1.6μm, 100pcs/pk
AMGA9016	Glass fiber filter, 90mm, 1.6μm, 100pcs/pk
AMGA11016	Glass fiber filter, 110mm, 1.6μm, 100pcs/pk
AMGA14216	Glass fiber filter, 142mm, 1.6μm, 100pcs/pk
AMGA29316	Glass fiber filter, 293mm, 1.6μm, 25pcs/pk

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**AISIMO GFB 1.0µm Pore Size Binder Free**

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AMGB2510	Glass fiber filter, 25mm, 1.0µm, 100pcs/pk
AMGB4710	Glass fiber filter, 47mm, 1.0µm, 100pcs/pk
AMGB9010	Glass fiber filter, 90mm, 1.0µm, 100pcs/pk
AMGB11010	Glass fiber filter, 110mm, 1.0µm, 100pcs/pk
AMGB14210	Glass fiber filter, 142mm, 1.0µm, 100pcs/pk
AMGB29310	Glass fiber filter, 293mm, 1.0µm, 25pcs/pk

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**AISIMO GFC 1.2µm Pore Size Binder Free**

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AMGC2512	Glass fiber filter, 25mm, 1.2µm, 100pcs/pk
AMGC4712	Glass fiber filter, 47mm, 1.2µm, 100pcs/pk
AMGC9012	Glass fiber filter, 90mm, 1.2µm, 100pcs/pk
AMGC11012	Glass fiber filter, 110mm, 1.2µm, 100pcs/pk
AMGC14212	Glass fiber filter, 142mm, 1.2µm, 100pcs/pk
AMGC29312	Glass fiber filter, 293mm, 1.2µm, 25pcs/pk

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**AISIMO GFD 2.7µm Pore Size Binder Free**

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AMGD2527	Glass fiber filter, 25mm, 2.7µm, 100pcs/pk
AMGD4727	Glass fiber filter, 47mm, 2.7µm, 100pcs/pk
AMGD9027	Glass fiber filter, 90mm, 2.7µm, 100pcs/pk
AMGD11027	Glass fiber filter, 110mm, 2.7µm, 100pcs/pk
AMGD14227	Glass fiber filter, 142mm, 2.7µm, 100pcs/pk
AMGD29327	Glass fiber filter, 293mm, 2.7µm, 25pcs/pk

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**AISIMO GFF 0.7µm Pore Size Binder Free**

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AMGF2507	Glass fiber filter, 25mm, 0.7µm, 100pcs/pk
AMGF4707	Glass fiber filter, 47mm, 0.7µm, 100pcs/pk
AMGF9007	Glass fiber filter, 90mm, 0.7µm, 100pcs/pk
AMGF11007	Glass fiber filter, 110mm, 0.7µm, 100pcs/pk
AMGF14207	Glass fiber filter, 142mm, 0.7µm, 100pcs/pk
AMGF29307	Glass fiber filter, 293mm, 0.7µm, 25pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

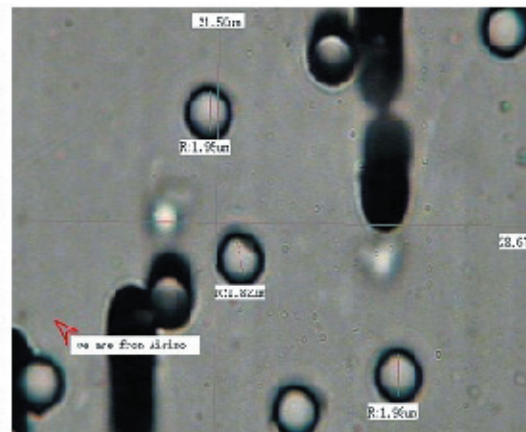
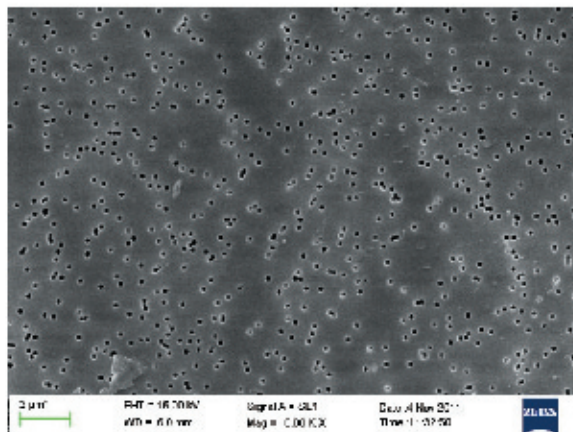
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### AISIMO Track-etched polycarbonate (PC) membrane

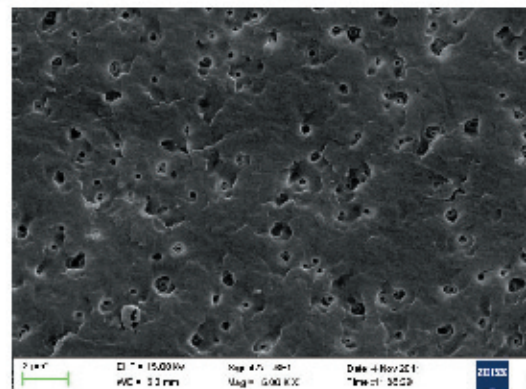
**AISIMO** Track-etched polycarbonate (PC) membranes are manufactured from high-quality polycarbonate film. PC membranes have a smooth flat surface and exhibit very low levels of extractable. They have sharply defined pore sizes, high flow rates, and excellent chemical and thermal resistance. They are suitable for the detection of particles in many corrosive fluids because of this broad chemical compatibility.

## Electron microscope photos



## Applications

- Bioassays
- Cell biology
- Fuel testing
- Parasitology
- Air analysis
- Water microbiology
- Environmental analysis
- Epifluorescence microscopy



Competitor M

## Products Feature & Specification

- Smooth glass-like surface with cylindrical pores for maximum particulate capture
- Suitable for air monitoring
- Lowest, non-specific binding membrane
- Precise pore sizes and pore distribution for absolute filtration and separation
- Non-staining, providing an exceptional background for sample observations



- Very low extractable
- Biologically inert
- Optically transparent in most pore sizes
- Excellent chemical resistance and thermal stability
- Capture of samples on a flat, smooth, glass-like surface, with even distribution in one plane
- Exceptionally low tare weights, non-hygrosopic, and low trace element level
- Superior strength

### Product Characteristics

Pore Size ( $\mu\text{m}$ )	Pore density (Pores/ $\text{cm}^2$ )	Thickness ( $\mu\text{m}$ )	Flow Rate	
			Water (ml/min/ $\text{cm}^2$ )	Air (ml/min/ $\text{cm}^2$ )
8	$1 \times 10^5$	17	1000	30
5	$4 \times 10^5$	20	700	30
3	$2 \times 10^6$	22	440	37.5
2	$2 \times 10^6$	22	285	28.75
1	$2 \times 10^7$	24	130	20
0.8	$2 \times 10^7$	24	90	7.8
0.6	$3 \times 10^7$	24	60	7.5
0.4	$1 \times 10^8$	25	33	7.5
0.2	$3 \times 10^8$	25	10	3
0.1	$1 \times 10^9$	25	2.5	1.5
0.08	$1 \times 10^9$	25	-	0.011
0.05	$>1 \times 10^9$	25	-	0.011
0.03	$>1 \times 10^9$	25	-	0.011

### Ordering Information

Catalog	Description
AM47PC0015	PC membrane filter, 47mm, 0.015um, 100pcs/pk
AM47PC0030	PC membrane filter, 47mm, 0.03um, 100pcs/pk
AM47PC0050	PC membrane filter, 47mm, 0.05um, 100pcs/pk
AM47PC0080	PC membrane filter, 47mm, 0.08um, 100pcs/pk
AM47PC0100	PC membrane filter, 47mm, 0.1um, 100pcs/pk
AM47PC0200	PC membrane filter, 47mm, 0.2um, 100pcs/pk

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AM47PC0400	PC membrane filter, 47mm, 0.4um, 100pcs/pk
AM47PC0600	PC membrane filter, 47mm, 0.6um, 100pcs/pk
AM47PC0800	PC membrane filter, 47mm, 0.8um, 100pcs/pk
AM47PC1000	PC membrane filter, 47mm, 1.0um, 100pcs/pk
AM47PC2000	PC membrane filter, 47mm, 2.0um, 100pcs/pk
AM47PC3000	PC membrane filter, 47mm, 3.0um, 100pcs/pk
AM47PC5000	PC membrane filter, 47mm, 5.0um, 100pcs/pk
AM47PC8000	PC membrane filter, 47mm, 8.0um, 100pcs/pk
AM47PC10000	PC membrane filter, 47mm, 10.0um, 100pcs/pk
AM47PC12000	PC membrane filter, 47mm, 12.0um, 100pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.

## AISIMO Micro-Quartz Fiber Filters

- Binder-free
- High purity quartz (SiO<sub>2</sub>) micro fiber filter is used for air sampling in acidic gases, stacks, flues and aerosols
- Particularly at high temperatures up to 950°C and in PM-10 testing
- Because of the low level of alkaline earth metals, products of sulfates and nitrates (from SO<sub>2</sub> and NO<sub>2</sub>) are virtually eliminated
- Sequentially numbered according to EPA standards, is suitable for most applications

### Products Feature & Specification

- AQF3P conditioned by high temperature preheating
- Each batch AQF3P is trace elements certified
- Made of extremely pure micro-quartz fibers
- Binder-free
- Particularly suitable for low amount of particles

### Typical properties for AQF3P and AQF2

Grade	Basis Weight g/m <sup>2</sup>	Efficiency*%	Pressure Drop**mBar	Penetration* %	Temperature °C
AQF2	85	99.95	51.5	<0.05	900max
AQF3P	85	99.95	51.5	<0.05	900max

\*1.2-3um

\*\* A>10cm<sup>2</sup>,flow velocity 40cm/s

### Typical Levels of Trace Elements in mg/kg

Element	AL	As	Cd	Co	Cr	Cu	Fe	Hg	V
AQF2	50	0.75	1.5	1	5	1.25	30	<0.05	0.5
AQF3P	25	0.2	<0.02	<0.5	3.5	<1	20	<0.025	<0.5
Element	Mg	Mn	Na	Ni	Pb	Sb	Sn	Ti	Zn
AQF2	25	1.25	40	2	0.75	1.25	0.5	2.5	5
AQF3P	15	1	10	0.5	0.3	<1	<0.5	1.5	3

### Order Information :

#### AQF2 Series

Items	Description
AQF237	Diameter:37mm , 50pcs/pk
AQF247	Diameter:47mm , 50pcs/pk
AQF24725	Outside diameter:47mm , Inside diameter:25mm , 50pcs/pk
AQF250	Diameter:50mm , 50pcs/pk
AQF281	Diameter:81mm , 50pcs/pk
AQF28122	Outside diameter:81mm , Inside diameter:22mm , 50pcs/pk
AQF290	Diameter:90mm , 50pcs/pk

#### AQF3P Series

Items	Description
AQF373P	Diameter:37mm , 50pcs/pk
AQF473P	Diameter:47mm , 50pcs/pk
AQF47253P	Outside diameter:47mm , Inside diameter:25mm , 50pcs/pk
AQF503P	Diameter:50mm , 50pcs/pk
AQF813P	Diameter:81mm , 50pcs/pk
AQF81223P	Outside diameter:81mm , Inside diameter:22mm , 50pcs/pk
AQF903P	Diameter:90mm , 50pcs/pk

Other sizes, sheets, rolls and special cuts are available on request.



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