

# MS® Membrane Filters



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- [Glass Fiber Membrane Filter](#)
- [PTFE Membrane Filter](#)
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## Introduction

Membrane filters or "membranes" are microporous films with specific pore size ratings. Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.

Membrane Solutions offers membrane discs in diameters from 13mm to 293mm and materials including [PES](#) , [MCE](#), [Nylon](#), [PVDF](#) , [PTFE](#) , [PP](#) , and [GF](#) which are manufactured in ISO 9001 certified facilities.

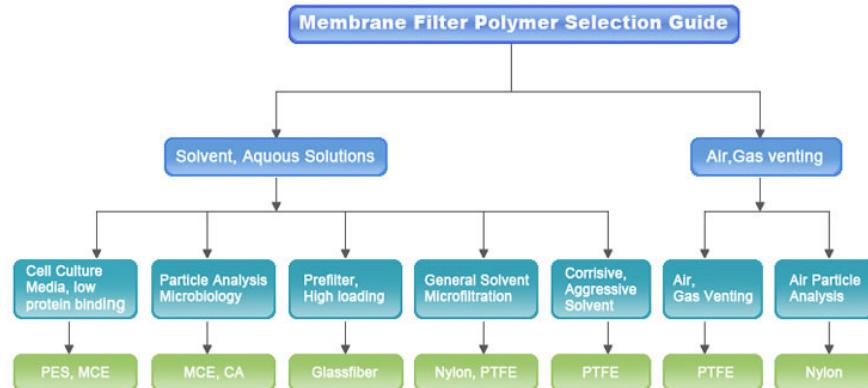
Membrane Solutions's Chemical Compatibility Chart will help you choose the right type of membrane for your application.

Membrane Type	Pore Size Range•um•	Diameter/ other option Available	PDF catalogue
PES	0.05- 0.65	13, 25,47,90,142,293	
MCE	0.22- 5.0	13,25,37,47,90,142, 293/grid, black, sterile	
PTFE	0.1 -3.0	13, 25,47,90,142,293	
NYLON	0.1- 5.0	13, 25,47,90,142,293	

<u>GLASS FIBER</u>	0.5• 1.0• 2.0	13, 25,47,90,142,293
<u>CA</u>	0.2- 3.0	13, 25,47,90,142,293
<u>PVDF</u>	0.22 – 0.45	13, 25,47,90,142,293

## Application

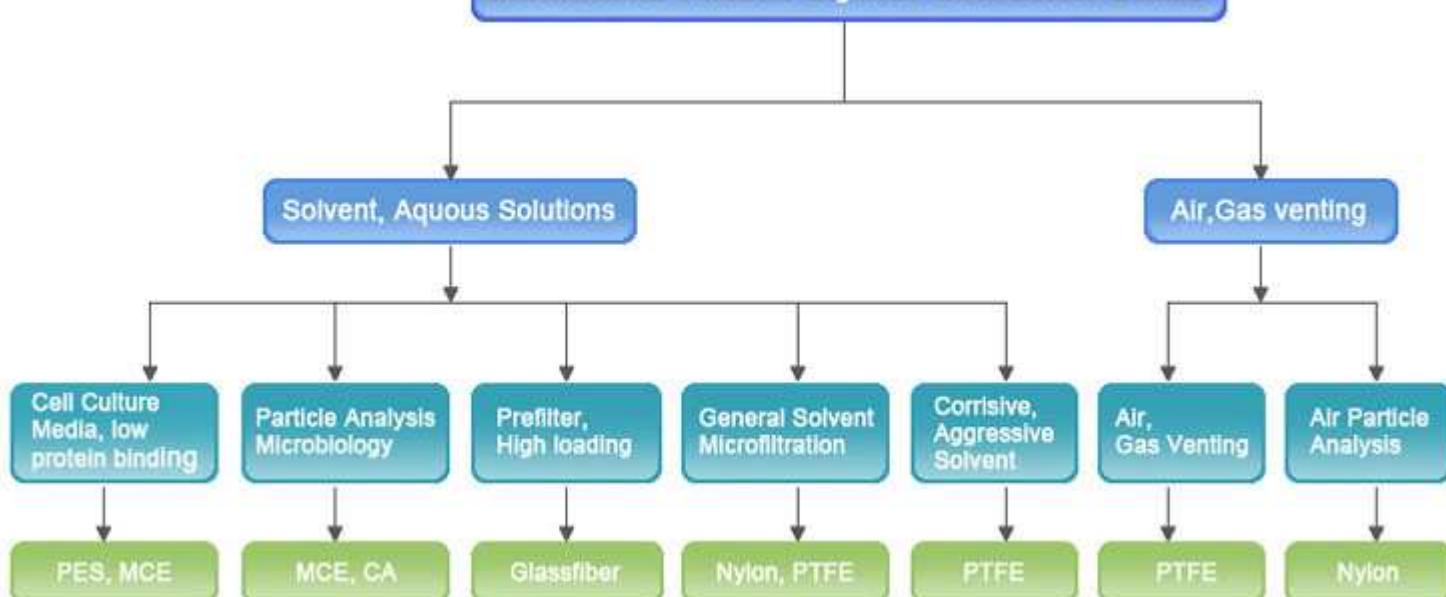
- General clean and filtration
  - Sample Prep
  - Environmental Monitoring and Analysis
  - Filtration of Aqueous and Organic Solutions
  - Fluid Monitoring
  - Pharmaceutical Products Analysis
  - Chromatography and Mass Spec Sample Prep
  - Venting and Gas Filtration
- — —



## Features

- High Porosity: Membrane Solution's thin membrane with high porosity provide high liquid and gas flow per unit area. High porosity also provides high surface area for adsorption or binding
- Diversity: Membrane solutions LLC carries many different types of membrane filter which you can easily find your application in one of our membranes.
- Clean: As part of comprehensive quality program, only high purity raw materials and reagents are used to produce Membrane Solutions membranes.
- Strong: Membrane Solutions's membranes are monitored for both burst and tensile strength. PTFE and Nylon are very strong for most aggressive applications.

## Membrane Filter Polymer Selection Guide



# MS® Mixed Cellulose Esters (MCE) Membrane Filter



MS® mixed cellulose ester•MCE•membrane filters are composed of cellulose acetate and cellulose nitrate. Because MCE membrane is biologically inert, it's one of the most widely used membranes in analytical and research applications. MCE membrane filter is characterized by a smoother and more uniform surface than pure nitrocellulose filter. Also, the color contrast provided by the filter surface facilitates particle detection and minimizes eye fatigue.

Many microbiological techniques include colony counting after incubation as the standard method of quantification. Gridded filters have clearly defined grid lines spaced at 3.1 mm intervals. The special ink used is nontoxic and completely free from bacterial growth inhibitors. White gridded disks are designed for the recovery and retention of E. Coli bacteria in water/wastewater analysis as well as other microbiological tests. Black mixed cellulose esters(MCE) are available plain for automatic colony counting applications, as well as gridded to assist in manual counting procedures. Black MCE membranes provide contrast between residue or cell colors and the filter without having to counter-stain the membrane.

Membrane solutions, LLC also supply sterile gridded membrane filters with or without pads.

## Features

- High porosity
- High protein binding can be blocked by pretreatment or utilized in applications
- High purity: Triton-free
- Sterile options available for critical applications

- Biologically inert with good thermal stability
- High degree of internal surface area for greater adsorption of product

## Applications

Application	Color	Pore Size(µm)
Microdialysis of DNA and proteins	White	0.1
Sterilizing filtration, bioassays	White	0.22
Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassays	White	0.3
Clarification of aqueous solutions, particle removal and analysis, microbiology analysis	White	0.45
Fluorescent bacteriological assays, particle monitoring, bioassays	Black	0.45
Particle monitoring, particle removal, dairy microbiology, retention of yeasts, molds and algae	White	0.65
Air monitoring, particle monitoring, particle removal, bioassays	White	0.8
Fluorescent assays, particle monitoring, air monitoring	Black	0.8
Clarification of aqueous solutions	White	1
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	White	3
QC of fluid holding tanks, fluid monitoring, particle collection and analysis	White	5
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	White	8

## Specifications

Pore Size(µm)	Color	Bubble Point (Bar)	Water Flow Rate (mL/min/ cm <sup>2</sup> )	Air Flow Rate (L/min/cm <sup>2</sup> )	Pore%
8.0	White	0.40	600	63	84
5.0	White	0.56	560	30	84
3.0	White	0.69	320	28	83
1.0	White	0.77	270	20	82

0.8	Black	1.15	180	15	82
0.8	White	0.95	180	15	82
0.65	White	1.18	135	9	81
0.45	Black	2.35	60	5	79
0.45	White	2.23	60	5	79
0.22	White	3.62	19	2	75
0.1	White	14.1	1.6	0.5	74

### Order Information

Item#	Description	Pcs per box
MFGM047800WS	Gridded Membrane Filter 8.00um 47mm 100/pk Gama sterile	100
MFMCE013010W	MCE Membrane Filter, 0.10um, 13mm 200/pk	200
MFMCE013022	MCE Membrane Filter, Pore:0.22(μm), Diameter:13(mm)	200
MFMCE013045	MCE Membrane Filter, Pore:0.45(μm), Diameter:13(mm)	200
MFMCE013065W	MCE Membrane Filter, 0.65um, 13mm 200/pk	200
MFMCE013080	MCE Membrane Filter, Pore:0.8(μm), Diameter:13(mm)	200
MFMCE013100	MCE Membrane Filter, Pore:1.0(μm), Diameter:13(mm)	200
MFMCE013120W	MCE Membrane Filter, 1.20um, 13mm 200/pk	200
MFMCE013300	MCE Membrane Filter, Pore:3.0(μm), Diameter:13(mm)	200
MFMCE013500	MCE Membrane Filter, Pore:5.0(μm), Diameter:13(mm)	200
MFMCE025010W	MCE Membrane Filter, 0.10um, 25mm 200/pk	200
MFMCE025022	MCE Membrane Filter, Pore:0.22(μm), Diameter:25(mm)	200

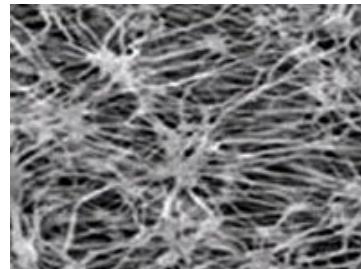
MFMCE025022BN	Membrane Filter, Black, Non-sterile, Pore:0.22(μm), Diameter:25(mm)	200	MFMCE025100	MCE Membrane Filter, Pore:1.0(μm), Diameter:25(mm)	200
MFMCE025022GBS	Gridded Membrane Filter 0.22um 25mm 100/pk Black Gama sterile	100	MFMCE025100GWN	Gridded Membrane Filter, White, Non-sterile, Pore:1.0(μm), Diameter:25(mm)	200
MFMCE025022GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.22(μm), Diameter:25(mm)	200	MFMCE025100GWS	Gridded Membrane Filter, White, Sterile, Pore:1.0(μm), Diameter:25(mm)	200
MFMCE025022GWS	Gridded Membrane Filter, White, Sterile, Pore:0.22(μm), Diameter:25(mm)	200	MFMCE025120W	MCE Membrane Filter, 1.20um, 25mm 200/pk	200
MFMCE025045	MCE Membrane Filter, Pore:0.45(μm), Diameter:25(mm)	200	MFMCE025300	MCE Membrane Filter, Pore:3.0(μm), Diameter:25(mm)	200
MFMCE025045BN	Membrane Filter, Black, Non-sterile, Pore:0.45(μm), Diameter:25(mm)	200	MFMCE025500	MCE Membrane Filter, Pore:5.0(μm), Diameter:25(mm)	200
MFMCE025045GBN	Gridded Membrane Filter 0.45um 25mm 100/pk, non-sterile	100	MFMCE037022	MCE Membrane Filter, Pore:0.22(μm), Diameter:37(mm)	200
MFMCE025045GBS	Gridded Membrane Filter 0.45um 25mm 100/pk Black Gama sterile	100	MFMCE037022GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.22(μm), Diameter:37(mm)	200
MFMCE025045GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.45(μm), Diameter:25(mm)	200	MFMCE037022GWS	Gridded Membrane Filter, White, Sterile, Pore:0.22(μm), Diameter:37(mm)	200
MFMCE025045GWS	Gridded Membrane Filter, White, Sterile, Pore:0.45(μm), Diameter:25(mm)	200	MFMCE037045	MCE Membrane Filter, Pore:0.45(μm), Diameter:37(mm)	200
MFMCE025065GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.65(μm), Diameter:25(mm)	200	MFMCE037045GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.45(μm), Diameter:37(mm)	200
MFMCE025065GWS	Gridded Membrane Filter, White, Sterile, Pore:0.65(μm), Diameter:25(mm)	200	MFMCE037045GWS	Gridded Membrane Filter, White, Sterile, Pore:0.45(μm), Diameter:37(mm)	200
MFMCE025065W	MCE Membrane Filter, 0.65um, 25mm 200/pk	200	MFMCE037065GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.65(μm), Diameter:37(mm)	200
MFMCE025080	MCE Membrane Filter, Pore:0.8(μm), Diameter:25(mm)	200	MFMCE037065GWS	Gridded Membrane Filter, White, Sterile, Pore:0.65(μm), Diameter:37(mm)	200
MFMCE025080GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.8(μm), Diameter:25(mm)	200	MFMCE037080	MCE Membrane Filter, Pore:0.8(μm), Diameter:37(mm)	200
MFMCE025080GWS	Gridded Membrane Filter, White, Sterile, Pore:0.8(μm), Diameter:25(mm)	200	MFMCE037080GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.8(μm), Diameter:37(mm)	200

MFMCE037080GWS	Gridded Membrane Filter, White, Sterile, Pore:0.8(μm), Diameter:37(mm)	200	MFMCE047045GBN	Gridded Membrane Filter, Black, Non-sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE037100	MCE Membrane Filter, Pore:1.0(μm), Diameter:37(mm)	200	MFMCE047045GBS	Gridded Membrane Filter, Black, sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE037100GWN	Gridded Membrane Filter, White, Non-sterile, Pore:1.0μm, Diameter:37(mm)	200	MFMCE047045GBSP	Gridded Membrane Filter with pad, Black, non-sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE037100GWS	Gridded Membrane Filter, White, Sterile, Pore:1.0(μm), Diameter:37(mm)	200	MFMCE047045GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE037300	MCE Membrane Filter, Pore:3.0(μm), Diameter:37(mm)	200	MFMCE047045GWS	Gridded Membrane Filter, White, Sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE037500	MCE Membrane Filter, Pore:5.0(μm), Diameter:37(mm)	200	MFMCE047045GWSp	Gridded Membrane Filter with pad, White, Sterile, Pore:0.45(μm), Diameter:47(mm)	200
MFMCE047010W	MCE Membrane Filter, 0.10um, 47mm 100/pk	100	MFMCE047045WS	Membrane Filter, White, sterile, Pore:0.45(μm), Diameter:47(mm)	100
MFMCE047022	MCE Membrane Filter, Pore:0.22(μm), Diameter47(mm)	200	MFMCE047065BS	Membrane Filter, Black, sterile, Pore:0.65(μm), Diameter:47(mm)	100
MFMCE047022B	MCE Membrane Filter 0.22um 47mm 100/pk Black	100	MFMCE047065GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.65(μm), Diameter:47(mm)	200
MFMCE047022GBS	Gridded Membrane Filter 0.22um 47mm 100/pk Black Gama sterile	100	MFMCE047065GWS	Gridded Membrane Filter, White, Sterile, Pore:0.65(μm), Diameter:47(mm)	200
MFMCE047022GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.22(μm), Diameter:47(mm)	200	MFMCE047065W	MCE Membrane Filter, 0.65um, 47mm 100/pk	100
MFMCE047022GWS	Gridded Membrane Filter, White, Sterile, Pore:0.22(μm), Diameter:47(mm)	200	MFMCE047080	MCE Membrane Filter, Pore:0.8(μm), Diameter:47(mm)	200
MFMCE047022WS	MCE Membrane Filter, White, sterile, Pore:0.22(μm), Diameter:47(mm), Sterile	200	MFMCE047080BS	Membrane Filter, Black, sterile, Pore:0.8(μm), Diameter:47(mm)	200
MFMCE047045	MCE Membrane Filter, Pore:0.45(μm), Diameter47(mm)	200	MFMCE047080GBN	Gridded Membrane Filter, Black, Non-sterile, Pore:0.8(μm), Diameter:47(mm)	200
MFMCE047045B	Membrane Filter, Black, Pore:0.45(μm), Diameter:47(mm)	200	MFMCE047080GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.8(μm), Diameter:47(mm)	200
MFMCE047045BS	Membrane Filter, Black, sterile, Pore:0.45(μm), Diameter:47(mm)	200	MFMCE047080GWS	Gridded Membrane Filter, White, Sterile, Pore:0.8(μm), Diameter:47(mm)	200

MFMCE050022GBS	Gridded Membrane Filter 0.22um 50mm 100/pk Black Gama sterile	100	MFMCE060022W	MCE Membrane Filter, 0.22um, 60mm 100/pk	100
MFMCE050022GWN	Gridded Membrane Filter 0.22um 50mm 100/pk	100	MFMCE060045B	MCE Membrane Filter 0.45um 60mm 100/pk Black	100
MFMCE050022GWS	Gridded Membrane Filter 0.22um 50mm 100/pk Gama sterile	100	MFMCE060045GBN	Gridded Membrane Filter 0.45um 60mm 100/pk, Black, non-sterile	100
MFMCE050045B	MCE Membrane Filter 0.45um 50 mm 100/pk Black	100	MFMCE060045GBS	Gridded Membrane Filter 0.45um 60mm 100/pk Black Gama sterile	100
MFMCE050045GBN	Gridded Membrane Filter 0.45um 50mm 100/pk, Black , no-sterile	100	MFMCE060045GWN	Gridded Membrane Filter 0.45um 60mm) 100/pk	100
MFMCE050045GBS	Gridded Membrane Filter 0.45um 50mm 100/pk Black Gama sterile	100	MFMCE060045GWS	Gridded Membrane Filter 0.45um 60mm 100/pk Gama sterile	100
MFMCE050045GWN	Gridded Membrane Filter, White, Non-sterile, Pore:0.45(μm), Diameter:50(mm)	200	MFMCE060045W	MCE Membrane Filter, 0.45um, 60mm 100/pk	100
MFMCE050045GWS	Gridded Membrane Filter, White, Sterile, Pore:0.45(μm), Diameter:50(mm), individually packed	200	MFMCE060065W	MCE Membrane Filter, 0.65um, 60mm 100/pk	100
MFMCE050045W	MCE Membrane Filter, 0.45um, 50 mm 100/pk	100	MFMCE060080W	MCE Membrane Filter, 0.80um, 60mm 100/pk	100
MFMCE050065W	MCE Membrane Filter, 0.65um, 50 mm 100/pk	100	MFMCE060120W	MCE Membrane Filter, 1.20um, 60mm 100/pk	100
MFMCE050080W	MCE Membrane Filter, 0.80um, 50 mm 100/pk	100	MFMCE060300W	MCE Membrane Filter, 3.00um, 60mm 100/pk	100
MFMCE050120W	MCE Membrane Filter, 1.20um, 50 mm 100/pk	100	MFMCE060500W	MCE Membrane Filter, 5.00um, 60mm 100/pk	100
MFMCE050300W	MCE Membrane Filter, 3.00um, 50 mm 100/pk	100	MFMCE080080	MCE Membrane Filter,Pore:0.8(μm), Diameter:80(mm)	100
MFMCE050500W	MCE Membrane Filter, 5.00um, 50 mm 100/pk	100	MFMCE090010W	MCE Membrane Filter, 0.10um, 90mm 50/pk	50
MFMCE060010W	MCE Membrane Filter, 0.10um, 60mm 100/pk	100	MFMCE090022	MCE Membrane Filter, Pore:0.22(μm), Diameter:90(mm)	100
MFMCE060022B	MCE Membrane Filter 0.22um 60mm 100/pk Black	100	MFMCE090045	MCE Membrane Filter, Pore:0.45(μm), Diameter:90(mm)	100
MFMCE060022GBS	Gridded Membrane Filter 0.22um 60mm 100/pk Black Gama sterile	100	MFMCE090065W	MCE Membrane Filter, 0.65um, 90mm 50/pk	50
MFMCE060022GWN	Gridded Membrane Filter 0.22um 60mm) 100/pk	100	MFMCE090080	MCE Membrane Filter,Pore:0.8(μm), Diameter:90(mm)	100
MFMCE060022GWS	Gridded Membrane Filter 0.22um 60mm 100/pk Gama sterile	100	MFMCE090100	MCE Membrane Filter,, Pore:1.0(μm), Diameter:90(mm)	100

MFMCE090300	MCE Membrane Filter,, Pore:3.0(μm), Diameter:90(mm)	MFMCE293022	MCE Membrane Filter, Pore:0.22(μm), Diameter:293(mm)	25
MFMCE090500	MCE Membrane Filter, Pore:5.0(μm), Diameter:90(mm)	MFMCE293045	MCE Membrane Filter, Pore:0.45(μm), Diameter:293(mm)	25
MFMCE110010W	MCE Membrane Filter, 0.10um, 110mm 50/pk	MFMCE293065W	MCE Membrane Filter, 0.65um, 293mm 25/pk	25
MFMCE110022W	MCE Membrane Filter, 0.22um, 110mm 50/pk	MFMCE293080	MCE Membrane Filter, Pore:0.8(μm), Diameter:293(mm)	25
MFMCE110045W	MCE Membrane Filter, 0.45um, 110mm 50/pk	MFMCE293100	MCE Membrane Filter, Pore:1.0(μm), Diameter:293(mm)	25
MFMCE110065W	MCE Membrane Filter, 0.65um, 110mm 50/pk	MFMCE293120W	MCE Membrane Filter, 1.20um, 293mm 25/pk	25
MFMCE110120W	MCE Membrane Filter, 1.20um, 110mm 50/pk	MFMCE293300	MCE Membrane Filter, Pore:3.0(μm), Diameter:293(mm)	25
MFMCE110300W	MCE Membrane Filter, 5.00um, 110mm 50/pk	MFMCE293500	MCE Membrane Filter, Pore:5.0(μm), Diameter:293(mm)	25
MFMCE110500W	MCE Membrane Filter, 5.00um, 110mm 50/pk	MFMCE4745GBN1000	Gridded Membrane Filter, Black, Non-sterile, Pore:0.45(μm), Diameter:47(mm)	1000
MFMCE142010W	MCE Membrane Filter, 0.10um, 142mm 25/pk	MFMCE4745GBS1000	Gridded Membrane Filter, Black, sterile, Pore:0.45(μm), Diameter:47(mm)	1000
MFMCE142022	MCE Membrane Filter,Pore:0.22(μm), Diameter:142(mm)	MFMCE4745GBSP1000	Gridded Membrane Filter with pad, Black, non- sterile, Pore:0.45(μm), Diameter:47(mm)	1000
MFMCE142045	MCE Membrane Filter,Pore:0.45(μm), Diameter:142(mm)	MFMCE4745GWS1000	Gridded Membrane Filter, White, Sterile, Pore:0.45(μm), Diameter:47(mm)	1000
MFMCE142065W	MCE Membrane Filter, 0.65um, 142mm 25/pk	MFMCE4745GWSP1000	Gridded Membrane Filter with pad, White, Sterile, Pore:0.45(μm), Diameter:47(mm)	1000
MFMCE142080	MCE Membrane Filter, Pore:0.8(μm), Diameter:142(mm)	MFPTFE037022B	PTFE Membrane Filter, 0.22um, 37mm, Hydrophobic 100/pk	100
MFMCE142100	MCE Membrane Filter,Pore:1.0(μm), Diameter:142(mm)	MFPTFE050022B	PTFE Membrane Filter, 0.22um, 50mm, Hydrophobic 100/pk	100
MFMCE142120W	MCE Membrane Filter, 1.20um, 142mm 25/pk	MFPTFE050045B	PTFE Membrane Filter, 0.45um, 50mm, Hydrophobic 100/pk	100
MFMCE142300	MCE Membrane Filter,Pore:3.0(μm), Diameter:142(mm)	MFPTFE050100B	PTFE Membrane Filter, 1.0um, 50mm, Hydrophobic 100/pk	100
MFMCE142500	MCE Membrane Filter, Pore:5.0(μm), Diameter:142(mm)			
MFMCE142500W	MCE Membrane Filter, 5.00um, 142mm 25/pk			
MFMCE293010W	MCE Membrane Filter, 0.10um, 293mm 25/pk			

# MS® PTFE Membrane Filter



[PP Membrane Filter](#)

[CA Membrane Filter](#)

[PP Mesh Filter](#)

[Nylon Mesh Filter](#)

[PC Membrane Filter](#)

[RC Membrane Filter](#)

[Cartridge Filter](#)

[Filter Bag](#)

## Product Description

MS®PTFE membrane media for filtration is made of PTFE (polytetrafluoroethylene), and were drawn 2-dimension. It is micro-pore film. The PTFE membrane was laminated with great variety of fabric and paper. They are new filter media. Applied to extensive industries, including biochemistry, microelectronic, 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.

[PTFE Membrane Filter](#)

## 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

### Application

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

### Technical Parameter

Product Types	Substrate	Thickness ( $\mu\text{m}$ )	Pore Size( $\mu\text{m}$ )	Bubble Point In IPA(MPa)	Air Perm( $\text{m}^3/\text{m}^2\text{24hr}$ ) ( $\Delta P=0.01\text{MPa}$ )	Maximum Temperature(°)
PTFE	PP	160±40	0.45	0.08-0.13	500-800	150-170
PTFE	PP	160±40	0.22	0.14-0.16	300-500	150-170
PTFE	PET	140±20	0.45	0.08-0.14	500-800	250
PTFE	PET	140±20	0.22	0.14-0.18	300-500	250

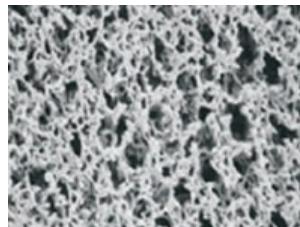
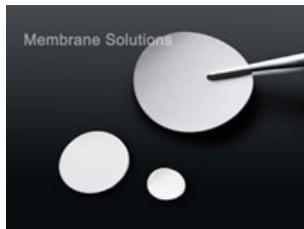
### Order Information

Item#	Description	Pcs per box
MFPTFE013010B	PTFE Membrane Filter, Pore:0.1( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013022B	PTFE Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013022L	PTFE Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013045B	PTFE Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013045L	PTFE Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013080B	PTFE Membrane Filter, Pore:0.8( $\mu\text{m}$ ), Diameter:13(mm)	50
MFPTFE013100B	PTFE Membrane Filter, Pore:1.0( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013300B	PTFE Membrane Filter, Pore:3.0( $\mu\text{m}$ ), Diameter:13(mm)	200
MFPTFE013500B	PTFE Membrane Filter, 5.00um, 13mm, 200/pack	200
MFPTFE025010B	PTFE Membrane Filter, Pore:0.1( $\mu\text{m}$ ), Diameter:25(mm)	200
MFPTFE025022B	PTFE Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:25(mm)	200

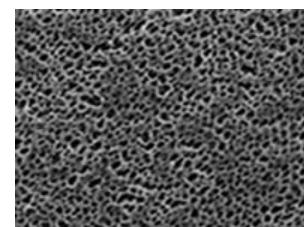
MFPTFE025022L	PTFE Membrane Filter, Pore:0.22(μm), Diameter:25(mm), Hydrophilic	200	MFPTFE090045B	PTFE Membrane Filter, Pore:0.45(μm), Diameter:90(mm)	100
MFPTFE025045B	PTFE Membrane Filter, Pore:0.45(μm), Diameter:25(mm)	200	MFPTFE090045L	PTFE Membrane Filter,90mm, Hydrophilic,0.45um,1pk/100pcs	100
MFPTFE025045L	PTFE Membrane Filter,25mm, Hydrophilic,0.45um,1pk/100pcs	100	MFPTFE090100B	PTFE Membrane Filter, Pore:1.0(μm), Diameter:90(mm)	100
MFPTFE025100B	PTFE Membrane Filter, Pore:1.0(μm), Diameter:25(mm)	200	MFPTFE090100L	PTFE Membrane Filter,90mm, Hydrophilic,1.0um,1pk/100pcs	100
MFPTFE025100L	PTFE Membrane Filter,25mm, Hydrophilic,1.0um,1pk/100pcs	100	MFPTFE090300B	PTFE Membrane Filter, Pore:3.0(μm), Diameter:90(mm)	100
MFPTFE025300B	PTFE Membrane Filter, Pore:3.0(μm), Diameter:25(mm)	200	MFPTFE090500B	PTFE Membrane Filter, Pore:5.0(μm), Diameter:90(mm)	100
MFPTFE025500B	PTFE Membrane Filter,25mm, Hydrophobic,5.0um,1pk/100pcs	100	MFPTFE142010B	PTFE Membrane Filter, 0.10um, 142mm, 50/pack	50
MFPTFE037100B	PTFE Membrane Filter, Pore:1.0(μm), Diameter:37(mm)	200	MFPTFE142045B	PTFE Membrane Filter, Pore:0.45(μm), Diameter:142(mm)	50
MFPTFE0421000B	PTFE Membrane Filter, Pore:10.0(μm), Diameter:42(mm)	200	MFPTFE142100B	PTFE Membrane Filter, Pore:1.0(μm), Diameter:142(mm)	50
MFPTFE047005	PTFE Membrane Filter, Pore:0.05(μm), Diameter:47(mm)	200	MFPTFE142300B	PTFE Membrane Filter, Pore:3.0(μm), Diameter:142(mm)	50
MFPTFE047010B	PTFE Membrane Filter, Pore:0.1(μm), Diameter:47(mm)	200	MFPTFE142500B	PTFE Membrane Filter, 5.00um, 142mm, 50/pack	50
MFPTFE047022B	PTFE Membrane Filter, Pore:0.22(μm), Diameter:47(mm)	200	MFPTFE150022B	PTFE Membrane Filter,150mm, Hydrophobic,0.22um,1pk/100pcs	100
MFPTFE047022L	PTFE Membrane Filter, Pore:0.22(μm), Diameter:47(mm)	200	MFPTFE150022L	PTFE Membrane Filter,150mm, Hydrophilic,0.22um,1pk/100pcs	100
MFPTFE047045B	PTFE Membrane Filter, Pore:0.45(μm), Diameter:47(mm)	200	MFPTFE150045B	PTFE Membrane Filter,150mm, Hydrophobic,0.45um,1pk/100pcs	100
MFPTFE047045L	PTFE Membrane Filter,47mm, Hydrophilic,0.45um,1pk/100pcs	100	MFPTFE150045L	PTFE Membrane Filter,150mm, Hydrophilic,0.45um,1pk/100pcs	100
MFPTFE047080B	PTFE Membrane Filter, Pore:0.8(μm), Diameter:47(mm)	200	MFPTFE150100B	PTFE Membrane Filter,150mm, Hydrophobic,1.0um,1pk/100pcs	100
MFPTFE047100B	PTFE Membrane Filter, Pore:1.0(μm), Diameter:47(mm)	200	MFPTFE150100L	PTFE Membrane Filter,150mm, Hydrophilic,1.0um,1pk/100pcs	100
MFPTFE047100L	PTFE Membrane Filter,47mm, Hydrophilic,1.0um,1pk/100pcs	100	MFPTFE150500B	PTFE Membrane Filter,150mm, Hydrophobic,5.0um,1pk/100pcs	100
MFPTFE047300B	PTFE Membrane Filter, Pore:3.0(μm), Diameter:47(mm)	200	MFPTFE293010B	PTFE Membrane Filter, Pore:0.1(μm), Diameter:293(mm)	25
MFPTFE047500B	PTFE Membrane Filter, Pore:5.0(μm), Diameter:47(mm)	200	MFPTFE293022B	PTFE Membrane Filter, Pore:0.22(μm), Diameter:293(mm)	25
MFPTFE090010B	PTFE Membrane Filter, Pore:0.1(μm), Diameter:90(mm)	100			
MFPTFE090022B	PTFE Membrane Filter, Pore:0.22(μm), Diameter:90(mm)	100			
MFPTFE090022I	PTFE Membrane Filter, Pore:0.22(μm), Diameter:90(mm), Hydrophilic	100			

MFPTFE293022L	PTFE Membrane Filter,293mm, Hydrophilic,0.22um,1pk/100pcs	100
MFPTFE293045B	PTFE Membrane Filter, Pore:0.45(μm), Diameter:293(mm)	25
MFPTFE293045L	PTFE Membrane Filter,293mm, Hydrophilic,0.45um,1pk/100pcs	100
MFPTFE293100B	PTFE Membrane Filter,290mm, Hydrophobic,1.0um,1pk/100pcs	100
MFPTFE293300B	PTFE Membrane Filter, Pore:3.0(μm), Diameter:293(mm)	25
MFPTFE293500B	PTFE Membrane Filter,290mm, Hydrophobic,5.0um,1pk/100pcs	100
SFPTFE025200N	Nonsterile PTFE Syringe Filters, 2.00um, 25mm, 100/pk	100

# MS® Nylon Membrane Filter



Magnification of Nylon filter



Nylon Membrane SEM

## Product Description

MS® Nylon membrane filter is a supported, naturally hydrophilic membrane designed to wet out evenly and retain its superior strength during use in general filtration or medical assays, eliminating the need for wetting agents that could be extracted when filtering aqueous solutions. Nylon membrane filters are flexible, durable and tear resistant, and can be autoclaved at 135° C.

High-quality nylon membrane filters are suitable for filtering aqueous solutions and most organic solvents. Nylon membrane filters are suitable for use with a wide range of biological preparations and can be used where other membranes are unsuitable or difficult to use.

[PDF \[ 6 Page / 1.594KB \]](#)

## Features

- Hydrophilic
- Low extractable
- High surface area
- High protein binding capacity
- Lot-to-lot consistency
- Binds proteins, DNA and RNA
- High strength and heat resistance
- Ideal for use in general filtration or medical assays
- Compatible with aqueous and alcoholic solutions and solvents; suitable for HPLC

## Application

- Bacterial and Particulate removal
- HPLC Solvent and Sample Filtration
- Diagnostic kit manufacturing
- Biosensors
- Blood glucose

- Drug filtration
- Gene probe, Protein and Lateral flow assays
- Serum cholesterol
- IV filters

#### Technical Parameter

Pore size ( $\mu\text{m}$ )	Color	Bubble Point•Bar•	Thickness( $\mu\text{m}$ )	Water Flow Rat (mL/min/cm $^2$ )	Air Flow Rate (L/min/cm $^2$ )
0.01	White	$\geq 4.8$	110±10	4.0	0.6
0.22	White	$\geq 3.4$	110±10	9.9	1.7
0.45	White	$\geq 2.0$	110±10	26.9	3.2
0.8	White	$\geq 0.89$	110±10	80.5	14
1.0	White	$\geq 0.82$	110±10	130.5	16
3.0	White	$\geq 0.59$	110±10	252	24
5.0	White	$\geq 0.41$	110±10	331	36

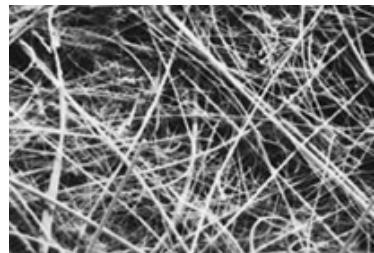
#### Order Information

Item#	Description	Pcs per box	Online Price (US\$)	Order
<a href="#">MFNY013010</a>	Nylon Membrane Filter, Pore:0.1( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013022</a>	Nylon Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013045</a>	Nylon Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013045S</a>	Nylon Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:13 (mm), sterile	100	<a href="#">Ask for Quotes</a>	
<a href="#">MFNY013080</a>	Nylon Membrane Filter, Pore:0.8( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013100</a>	Nylon Membrane Filter, Pore:1.0( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013300</a>	Nylon Membrane Filter, Pore:3.0( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY013500</a>	Nylon Membrane Filter, Pore:5.0( $\mu\text{m}$ ), Diameter:13(mm)	200	71.65	<a href="#">Add to cart</a>
<a href="#">MFNY025010</a>	Nylon Membrane Filter, Pore:0.1( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025022</a>	Nylon Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025045</a>	Nylon Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025080</a>	Nylon Membrane Filter, Pore:0.8( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025100</a>	Nylon Membrane Filter, Pore:1.0( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025120</a>	Nylon Membrane Filter, Pore:1.2( $\mu\text{m}$ ), Diameter:25(mm)	200	<a href="#">Ask for Quotes</a>	
<a href="#">MFNY025300</a>	Nylon Membrane Filter, Pore:3.0( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY025500</a>	Nylon Membrane Filter, Pore:5.0( $\mu\text{m}$ ), Diameter:25(mm)	200	96.32	<a href="#">Add to cart</a>
<a href="#">MFNY047010</a>	Nylon Membrane Filter, Pore:0.1( $\mu\text{m}$ ), Diameter:47(mm)	200	130.06	<a href="#">Add to cart</a>

<a href="#">MFNY047022</a>	Nylon Membrane Filter, Pore:0.22(μm), Diameter:47(mm)	200	<a href="#">MFNY293080</a>	Nylon Membrane Filter, 0.80um, 293mm 25/pk	25
<a href="#">MFNY047045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:47(mm)	200	<a href="#">MFNY293100</a>	Nylon Membrane Filter, Pore:1.0(μm), Diameter:293(mm)	25
<a href="#">MFNY047080</a>	Nylon Membrane Filter, Pore:0.8(μm), Diameter:47(mm)	200	<a href="#">MFNY293300</a>	Nylon Membrane Filter, Pore:3.0(μm), Diameter:293(mm)	25
<a href="#">MFNY047100</a>	Nylon Membrane Filter, Pore:1.0(μm), Diameter:47(mm)	200	<a href="#">MFNY293500</a>	Nylon Membrane Filter, Pore:5.0(μm), Diameter:293(mm)	25
<a href="#">MFNY0471000</a>	Nylon Membrane Filter, Pore:10.0(μm), Diameter:47(mm)	200			
<a href="#">MFNY047200</a>	Nylon Membrane Filter, Pore:2.0(μm), Diameter:47(mm)	200			
<a href="#">MFNY047300</a>	Nylon Membrane Filter, Pore:3.0(μm), Diameter:47(mm)	200			
<a href="#">MFNY047500</a>	Nylon Membrane Filter, Pore:5.0(μm), Diameter:47(mm)	200			
<a href="#">MFNY050022</a>	Nylon Membrane Filter, Pore:0.22(μm), Diameter:50(mm)	200			
<a href="#">MFNY050045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:50(mm)	200			
<a href="#">MFNY060045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:60(mm)	200			
<a href="#">MFNY090010</a>	Nylon Membrane Filter, Pore:0.1(μm), Diameter:90(mm)	200			
<a href="#">MFNY090022</a>	Nylon Membrane Filter, Pore:0.22(μm), Diameter:90(mm)	100			
<a href="#">MFNY090045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:90(mm)	100			
<a href="#">MFNY090100</a>	Nylon Membrane Filter, Pore:1.0(μm), Diameter:90(mm)	100			
<a href="#">MFNY090300</a>	Nylon Membrane Filter, Pore:3.0(μm), Diameter:90(mm)	100			
<a href="#">MFNY090500</a>	Nylon Membrane Filter, Pore:5.0(μm), Diameter:90(mm)	100			
<a href="#">MFNY0A4022</a>	Nylon Membrane Filter, Pore:0.2(μm), A4 size	1			
<a href="#">MFNY142010</a>	Nylon Membrane Filter, Pore:0.1(μm), Diameter:142(mm)	50t			
<a href="#">MFNY142022</a>	Nylon Membrane Filter, Pore:0.22(μm), Diameter:142 (mm)	50			
<a href="#">MFNY142045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:142 (mm)	50			
<a href="#">MFNY142080</a>	Nylon Membrane Filter, 0.80um, 142mm 25/pk	25			
<a href="#">MFNY142100</a>	Nylon Membrane Filter, Pore:1.0(μm), Diameter:142(mm)	50			
<a href="#">MFNY142300</a>	Nylon Membrane Filter, Pore:3.0(μm), Diameter:142(mm)	50			
<a href="#">MFNY142500</a>	Nylon Membrane Filter, Pore:5.0(μm), Diameter:142(mm)	50			
<a href="#">MFNY150022N</a>	Nylon Membrane Filter,150mm,0.22um, 100/pk	100			
<a href="#">MFNY150045N</a>	Nylon Membrane Filter,150mm,0.45um, 100/pk	100			
<a href="#">MFNY293010</a>	Nylon Membrane Filter, Pore:0.1(μm), Diameter:293(mm)	25			
<a href="#">MFNY293022</a>	Nylon Membrane Filter, Pore:0.22(μm), Diameter:293 (mm)	25			
<a href="#">MFNY293045</a>	Nylon Membrane Filter, Pore:0.45(μm), Diameter:293 (mm)	25			

# MS® Glass Fiber Filter

Recommended filters for controlling both air and water pollution and as a pre-filter for Membrane



- [PP Membrane Filter](#)
- [CA Membrane Filter](#)
- [PP Mesh Filter](#)
- [Nylon Mesh Filter](#)
- [PC Membrane Filter](#)
- [RC Membrane Filter](#)
- [Cartridge Filter](#)
- [Filter Bag](#)

## Specifications

### Product Description

MS® Glass fiber filters are 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.

### Glass Fiber Filter

[Quick Pick Reference Chart](#) can help you choose the right application.

### Glass Fiber Filter.pdf

Grade	W
GF A	
GF B	
GF C	
GF D	
GF F	
GF H	
GF 6	
GF 8	
GF 9	
GF 10	

### Cross Reference

Membrane Solutions	GF A	GF B	GF C	GF D	GF F	GF H	GF 6	GF 8	GF 9	GF 10	GF 10
Whatman	GF/A	GF/B	GF/C	GF/D	GF/F	934-AH	GF 6	GF 8	GF 9	GF 10	

### Features

- Made of borosilicate glass fiber without binders or with binder.

- Stability at high temperatures: It keeps its properties up to 500 °C and 180 °C for Grade GF10.
- Usable as Pre-filter for membranes to prevent the membranes from silting up.
- Large surface area provides an outstanding retention capacity.
- 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.

#### **Two types of glass fiber filters are available :**

- *Binder free glass fiber.* Grade GF A, Grade GF B, Grade GF C, Grade GF D, Grade GF F, Grade GF H
- 
- *Binder glass fiber.* Grade GF 6, Grade GF 8•Grade GF 9•Grade GF 10

#### **Grade GF A**

- Highly efficient for general laboratory filtration
- Clarification of buffer and reagent solutions
- Corresponds to many international standards for air and water pollution monitoring

#### **Grade GF B**

- 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 GF C**

- 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 GF F**

- GF F is the material upon which the EPA Method TCLP 1311 for Toxicity
- Use for filtering extremely fine precipitates such as protein, nucleic acids, or serum precipitates

**Grade GF H**

- Suitable for suspended solid analysis
- Cell harvesting
- Air pollution control

SPGFA025160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:25 (mm) 100

SPGFA037160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:37(mm) 100

SPGFA042160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:42.5(mm) 100

SPGFA047160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:47(mm) 100

SPGFA050160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:50(mm) 100

SPGFA055160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:55(mm) 100

SPGFA070160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:70(mm) 100

SPGFA090160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:90(mm) 100

SPGFA110160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:110(mm) 100

SPGFA125160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:125(mm) 100

SPGFA142160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:142(mm) 100

SPGFA150160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:150(mm) 100

SPGFA810160N Glass Fiber Filter, Binder free, Pore:1.6(µm), 8 x 10  
inches 100

SPGFB021100N Glass Fiber Filter, Binder free, Pore:1.0(µm),  
Diameter:21(mm) 100

SPGFB024100N Glass Fiber Filter, Binder free, Pore:1.0(µm),  
Diameter:24(mm) 100

**Grade GF 6**

- Suitable for very fine particles
- Removing protein from difficult-to-filter beers
- Determination of filterable substances and the residue on ignition (dry weight)
- Analysis of aggressive media

SPGFA047160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:47(mm) 100

SPGFA050160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:50(mm) 100

SPGFA055160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:55(mm) 100

SPGFA070160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:70(mm) 100

SPGFA090160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:90(mm) 100

SPGFA110160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:110(mm) 100

SPGFA125160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:125(mm) 100

SPGFA142160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:142(mm) 100

SPGFA150160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:150(mm) 100

SPGFA810160N Glass Fiber Filter, Binder free, Pore:1.6(µm), 8 x 10  
inches 100

SPGFB021100N Glass Fiber Filter, Binder free, Pore:1.0(µm),  
Diameter:21(mm) 100

SPGFB024100N Glass Fiber Filter, Binder free, Pore:1.0(µm),  
Diameter:24(mm) 100

**Grade GF 8 and Grade GF 9**

- Used in the filtration of coarse particles
- Determination of PCB, DDE, DDT, furans and dioxins in the air
- Environmental analysis
- Membrane pre-filter

SPGFA055160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:55(mm) 100

SPGFA070160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:70(mm) 100

SPGFA090160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:90(mm) 100

SPGFA110160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:110(mm) 100

SPGFA125160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:125(mm) 100

SPGFA142160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:142(mm) 100

SPGFA150160N Glass Fiber Filter, Binder free, Pore:1.6(µm),  
Diameter:150(mm) 100

**Order Information**

Item#	Description	Pcs per box	
SPGFA021160N	Glass Fiber Filter, Binder free, Pore:1.6(µm), Diameter:21(mm)	100	SPGFA810160N Glass Fiber Filter, Binder free, Pore:1.6(µm), 8 x 10 inches 100
SPGFA024160N	Glass Fiber Filter, Binder free, Pore:1.6(µm), Diameter:24(mm)	100	SPGFB021100N Glass Fiber Filter, Binder free, Pore:1.0(µm), Diameter:21(mm) 100

**HROMalytic +61(0)3 9762 2034**

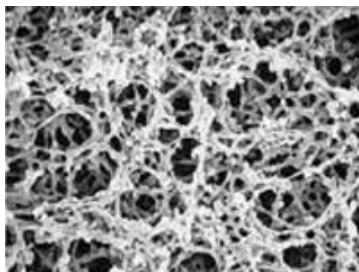
**ECHnology Pty Ltd**

**Australian Distributors; Importers & Manufacturers**

SPGFB025100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:25 (mm)	100	SPGFC025120N	Glass Fiber Filter, Binder free, Pore: 1.2(μm), Diameter:25(mm)	100
SPGFB037100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:37(mm)	100	SPGFC037120N	Glass Fiber Filter, Binder free, Pore: 1.2(μm), Diameter:37(mm)	100
SPGFB042100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:42.5(mm)	100	SPGFC042120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:42.5(mm)	100
SPGFB047100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:47(mm)	100	SPGFC047120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:47(mm)	100
SPGFB050100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:50(mm)	100	SPGFC050120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:50(mm)	100
SPGFB055100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:55(mm)	100	SPGFC055120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:55(mm)	100
SPGFB070100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:70(mm)	100	SPGFC070120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:70(mm)	100
SPGFB090100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:90(mm)	25	SPGFC090120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), Diameter:90(mm)	100
SPGFB110100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:110(mm)	25	SPGFC110120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), Diameter:110(mm)	100
SPGFB125100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:125(mm)	25	SPGFC125120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), Diameter:125(mm)	100
SPGFB142100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:142(mm)	25	SPGFC142120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), Diameter:142(mm)	100
SPGFB150100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), Diameter:150(mm)	25	SPGFC150120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), Diameter:150(mm)	100
SPGFB810100N	Glass Fiber Filter, Binder free, Pore:1.0(μm), 8 x 10 inches	25	SPGFC810120N	Glass Fiber Filter, Binder free, Pore: 1.2 (μm), 8 x 10 inches	100
SPGFC021120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:21(mm)	100	SPGFD021270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:21(mm)	100
SPGFC024120N	Glass Fiber Filter, Binder free, Pore:1.2(μm), Diameter:24(mm)	100	SPGFD024270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:24(mm)	100

SPGFD025270N	Glass Fiber Filter, Binder free, Pore: 2.7(μm), Diameter:25(mm)	100	SPGFF025070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:25(mm)	100
SPGFD037270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:37(mm)	100	SPGFF037070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:37(mm)	100
SPGFD042270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:42.5(mm)	100	SPGFF042070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:42.5(mm)	100
SPGFD047270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:47(mm)	100	SPGFF047070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:47(mm)	100
SPGFD050270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:50(mm)	100	SPGFF050070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:50(mm)	100
SPGFD055270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:55(mm)	100	SPGFF055070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:55(mm)	100
SPGFD070270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:70(mm)	100	SPGFF070070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:70(mm)	100
SPGFD090270N	Glass Fiber Filter, Binder free, Pore:2.7(μm), Diameter:90(mm)	25	SPGFF090070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:90(mm)	25
SPGFD110270N	Glass Fiber Filter, Binder free, Pore: 2.7 (μm), Diameter:110(mm)	25	SPGFF110070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:110(mm)	25
SPGFD125270N	Glass Fiber Filter, Binder free, Pore: 2.7(μm), Diameter:125(mm)	25	SPGFF125070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:125(mm)	25
SPGFD142270N	Glass Fiber Filter, Binder free, Pore: 2.7 (μm), Diameter:142(mm)	25	SPGFF142070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:142(mm)	25
SPGFD150270N	Glass Fiber Filter, Binder free, Pore: 2.7 (μm), Diameter:150(mm)	25	SPGFF150070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), Diameter:150(mm)	25
SPGFD810270N	Glass Fiber Filter, Binder free, Pore: 2.7 (μm), 8 x 10 inches	25	SPGFF810070N	Glass Fiber Filter, Binder free, Pore: 0.7 (μm), 8 x 10 inches	25
SPGFF021070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:21(mm)	100			
SPGFF024070N	Glass Fiber Filter, Binder free, Pore: 0.7(μm), Diameter:24(mm)	100			

# MS® Cellulose Acetate (CA) Membrane Filter



- [PP Membrane Filter](#)
- [CA Membrane Filter](#)
- [PP Mesh Filter](#)
- [Nylon Mesh Filter](#)
- [PC Membrane Filter](#)
- [RC Membrane Filter](#)
- [Cartridge Filter](#)
- [Filter Bag](#)

## Product Description

MS® CA (Cellulose Acetate) membrane filters are composed of pure cellulose acetate modified to offer researchers the lowest binding filters available. Due to the extremely low binding characteristics, these filters provide higher throughputs than competitive offerings and reduce filter changes when filtering proteinaceous solutions.

Because of their unique strength and extremely low binding characteristics, CA (Cellulose Acetate) filters are ideal for protein and enzyme filtrations, tissue culture media sterilization, cold sterilization, biological fluid filtration and other filtration applications where maximum recovery of proteins is critical.

CA (Cellulose Acetate) membranes are manufactured using a unique impregnation process that is internally supported by an inert polyester web eliminates cracking, tearing, breaking and distortion when handled or creased. Each filter has unequalled dimensional stability after autoclaving or steam sterilizing and is completely unaffected by temperatures up to 135°C (275°F). The exclusive impregnation process results in an acetate filter which has a burst strength of 130 psi, uniform pore size and consistent flow rates for reliable performance.

[CA Membrane Filter](#)

## Features

- Lowest binding material available
- Hydrophilic
- High throughput
- Strength and dimension stability
- Uniform pore structure

## Application

- Protein and enzyme filtration, sterilization
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Diagnostic cytology
- Receptor binding studies
- Enhanced recovery of fastidious gram positive organisms

## Technical Parameter

Pore Size( $\mu\text{m}$ )	Thickness ( $\mu\text{m}$ )	Bubble Point (Bar)	Water Flow Rate $\Delta p = 0.9$ bar(mL/min/ $\text{cm}^2$ )	Air Flow Rate(mL/min/ $\text{cm}^2$ ) ( $\Delta P=3\text{mbar}$ )
0.22	115	4	18.5	--
0.45	115	3.1	40	25
0.80	140	1.5	150	50
3.0	140	0.5	500	180
5.0	140	0.4	900	280

## Order Information

Item#	Description	Pcs per box
MFCA013022	CA Membrane Filter, Pore:0.22( $\mu\text{m}$ ), Diameter:13(mm)	200
MFCA013045	CA Membrane Filter, Pore:0.45( $\mu\text{m}$ ), Diameter:13(mm)	200
MFCA013080	CA Membrane Filter, Pore:0.8( $\mu\text{m}$ ), Diameter:13(mm)	200

MFCA013300	CA Membrane Filter, Pore:3.0(µm), Diameter:13(mm)	200
MFCA025022	CA Membrane Filter, Pore:0.22(µm), Diameter:25(mm)	200
MFCA025045	CA Membrane Filter, Pore:0.45(µm), Diameter:25(mm)	200
MFCA025080	CA Membrane Filter, Pore:0.8(µm), Diameter:25(mm)	200
MFCA025300	CA Membrane Filter, Pore:3.0(µm), Diameter:25(mm)	200
MFCA047022	CA Membrane Filter, Pore:0.22(µm), Diameter:47(mm)	200
MFCA047045	CA Membrane Filter, Pore:0.45(µm), Diameter:47(mm)	200
MFCA047045s	CA Membrane Filter, Pore:0.45(µm), Diameter:47(mm), Sterile	100
MFCA047080	CA Membrane Filter, Pore:0.8(µm), Diameter:47(mm)	200
MFCA047300	CA Membrane Filter, Pore:3.0(µm), Diameter:47(mm)	200
MFCA047500	CA Membrane Filter, Pore: 5.00(µm), Diameter:47(mm)	200
MFCA047800	CA Membrane Filter, Pore: 8.00(µm), Diameter:47(mm)	200
MFCA090022	CA Membrane Filter, Pore:0.22(µm), Diameter:90(mm)	100
MFCA090045	CA Membrane Filter, Pore:0.45(µm), Diameter:90(mm)	100
MFCA090080	CA Membrane Filter, Pore:0.8(µm), Diameter:90(mm)	100
MFCA090300	CA Membrane Filter, Pore:3.0(µm), Diameter:90(mm)	100
MFCA142022	CA Membrane Filter, Pore:0.22(µm), Diameter:142(mm)	50
MFCA142045	CA Membrane Filter, Pore:0.45(µm), Diameter:142(mm)	50
MFCA142080	CA Membrane Filter, Pore:0.8(µm), Diameter:142(mm)	50
MFCA142300	CA Membrane Filter, Pore:3.0(µm), Diameter:142(mm)	50
MFCA293022	CA Membrane Filter, Pore:0.22(µm), Diameter:293(mm)	25
MFCA293045	CA Membrane Filter, Pore:0.45(µm), Diameter:293(mm)	25
MFCA293080	CA Membrane Filter, Pore:0.8(µm), Diameter:293(mm)	25
MFCA293300	CA Membrane Filter, Pore:3.0(µm), Diameter:293(mm)	25

# MS® PVDF Hydrophobic Membrane Filter

## (Disc Membrane)



[PP Membrane Filter](#)

[CA Membrane Filter](#)

[PP Mesh Filter](#)

[Nylon Mesh Filter](#)

[PC Membrane Filter](#)

[RC Membrane Filter](#)

### Product Description

PVDF membrane filter, particularly microporous membranes, can be prepared to exhibit high efficiency for particle removal. PVDF membrane has a low critical surface energy and conventional, hydrophobic, microporous PVDF membranes will not wet with aqueous fluids. MS Membrane stack consists of reinforced-type PVDF membrane. It can ensure wet air and other gas pass through smoothly, even when the differential pressure is very low. It holds the opposite capability against PVDF hydrophilic membrane.

[PDF \[ 6 Page / 947KB \]](#)

### Features

- Wide chemical compatibility
- Excellent mechanical properties
- High temperature capabilities and excellent ageing resistance
- Easy processing by extrusion, injection, compression, blow molding, solution processes
- Physiologically harmless and approved for contact with food products -Low extractable levels

### Application

- Chemical Process Industry (pipes and fittings, pumps, valves, ...)
- Off shore oil industry (multilayer structures for oil and gas...)
- High purity fluid transportation
- Wire and cables (communication cable jacketing in the USA, ...)
- Plumbing
- Lithium batteries

### Technical Parameter

Product Types	Pore Size •µm•	Bubble Point•Bar•	Water Flow •ml/min*cm2•
PVDF Membrane on PET	0.22	0.8-1.5	10-15
PVDF Membrane on PET	0.45	0.5-0.7	37-60

### Order Information

Item#	Description	Pcs per box		PVDF Membrane Filter,Pore: 1.0(µm), Diameter: 47 (mm)	200
MFPVDF013022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 13(mm)	200	MFPVDF090022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 90(mm)	100
MFPVDF013045	PVDF Membrane Filter, Pore: 0.45(µm), Diameter: 13(mm)	200	MFPVDF090045	PVDF Membrane Filter, Pore: 0.45(µm), Diameter: 90(mm)	100
MFPVDF025022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 25(mm)	200	MFPVDF142022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 142(mm)	50
MFPVDF025045	PVDF Membrane Filter, Pore: 0.45(µm), Diameter: 25(mm)	200	MFPVDF142045	PVDF Membrane Filter, Pore: 0.45(µm), Diameter: 142(mm)	50
MFPVDF047010	PVDF Membrane Filter, Pore: 0.10(µm), Diameter: 47(mm)	200	MFPVDF142100	PVDF Membrane Filter, Pore: 1.0(µm), Diameter: 142(mm)	50
MFPVDF047022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 47(mm)	200	MFPVDF293022	PVDF Membrane Filter, Pore: 0.22(µm), Diameter: 293(mm)	25
MFPVDF047022GN	PVDF Membrane Filter with grid, 0.22(µm), 47mm, Nonsterile, individual packed	100	MFPVDF293045	PVDF Membrane Filter, Pore: 0.45(µm), Diameter: 293(mm)	25
MFPVDF047045	PVDF Membrane Filter,Pore: 0.45(µm), Diameter: 47 (mm)	200	MFPVDFA4022B	PVDF Membrane Filter, Pore: 0.2(µm), A4 size	1



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MS® Vacuum Filters



## Introduction

Vacuum Filter is used primarily in microbiological and analytical procedures that involve collecting a particulate (bacteria, precipitate, etc.) from a liquid suspension. Liquid poured into a funnel passes through a filter, which retains the particulate, and filtrate can be collected into a filter flask, directly or via a vacuum manifold. Applying vacuum reduces process time compared to gravity flow.

Multi-branch Manifold filter is particular design and produce for several samples filtrate at the same time. At present domestic laboratory filtrate liquid usually adopts the glass nature core, while this method only filtrates one sample once, and it has low speed, low efficiency, and less labor exertion. It is more convenience for the operator who needs to filtrate several samples at the same time. Membrane Solutions supplies a wide range of vacuum filter holders, [Glass Solvent Filters](#), [Multiple Filtration Systems](#), and Accessories. Select from glass or stainless steel assemblies with funnels holding from 15 to 1000 ml. MS® Vacuum filters can be sterilized by autoclave.

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## Application

- Widely used for chemistry analyse
  - Biochemical-pharmaceutical sanitation test environment test
  - Water quality analyse
  - Foodstuffs and beverage test
  - Science research and so on.
  - Vacuum filter aqueous, organic or corrosive liquids for particulate contamination analysis.
  - It is recommended for HPLC solvent filtration and it has the function of outgas to guarantee the clean of mobile phase and avoid the blockage of HPLC liquid flow path.
- 

## Features

### Features and Property

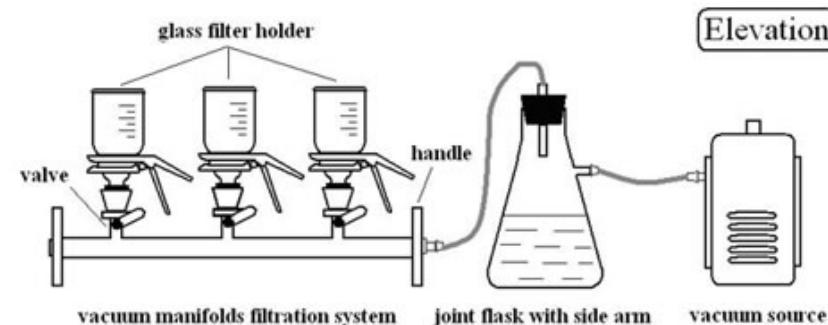
- This product is made of high-quality extra hard glass. It is sparkling and crystal-clear. Its thickness is even.
- The performance of withstanding voltage and its leakproofness is very good. Its size agrees with the international standard size.

Therefore, it can be used for sterilization at high temperature and high pressure.

#### Multiple Vacuum Filtration Systems Feature

- Each holder have individual control valve, agility for use•convenience in antisepsis• high efficiency.
  - Test three or six samples at the same time, high sensitivity, low false –positive, and easy to operation.
- 

#### User Guide for Multiple Vacuum Filtration Systems



#### See Other Related Products

- [Filter Bag](#)
- [Cartridge Filter](#)
- [Microbiology Test Products](#)
- [Membrane Filter Products](#)
- [Syringe Filter Products](#)

Membrane Solutions [Chemical Compatibility Chart](#) will help you choose the right type of membrane for your application.

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