



# CATALOGUE

# Contents

Micropore Microfil™ Syringe Filter .....	2-3
Micropore Chromfil™ Syringe Filter .....	4-5
Micropore 4mm syringe filter.....	6-7
Micropore Sterile Syringe Filter .....	8-15
Micropore Sample Vials.....	16-20
Micropore Bonded Caps .....	21-22
Micropore Insert Vials .....	23
Micropore Fused Insert Vials .....	24-25
Micropore Pure Water Capsule Filter .....	26
Micropore 50mm PTFE Vent Filter.....	27-28
Micropore TC Vent Capsule Filter.....	29-30
Micropore Membrane Filter .....	31-36
Micropore MCE Gridded Membrane .....	37-38
Micropore Filter Paper .....	39-43
Micropore PM1, PM2.5 Monitoring Membrane Filter.....	44-46

## Microfil™ Syringe Filter

Microfil™ Syringe Filter are high quality with qualified raw membranes, Well packaged, and offered a competitive price. The classic range is available in all of the major membranes including Nylon, PTFE, PES, MCE, CA and PVDF, which are Supplied in 4mm, 13mm, 25mm, 33mm formats in virgin Medical polypropylene housing.



## Features

- Application Compatibility: Broad range of filtration media meets diverse application needs
- Minimum Sample Hold-up: Syringe Filters' housings are specifically designed to maximize Sample recovery
- Convenient: Each unit is clearly marked with an identifying code to denote pore size, membrane material
- Sterile: Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

## Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis
- Biofuel analysis
- Environmental samples



## Order information

Cat No.	Membrane	Pore size( $\mu\text{m}$ )	Packing
SF13-022NY	Nylon	0.22 $\mu\text{m}$	100
SF13-045NY	Nylon	0.45 $\mu\text{m}$	100
SF13-022PTFEB	Hydrophobic PTFE	0.22 $\mu\text{m}$	100
SF13-045PTFEB	Hydrophobic PTFE	0.45 $\mu\text{m}$	100
SF13-022PTFEL	Hydrophilic PTFE	0.22 $\mu\text{m}$	100
SF13-045PTFEL	Hydrophilic PTFE	0.45 $\mu\text{m}$	100
SF13-022PVDFL	Hydrophilic PVDF	0.22 $\mu\text{m}$	100
SF13-045PVDFL	Hydrophilic PVDF	0.45 $\mu\text{m}$	100
SF13-022PES	PES	0.22 $\mu\text{m}$	100
SF13-045PES	PES	0.45 $\mu\text{m}$	100
SF13-022CA	CA	0.22 $\mu\text{m}$	100
SF13-045CA	CA	0.45 $\mu\text{m}$	100
SF13-022PP	PP	0.22 $\mu\text{m}$	100
SF13-045PP	PP	0.45 $\mu\text{m}$	100
SF13-022MCE	MCE	0.22 $\mu\text{m}$	100
SF13-045MCE	MCE	0.45 $\mu\text{m}$	100
SF25-022NY	Nylon	0.22 $\mu\text{m}$	100
SF25-045NY	Nylon	0.45 $\mu\text{m}$	100
SF25-022PTFEB	Hydrophobic PTFE	0.22 $\mu\text{m}$	100
SF25-045PTFEB	Hydrophobic PTFE	0.45 $\mu\text{m}$	100
SF25-022PTFEL	Hydrophilic PTFE	0.22 $\mu\text{m}$	100
SF25-045PTFEL	Hydrophilic PTFE	0.45 $\mu\text{m}$	100
SF25-022PVDFL	Hydrophilic PVDF	0.22 $\mu\text{m}$	100
SF25-045PVDFL	Hydrophilic PVDF	0.45 $\mu\text{m}$	100
SF25-022PES	PES	0.22 $\mu\text{m}$	100
SF25-045PES	PES	0.45 $\mu\text{m}$	100
SF25-022CA	CA	0.22 $\mu\text{m}$	100
SF25-045CA	CA	0.45 $\mu\text{m}$	100
SF25-022PP	PP	0.22 $\mu\text{m}$	100
SF25-045PP	PP	0.45 $\mu\text{m}$	100
SF25-022MCE	MCE	0.22 $\mu\text{m}$	100
SF25-045MCE	MCE	0.45 $\mu\text{m}$	100

## Chromfil™ Syringe Filter

Chromfil™ Syringe Filter are high quality with qualified raw membranes, Well packaged, and offered a competitive price. The classic range is available in all of the major membranes including Nylon, PTFE, PES, MCE, CA and PVDF, which are Supplied in 4mm, 13mm, 25mm, 33mm formats in virgin Medical polypropylene housings with gear design for easy handle.



### Features

- Application Compatibility: Broad range of filtration media meets diverse application needs.
- Minimum Sample Hold-up: Syringe Filters' housings are specifically designed to maximize sample recovery.
- Convenient: Each unit is clearly marked with an identifying code to denote pore size, membrane material.
- Sterile: Filters can be purchased pre-sterilized by Gamma radiation and individually packaged.

### Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis
- Biofuel analysis
- Environmental samples



### Order information

Catalogue No.	Membrane	Pore size( $\mu\text{m}$ )	Package
SF13-022NYC	Nylon	0.22	100
SF13-045NYC	Nylon	0.45	100
SF13-022PTFEBC	Hydrophobic PTFE	0.22	100
SF13-045PTFEBC	Hydrophobic PTFE	0.45	100
SF13-022PTFELC	Hydrophilic PTFE	0.22	100
SF13-045PTFELC	Hydrophilic PTFE	0.45	100
SF13-022PVDFLC	Hydrophilic PVDF	0.22	100
SF13-045PVDFLC	Hydrophilic PVDF	0.45	100
SF13-022PESC	PES	0.22	100
SF13-045PESC	PES	0.45	100
SF13-022CAC	CA	0.22	100
SF13-045CAC	CA	0.45	100
SF13-022PPC	PP	0.22	100
SF13-045PPC	PP	0.45	100
SF13-022MCEC	MCE	0.22	100
SF13-045MCEC	MCE	0.45	100
SF25-022NYC	Nylon	0.22	100
SF25-045NYC	Nylon	0.45	100
SF25-022PTFEBC	Hydrophobic PTFE	0.22	100
SF25-045PTFEBC	Hydrophobic PTFE	0.45	100
SF25-022PTFELC	Hydrophilic PTFE	0.22	100
SF25-045PTFELC	Hydrophilic PTFE	0.45	100
SF25-022PVDFLC	Hydrophilic PVDF	0.22	100
SF25-045PVDFLC	Hydrophilic PVDF	0.45	100
SF25-022PESC	PES	0.22	100
SF25-045PESC	PES	0.45	100
SF25-022CAC	CA	0.22	100
SF25-045CAC	CA	0.45	100
SF25-022PPC	PP	0.22	100
SF25-045PPC	PP	0.45	100
SF25-022MCEC	MCE	0.22	100
SF25-045MCEC	MCE	0.45	100

## Microfil™ 4mm Syringe Filter

---

Microfil™ 4mm Syringe filters are manufactured to built with features designed to bring the high level performance and purity to research. It is suitable for the sample volume less than 1 mL. We incorporate a variety of membranes including Nylon, Hydrophobic PTFE, Hydrophilic PTFE, PES....to offer separation and purification solutions for the majority laboratory filtration applications



### Application

- HPLC samples containing low solid content – filtration will improve column life
- CE (Capillary Electrophoresis) samples – filtration will eliminate spurious peaks
- Sterile filtration of low volume samples
- UV/Vis samples – filter directly into cuvette using tube tip
- Refractometry filter samples to prevent damage to instrument optics and improve accuracy
- Minimizing non-specific binding to membrane due to small membrane size

### Features

- 4 mm diameter syringe filter
- Sample volume up to 1 mL
- Low hold-up volume < 10 µL ensures maximum sample recovery

## Technical Parameter

Membrane	Nylon	PTFE	PES	CA	MCE
Pore size(μm)	0.22, 0.45				
Diameter (mm)	4				
Housing Material	Pigment-free Polypropylene				
Connector (inlet/outlet)	Female Luer Lock/Male Luer Slip				
Burst Pressure (psi)	75				
Retain Volumn (μL)	10				
Sample Volume (mL)	1				

## Order Information

Cat No	Membrane	Pore Size(μm)	Diameter (mm)	Package
SF4-022NY	Nylon	0.22	4	200
SF4-045NY	Nylon	0.45	4	200
SF4-022PTFEB	Hydrophobic PTFE	0.22	4	200
SF4-045PTFEB	Hydrophobic PTFE	0.45	4	200
SF4-022PTFEL	Hydrophilic PTFE	0.22	4	200
SF4-045PTFEL	Hydrophilic PTFE	0.45	4	200
SF4-022PES	PES	0.22	4	200
SF4-045PES	PES	0.45	4	200
SF4-022CA	CA	0.22	4	200
SF4-045CA	CA	0.45	4	200
SF4-022MCE	MCE	0.22	4	200
SF4-045MCE	MCE	0.45	4	200



## Micropore™ Sterile Syringe Filter

Micropore™ sterile syringe filters is designed for Bio-media Filtration. Each filter is individually packed and sterilized by Gamma Radiation. Every Syringe Filter is printed with expiry date for easy QC tracking. 33mm,30mm,25mm,13mm diameter available.

- PES ( Polyethersulfone )
- Hydrophilic PVDF
- PTFE ( Polyfluortetraethylene )
- MCE ( Mixed Cellulose Ester )
- NY ( Nylon )
- CA ( Cellulose Acetate )



## Micropore™ PES Sterile Syringe Filter

### Features

- High filtration speed
- Low exeractables
- Lowest protein binding
- Designed with a Female Luer-Lock inlet and Male Luer-Slip outlets
- Some Filters are individually wrapped sterile, certified RNase-free, DNase-free and DNA free with Non-pyrogenic

### Application

- Sterile filtering protein solution
- Tissue culture media filtration
- Tissue culture additive filtration

## Technical Parameter

Parameters	13mm		25mm		33mm	
Membrane material	PES		PES		PES	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Max Operating Temperature	90°C		90°C		90°C	
Max Operating Pressure (psi)	50		95		120	
Applicable pH value	1-14		1-14		1-14	

## Micropore™ Hydrophilic PVDF Sterile Syringe Filter

### Feature

- Good heat endurance and chemical stability, strong hydrophobicity
- Designed with a Female Luer-Lock inlet and Male Luer-Slip outlets
- Filters are individually wrapped sterile, certified RNase-free, DNase- free, and DNA free with Non-pyrogenic

### Application

- Gas filtration
- Vapor filtration
- High-temperature filtration
- Food industry
- Medicine filtration



## Technical Parameter

Parameters	13mm		25mm		33mm	
Membrane material	PVDF		PVDF		PVDF	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Max Operating Temperature	100°C		100°C		100°C	
Max Operating Pressure (psi)	50		95		110	
Applicable pH value	1-14		1-14		1-14	

## Micropore™ Hydrophobic PTFE Sterile Syringe Filter

### Feature

- Broad chemical compatibility
- Strong chemical stability and inertia
- Strong hydrophobicity
- Designed with a Female Luer-Lock inlet and Male Luer-Slip outlets
- Filters are individually wrapped sterile, certified RNase-free, DNase-free, and DNA-free with Non-pyrogenic

### Application

- Organic solvent with strong chemical causticity filtration
- Strong acid solvent filtration
- Alkali solvent filtration

## Technical Parameter

Parameters	13mm		25mm		33mm	
Membrane material	PTFE		PTFE		PTFE	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Maximum Operating Temperature	130°C		130°C		130°C	
Maximum Operating Pressure (psi)	130		130		130	
Applicable pH value	1-14		1-14		1-14	

## Micropore™ Sterile MCE Syringe Filter

### Features

- Uniform aperture ,No medium dropping
- Thin texture ,Little resistance
- High filtration speed ,Little absorption
- All items are quality tests for filter efficacy and housing integrity. The housing is pressure tested for use with up 75 psig (5.0 bar) of pressure
- Designed with a Female Luer-Lok inlet and Male Luer slip outlets.
- Some Filters are individually wrapped sterile, certified Rnase-free, Dnase- free, Non-pyrogenic,

## Application

- Gas particulate and bacteria filtration and then inspect them
- Oil particulate and bacteria filtration and then inspect them
- Alcohol particulate and bacteria filtration and then inspect them
- Other solvent particulate and bacteria filtration and then inspect them

## Technical Parameter

Parameters	13mm		25mm		33mm	
Membrane material	MCE		MCE		MCE	
Housing material	PP		PP		PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Max Operating Temperature	110°C		110°C		110°C	
Max Operating Pressure (psi)	120		120		120	
Applicable pH value	4-8		4-8		4-8	

## Micropore™ Nylon Syringe Filter

### Feature

- Strong tenacity and adsorbability
- Hydrophilic property, No need to moist
- Syringe Filters for Cell Culture provide effective filtration for a wide variety of sample Types Designed with a Female Luer-Lok inlet and Male Luer-Slip outlets
- Sterile Nylon Syringe Filters are individually wrapped sterile, certified RNase-free, Dnase-free, and DNA –free with Non-pyrogenic



## Application

- Electric semiconductor industrial water filtration
- Chemicals filtration
- Beverage filtration

## Technical Parameter

Parameters	13mm		25mm		33mm	
Membrane /Housing Material	Nylon/PP		Nylon/PP		Nylon/PP	
Filter diameter (mm)	13mm		25mm		33mm	
Filtration area (cm <sup>2</sup> )	0.65		3.90		4.60	
Normal Pore Size(μm)	0.22	0.45	0.22	0.45	0.22	0.45
Holdup volume (μl)	<10		<30		<55	
Sample volume (ml)	<12		<100		<140	
Max Operating Temperature	100°C		100°C		100°C	
Max Operating Pressure (psi)	75		95		110	
Applicable pH value	3-12		3-12		3-12	

## Order Information

Item#	Description	Packing
SSFPE33-022	Sterile PES Syringe Filter, Pore:0.22μm, Diameter:33mm	100
SSFPE33-045	Sterile PES Syringe Filter, Pore:0.45μm, Diameter:33mm	100
SSFPE25-022	Sterile PES Syringe Filter, Pore:0.22μm, Diameter:25mm	100
SSFPE25-045	Sterile PES Syringe Filter, Pore:0.45μm, Diameter:25mm	100
SSFPE13-022	Sterile PES Syringe Filter, Pore:0.22μm, Diameter:13mm	100
SSFPE13-045	Sterile PES Syringe Filter, Pore:0.45μm, Diameter:13mm	100
SSFPVDF33-022L	Sterile Hydrophilic PVDF Syringe Filter, Pore:0.22μm, Diameter:33mm	100
SSFPVDF33-045L	Sterile Hydrophilic PVDF Syringe Filter, Pore:0.22μm, Diameter:33mm	100

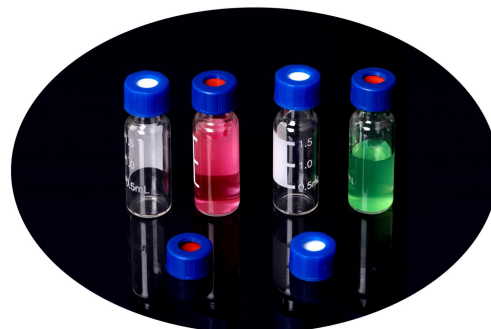
Item#	Description	Packing
SSFPVDF25-022L	Sterile Hydrophilic PVDF Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFPVDF25-045L	Sterile Hydrophilic PVDF Syringe Filter, Pore:0.45µm, Diameter:25mm	100
SSFPTFE33-022B	Sterile Hydrophobic PTFE Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFPTFE33-045B	Sterile Hydrophobic PTFE Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFPTFE25-022B	Sterile Hydrophobic PTFE Syringe Filter, Pore:0.45µm, Diameter:13mm	100
SSFPTFE25-045B	Sterile Hydrophobic PTFE Syringe Filter, Pore:0.45µm, Diameter:25mm	100
SSFPTFE13-022B	Sterile Hydrophobic PTFE Syringe Filter, Pore:0.22µm, Diameter:13mm Sterile	100
SSFPTFE13-045B	Hydrophobic PTFE Syringe Filter, Pore:0.45µm, Diameter:13mm	100
SSFMCE33-022	Sterile MCE Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFMCE33-045	Sterile MCE Syringe Filter, Pore:0.45µm, Diameter:33mm	100
SSFMCE25-022	Sterile MCE Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFMCE25-045	Sterile MCE Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFMCE13-022	Sterile MCE Syringe Filter, Pore:0.22µm, Diameter:13mm	100
SSFMCE13-045	Sterile MCE Syringe Filter, Pore:0.45µm, Diameter:13mm	100
SSFNY33-022	Sterile Nylon Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFNY33-045	Sterile Nylon Syringe Filter, Pore:0.45µm, Diameter:33mm	100
SSFNY25-022	Sterile Nylon Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFNY25-045	Sterile Nylon Syringe Filter, Pore:0.45µm, Diameter:25mm	100
SSFNY13-022	Sterile Nylon Syringe Filter, Pore:0.22µm, Diameter:13mm	100
SSFNY13-045	Sterile Nylon Syringe Filter, Pore:0.45µm, Diameter:13mm	100
SSFCA33-022	Sterile CA Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFCA33-045	Sterile CA Syringe Filter, Pore:0.45µm, Diameter:33mm	100
SSFCA25-022	Sterile CA Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFCA25-045	Sterile CA Syringe Filter, Pore:0.45µm, Diameter:25mm	100
SSFCA13-022	Sterile CA Syringe Filter, Pore:0.22µm, Diameter:13mm	100
SSFCA13-045	Sterile CA Syringe Filter, Pore:0.45µm, Diameter:13mm	100

Item#	Description	Packing
SSFPTFE33-022L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.22µm, Diameter:33mm	100
SSFPTFE33-045L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.45µm,Diameter:33mm	100
SSFPTFE25-022L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.22µm, Diameter:25mm	100
SSFPTFE25-045L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.45µm, Diameter:25mm	100
SSFPTFE13-022L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.22µm, Diameter:13mm	100
SSFPTFE13-045L	Sterile Hydrophilic PTFE Syringe Filter, Pore:0.45µm, Diameter:13mm	100
SSFPTFE50-022B	Sterile Hydrophobic PTFE Syringe Filter,Pore:0.22µm,Diameter:50mm	100
SSFPTFE50-045B	Sterile Hydrophobic PTFE Syringe Filter,Pore:0.22µm,Diameter:50mm	100



## Micropore™ Sample Vials

Micropore™ sample vials provide advantages over the standard straight glass sample vials. The flared end of the vial makes loading a liquid sample much easier since the flare helps guide the syringe needle into the vial. The flared end also makes the vial much stronger so that vials can easily be inserted and removed from the end of the probe using tweezers without breaking the glass.



## Features

- ◆ Tightest dimensional tolerances in industry
- ◆ MF scan on certificate in every pack
- ◆ Raw Material: Glass tubing, Borosilicate, Type 1, Class A from Schott.
- ◆ Computerized camera system for quality control throughout the manufacturing process to test critical dimensions, including Height, Diameter, Bottom Thickness and Neck/Thread.
- ◆ Only vial/cap/septum combination tested by LCMS for cleanliness
- ◆ Cap/Septum - tested by head space GC to ensure proper curing of silicone polymer

### 2ml Sample Vial



### Micro-Sampling Vial & inserts



### HeadSpace Vial



### Storage Vial



Autosample Vial				
Design of the Neck	Volume	Type of Glass		Dimension
8-425	2mL	Type I, 33 expansion glass (Clear); Type I, 51 expansion glass (Amber)		32*11.6mm
9-425	2mL			
10-425	2mL			
11mm Crimp top	2mL			
Snap top	2mL			
<i>Suitable for: Waters®, Agilent, Beckman®, Thermo®, Dynatech®, Gilson®, Hitachi®, Perkin-Elmer™, Varian®, Spark®.</i>				
Insert Vial				
For 8-425 screw top vial	100µL	Type I, 33 expansion glass		29*5mm
	200µL			31*5mm
	300µL			31*5mm
For 9-425, 10-425, 11mm Crimp top, Snap top vial	250µL			29*6mm
	300µL			31*6mm
	400µL			31*6mm
Storage Vial				
13-425	4mL	Type I, 33 expansion glass (Clear); Type I, 51 expansion glass (Amber)		45*15mm
15-425	8mL			61*16.6mm
15-425	12mL			66*18mm
24-400	20mL			57*27.5mm
24-400	30mL			72.5*27.5mm
24-400	40mL			95*27.5mm
24-400	60mL			140*27.5mm
Headspace Vial				
Design of the Neck	Volume	Top	Bottom	Dimension
18mm Screw top*	10mL	Flat	Flat/Round	46*22.5mm
	20mL		Flat/Round	75*22.5mm
20mm Crimp top	10mL	Flat	Flat/Round	46*22.5mm
	10mL	Bevelled	Flat/Round	
	20mL	Flat	Flat/Round	75*22.5mm
	20mL	Bevelled	Flat/Round	
<i>* Suitable for: CTC Combi PAL(Varian, Gerstel, Atas, Shimadzu), PerkinElmer, Agilent</i>				

Cap & Septa for Autosample Vial		
Design of the Neck	Material	Septa
8-425	Polyethylene	1. Pre-slit Blue PTFE/White Silicone Septa; 2. Red PTFE/White Silicone Septa; 3. White PTFE/Red Silicone Septa.
9-425		
10-425		
11mm Crimp top	Aluminium	1. Red PTFE/White Silicone Septa; 2. White PTFE/Red Silicone Septa.
Snap top	Polyethylene	
Cap & Septa for Storage Vial		
Design of the Neck	Material	Septa
13-425	Polyethylene	1. White PTFE/White Silicone Septa; 2. White PTFE/Nature Silicone Septa; 3. Nature PTFE/Nature Silicone Septa;
15-425		
24-400		
Cap & Septa for Headspace Vial		
18mm Screw top	Magnetic Cap	1. Blue PTFE/White Silicone Septa 2. White PTFE/Nature Silicone Septa 3. Blue PTFE/White Silicone Septa
20mm Crimp top	Aluminium Cap	
	Magnetic Cap	

## Order information

Part No.	Description	Unit
<b>Screw Top, Standard 8-425 Opening Vials</b>		
MPCV2-8SC	2ml Clear vial, 8-425 screw top	100/Box
MPCV2-8SW	2ml Clear vial, 8-425 screw top, graduated with writing area	100/Box
MPAV2-8SC	2ml Amber vial, 8-425 screw top	100/Box
MPAV2-8SW	2ml Amber vial, 8-425 screw top, graduated with writing area	100/Box
<b>Screw caps + Septa for standard 8-425 screw top Vials</b>		
MPCS2-8RB	Red PTFE/White silicone septa+ Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
MPCS2-8WB	White PTFE/Red silicone septa + Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
MPCS2-8BP	Blue PTFE/white silicone septa, Pre-slit + Black screw cap with hole, for 2ml 8-425 screw top vial	100/PK
<b>Screw Top, 9-425 Wide Opening Vials</b>		

MPCV2-9SC	2ml Clear vial, 9-425 screw top	100/Box
MPCV2-9SW	2ml Clear vial, 9-425 screw top, graduated with writing area	100/Box
MPAV2-9SC	2ml Amber vial, 9-425 screw top	100/Box
MPAV2-9SW	2ml Amber vial, 9-425 screw top, graduated with writing area	100/Box
<b>Screw caps + Septa for 9-425 Wide Opening screw top Vials</b>		
MPCS2-9WB	White PTFE/Red silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPCS2-9RB	Red PTFE/White silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPCS2-9BP	Blue PTFE/White silicone septa, Pre-slit + Blue screw cap with hole, for 2ml 9-425 screw top vial	100/PK
MPSP2-9RS	Red PTFE/white silicone septa/red PTFE,(three layer), for 2mL 9-425 screw top vial	100/PK

<b>Part No.</b>	<b>Description</b>	<b>Unit</b>
<b>Crimp Top, 11-425 Wide Opening Vials</b>		
MPCV2-11C	2ml Clear vial, crimp top	100/Box
MPCV2-11W	2ml Clear vial, crimp top, graduated with writing area	100/Box
MPAV2-11C	2ml Amber vial, crimp top	100/Box
MPAV2-11W	2ml Amber vial, crimp top, graduated with writing area	100/Box
<b>Aluminum cap + Septa for 11-425 Wide Opening Crimp top Vials</b>		
MPCS2-11R	Red PTFE/White silicone septa + Aluminium cap, for 2ml crimp top vial	100/PK
MPCS2-11W	White PTFE/Red silicone septa+ Aluminium cap, for 2ml crimp top vial	100/PK
<b>Snap Ring Top, 10-425 Wide Opening Vials</b>		
MPCV2-10S	2ml Clear vial, snap top	100/Box
MPCV2-10W	2ml Clear vial, snap top, graduated with writing area	100/Box
MPAV2-10S	2ml Amber vial, snap top	100/Box
MPAV2-10W	2ml Amber vial, snap top, graduated with writing area	100/Box
<b>4ml 13-425, 8ml 15-425 ,12ml 15-425 Sample Vials, Cap &amp; Septa</b>		
MPCV4SC	4ml Clear vial, 15×45mm, screw top	100/Box
MPAV4SC	4ml Amber vial, 15×45mm, screw top	100/Box
MPCS4SC	Red PTFE/Silicone septa + White cap with hole, for 4ml screw vial	100/PK

MPCS4SO	Red PTFE/White silicone septa + White cap without hole, for 4ml screw top vial	100/PK
MPCV8SC	8ml Clear vial, 15-425, screw top	100/Box
MPCS8SC	PTFE/silicone septa + White screw cap without hole, 15 – 425, for 8ml screw vial	100/PK
MPCV12SC	12ml Clear vial, 15-425, screw top	100/Box
MPCS12SC	PTFE/silicone septa + White screw cap without hole, 15 – 425, for 12 ml screw vial	100/PK
<b>10ml, 20ml Headspace Vials, Cap &amp; Septa</b>		
MPCV10SF	10ml Clear vial, 22.5×46mm, screw top, flat bottom	100/Box
MPCV10CF	10ml Clear vial, 22.5×46mm, crimp top, flat bottom	100/Box
MPCV10SR	10ml Clear vial, 18mm, screw top, round bottom	100/Box
MPCV20CF	20ml Clear vial, 22.5×75mm, crimp top, flat bottom	100/Box
MPCV20CR	20ml Clear vial, 22.5×75mm, crimp top, round bottom	100/Box
MPCV20SR	20ml Clear vial, 18mm, screw top, round bottom	100/Box
MPCS120W	White PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100/PK
MPCS120R	Red PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100/PK
MPCS120S	Blue PTFE/ White silicone septa + Silver screw cap with hole, for 18mm screw top vial	100/PK
<b>20ml, 40ml 60ml 24-400 Vials, Cap &amp; Septa</b>		
MPCV20SC	20ml Clear vial, 24-400 screw top	100/Box
MPAV20SC	20ml Amber vial, 24-400 screw top	100/Box
MPCV40SC	40ml Clear vial, 24-400 28×95mm, screw top, flat bottom	100/Box
MPAV40SC	40ml Amber vial, 24-400 28×95mm, screw top, flat bottom	100/Box
MPCS20SC	Nature PTFE/Nature silicone septa + White screw cap with hole, for 20ml screw top vial	100/PK
MPCS20SO	Nature PTFE/Nature silicone septa + White screw cap without hole, for 20ml screw top vial	100/PK
MPCS40SC	Nature PTFE/Nature silicone septa + White screw cap with hole, for 40ml screw top vial	100/PK
MPCS40SO	Nature PTFE/Nature silicone septa + White screw cap without hole, for 40ml screw top vial	100/PK
MPCV60SC	60ml Clear vial, 24-400, screw top	100/PK
MPCS60SC	PTFE/silicone septa + White screw cap without hole, 24 – 400, for 60ml screw vial	100/PK

Bonded Cap & Septa and Micro-insert & Vials with Fused Insert		
MPVI29CB	Micro-insert 29*5.7mm,Clear Class, conical bottom with assembled plastic spring	100/PK
MPVI31CB	Micro-insert 31*6mm,Clear Class, conical bottom	100/PK
MPVI31FB	Micro-insert 31*6mm,Clear Class, flat bottom	100/PK
MPIV2-9CF	2mL 9-425 Screw top clear vial with 300µL fused insert vial, Base bonded	100/PK
MPIV2-9AF	2mL 9-425 Screw top amber vial with 300µL fused insert vial, Base bonded	100/PK
MPIC2-9CF	2mL 11mm Crimp top clear vial with 300µL fused insert vial, Base bonded	100/PK
MPIC2-9AF	2mL 11mm Crimp top amber vial with 300µL fused insert vial, Base bonded	100/PK

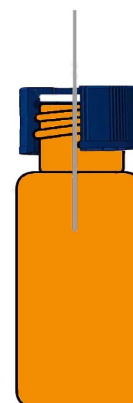
## Micropore® Bonded Cap

Micropore® Bonded caps is designed with septa and polypropylene caps bonded by proprietary bonding technology. Each batch tested and verified by an independent laboratory for the high quality standards. Currently, 12x32mm 9mm screw top vials screw caps and



## Features

- Bonding process eliminates possibility of septa loose and being pushed into the vial
- Pre-slit PTFE/Silicone septa reduce the possibility of coring
- Easy to pierce,durable for multiple penetration,Reduced handling and resulting contamination
- Low extracts,Broad chemical resistant,no interfering peaks, Temperature range of -40 °C to 200 °C



## Order Information

Cat No	Description	Package
MPBC2-9SC	Blue screw cap with hole with bonded White PTFE/Red silicone septa, for 2ml 9-425 screw top vial 1mm thick	100
MPBC2-9SP	Blue screw cap with hole with bonded White PTFE/Red silicone septa, Pre-slit , for 2ml 9-425 screw vial 1mm thick	100
MPBC2-4SC	24-400 White open top PP screw cap bonded with 22mm natural PTFE/white silicone septa 3mm thick	100

## Micropore Bonded Cap Cross Reference

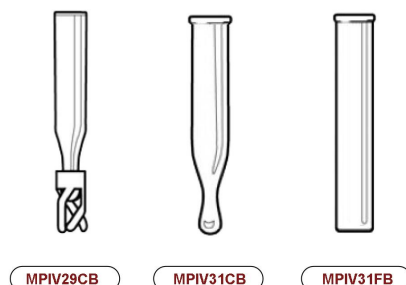
Micropore	Agilent		Waters	Thermo Scientific	La-Pha-Pack	Wheaton
	Certified cap	CrossLab cap				
MPBC2-9SC	5185-5823	8010-0077	186000274	03-246-313	09 04 1220	
		8010-0074	186002129			
		8010-0081	186002130			
			186002456			
MPBC2-9SP	5185-5824		186000305	03-246-314	09 04 1533	09-0036B
	5040-4649		186002128		09 04 1534	
			186002127			
			186002457			



## Micropore® Micro Inserts

### Specifications:

- With Nominal O.D. of 6mm. For 9-425, 10-425, 11mm crimp top and snap top sample vials
- Cushion offered by self-centered poly-spring inserts for the needle
- Solvents saved by the economical micro-inserts



### Order Information

Cat No	Description	Package
MPVI29CB	Micro-insert 29*5.7mm, clear class, conical bottom with assembled plastic spring	100
MPVI31CB	Micro-insert 31*6mm, clear class, conical bottom	100
MPVI31FB	Micro-insert 31*6mm, clear class, flat bottom	100

### Micro Inserts Cross Reference

Micropore	Agilent CrossLab	La-Pha-Pack	Thermo Scientific	Wheaton	Waters
MPVI29CB	8010-0131	06 09 0865	THC06090865	11-0000-100-B	WATD94170
	8010-0132			11-0000-100	WATD94171
MPVI31CB		06 09 0357	THC06090357	11-0000-101-B	
		06 09 0669	THC06090669	11-0000-101	
				09-0000-101	
MPVI31FB	8010-0136	06 09 0866	THC06090866	11-0000-300	
				11-0000-300-b	



## Micropore® 9-425 Screw Top Vials with Fused Insert

### Specifications:

- Glass Type: Type-1, 33 Expansion Borosilicate
- Dimensions: 12\*32mm, Wide opening
- Insert Vial Volume: 300µL
- Screw Top: 9-425 Screw Top

### Features

- Precision-formed glass base offers better stability and more concentrated heat source for dry downs.
- These fused insert vials are manufactured so that the needle will never seal against the insert.
- More stable than conical vials, fused insert vial can be used with other Autosample vials in the sample run.
- These vials are used with many Agilent, CTC PAL, Perkin-Elmer, Shimadzu, and Thermo autosamplers. An excellent choice for budget minded laboratories.

### Order Information

Cat No	Description	Package
MPIV2-9CF	2mL 9-425 Screw top clear vial with 300µL fused insert vial, Base bonded	100
MPIV2-9AF	2mL 9-425 Screw top amber vial with 300µL fused insert vial, Base bonded	100

## Micropore® 11mm Crimp Top Vials with Fused Insert

### Specifications:

- Glass Type: Type-1, 33/51Expansion Borosilicate
- Dimensions: 12\*32mm, Wide opening
- Insert Vial Volume: 300µL/250µL



### Feature

- Precision-formed glass base offers better stability and more concentrated heat source for dry downs.
- These fused insert vials are manufactured so that the needle will never seal against the insert.
- More stable than conical vials, fused insert vial can be used with other Autosample vials in the sample run.
- These vials are used with many Agilent, CTC PAL, Perkin-Elmer, Shimadzu,

### Order Information

Cat No	Description	Package
MPIC2-9CF	2mL 11mm Crimp top clear vial with 300µL fused insert vial, Base bonded	100
MPIC2-9AF	2mL 11mm Crimp top amber vial with 300µL fused insert vial, Base bonded	100
MPIC2-5CF	2mL 11mm Crimp top clear vial with 250µL fused insert vial, Base bonded	100
MPIC2-5AF	2mL 11mm Crimp top amber vial with 250µL fused insert vial, Base bonded	100

## Micropore™ Lab Pure Water Filter Capsule

Micropore™ lab pure water filter capsule is qualified with high quality asymmetric PES membranes, well packaged. It is ready to use for for Ultrapure & EDI Lab Water Systems as filter for contaminant, Bacteria and particle removal. The inlet connections is 1/4" NPTM easy to install.



### Features

- Application Compatibility: Suitable for various brand lab water purification systems
- Adapter: 1/4" NPTM inlet easy to install and 3/8" bared hose with shield outlet for prevent pollution.
- Using times: Disposable filter design reduce cleaning time and maintenance cost.
- Manufactured in a controlled environment according to ISO9001 certified Quality Management System
- Integrity: 100% integrity tested including bubble point and diffusional flow rate.

### Specification

<b>Materials of Construction</b>
Filter Media: Asymmetric PES
Support & Housing: Polypropylene (PP)
Sealing Technology: Thermal Welding (No Adhesives)
<b>Effective Filtration Area:</b> ≥ 150 cm <sup>2</sup>
<b>Pore Size:</b> 0.22μm/0.45μm
<b>Inlet/Outlet::</b> 1/4" NPTM 3/8" Bared Hose With Shield
<b>Pressure-resistant:</b> 25°C, 3.0bar。
<b>Diffusional flow rate:</b> ≤35ml/min@2.76bar



### Order Information

Cat No.	Membrane	Pore size(μm)	Packing
MCFPES022	Asymmetric PES	0.22μm	1
MCFPES045	Asymmetric PES	0.45μm	1
MCFPES025	Asymmetric PES	0.22μm&0.45μm	1

## Micropore® Vent Filter

Micropore® vent filters is also called vacuum protection filter or gas line filter, They are designed for the removal of particles and micro-organisms for venting and gases. Which are ideal for sterilizing gases, venting sterile containers, sterilizing or clarifying organic solutions and protect laboratory. The special construction allows minimal hold-up volume and particle shedding, making it ideally suited for the critical needs of the pharmaceutical and biotechnology industries.

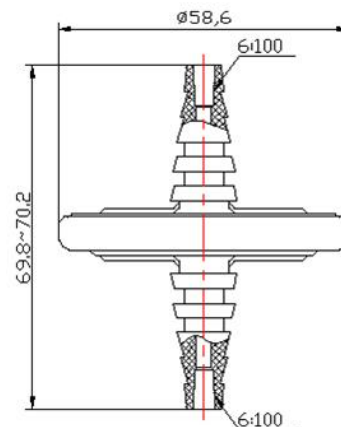
### Application

- Sterile venting of small fermenters
- Sterile venting of small containers
- General sterile filtration of gases and air



### Features

- Autoclave, ideal for use with bioreactors and fermenters.
- Have broad chemical resistance
- Large surface area provides greater throughput and permits higher air flow rates



## Technical Parameter

<b>Pore Size(μm)</b>	0.1, 0.22, 0.45,0.65,0.8,1.0,1.2
<b>Filter Media</b>	PES/Nylon66/PTFE/PP/GF/PVDF
<b>Support &amp; Housing</b>	PP (Polypropylene)
<b>Sealing Technology</b>	Thermal Bonding, No Adhesives
<b>Dimensions</b>	Outer Diameter Φ65: PTFE, Φ60: PES/Nylon66/PP/GF/PVDF Inlet/Outlet: 7~13 mm stepped hose barb connection with 6:100
<b>Filtration Area, ft<sup>2</sup></b>	≥0.021
<b>Bubble Point &amp; Air Flow Rate</b>	(PTFE 0.22 μm, 0.01 μm for air & gas) Bubble Point: ≥ 900 mbar with 60/40% IPA/water Air Flow Rate: ≥ 25 L/min at 1 bar
<b>Maximum Operating Pressure</b>	Forward: 3.5 bar @ 23°C and 3.0 bar @ 60°C for liquid, 3.0 bar @ 23°C and 2.5 bar @ 60°C for air & gas
<b>Bacterial Retention</b>	(for 0.22 μm PES/PTFE ): Passed the bacterial challenge testing using <i>Brevundimonas diminuta</i> (ATCC19146) at a minimum challenge concentration of 1×10 <sup>7</sup> CFU/cm <sup>2</sup>
<b>Biological Safety</b>	Meets GB/T 14233.2 <2005> of Chinese National Standard for Safety Tests
<b>Sterilization</b>	By EO or 3 autoclave cycles of 30 min at 123 °C; steam-in-place sterilization not recommended
<b>Good Manufacturing Practices</b>	Manufactured in an Micropore facility which adheres to Good Manufacturing Practices.

## Order Information

Cat No	Description	Membrane	Pore Size(μm)	Diameter (mm)	Package
<b>MFPTFE50-022</b>	Inlet/Outlet: Stepped Hose Barb	Hydrophobic PTFE	0.22	50	25
<b>MFPTFE50-045</b>	Inlet/Outlet: Stepped Hose Barb	Hydrophobic PTFE	0.45	50	25
<b>MFPTFE50-100</b>	Inlet/Outlet: Stepped Hose Barb	Hydrophobic PTFE	1.0	50	25

**Note:** Single packed and with Gamma sterilized is available.

## Micropore® TC Vent Capsule Filter

Micropore® TC vent capsule filter is qualified with high quality raw membranes, well packaged. It is ready to use for contaminant, Bacteria and particle removal in Bio-Pharmaceutical , Food&Beverage industry as vent filter for sterile container, gas purifying, gas sterile filtration etc. The classic range is available with major membrane of Hydrophobic PTFE PVDF,PES with virgin medical polypropylene housing.



### Features

- Application Compatibility: Broad range of filtration media meets diverse application needs.
- Minimum Hold-up Volume: housings are specifically designed to low hold-up.
- Convenient: Tri-clamp (TC) type inlet/outlet connections easy to install.
- Using times: Disposable filter design reduce cleaning time and maintenance cost.
- Manufactured in a controlled environment

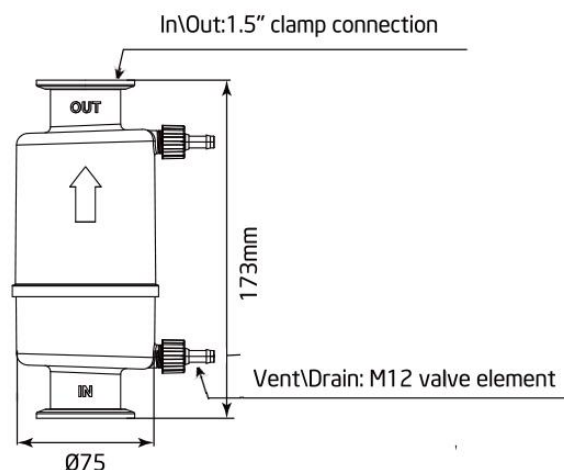
according to ISO9001 certified Quality Management System

### Specification

Materials of Construction	
Filter Media	Hydrophobic PTFE/Hydrophobic PVDF/Asymmetric PES
Support & Housing	Polypropylene (PP)
Sealing Technology	Thermal welding (No Adhesives)
<b>Effective Filtration Area:</b> ≥ 1500 cm <sup>2</sup>	
<b>Pore Size:</b> 0.22µm, 0.45µm, 0.65µm, 0.8µm, 1.0µm, 3.0µm, 5.0µm	
<b>Forward Maximum Differential Pressure:</b> 3.0 bar@23°C, 2.5 bar@60°C	
<b>Sterilization:</b> 3 autoclave cycles of 30minutes at 121°C; steam-in-place sterilization is not recommended.	

## Application

- Tank Venting
- Gas purifying
- Gas sterile filtration



## Order informatio

Micropore® TC Vent Capsule Filter			
Cat No.	Membrane	Pore size(μm)	Packing
MVC022PTFE	Hydrophobic PTFE	0.22μm	1
MVC045PTFE	Hydrophobic PTFE	0.45μm	1
MVC100PTFE	Hydrophobic PTFE	1.0μm	1
MVC022PVDF	Hydrophobic PVDF	0.22μm	1
MVC045PVDF	Hydrophobic PVDF	0.45μm	1
MVC100PVDF	Hydrophobic PVDF	1.0μm	1
MVC022APES	Asymmetric PES	0.22μm	1
MVC045APES	Asymmetric PES	0.45μm	1
MVC100APES	Asymmetric PES	1.0μm	1

## Microfil™ Disc Membrane Filter

Microfil™ disc membrane filter are micro-porous films with specific pore size ratings. Membranes retains particles and microorganisms that exceed their pore rating as a physical barrier and capturing such particles on the surface of the membrane, Micropore supplies kind of membrane filter Nylon PES Hydrophobic PTFE, Hydrophilic PVDF, MCE PP and sterilized MCE Gridded membrane for Microbiology Test application.



## Nylon Membrane Filter

- Hydrophilic
- High protein binding capacity
- Ideal for Bacterial and Particulate removal
- Compatible with aqueous and alcoholic solutions and solvents; suitable for HPLC



Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-022NY	Nylon	0.22	13	400
MPDF25-022NY	Nylon	0.22	25	200
MPDF47-022NY	Nylon	0.22	47	200
MPDF90-022NY	Nylon	0.22	90	100
MPDF142-022NY	Nylon	0.22	142	50
MPDF293-022NY	Nylon	0.22	293	25
MPDF13-045NY	Nylon	0.45	13	400
MPDF25-045NY	Nylon	0.45	25	200
MPDF47-045NY	Nylon	0.45	47	200
MPDF90-045NY	Nylon	0.45	90	100
MPDF142-045NY	Nylon	0.45	142	50
MPDF293-045NY	Nylon	0.45	293	25
MPDF13-080NY	Nylon	0.8	13	400
MPDF25-080NY	Nylon	0.8	25	200
MPDF47-080NY	Nylon	0.8	47	200
MPDF90-080NY	Nylon	0.8	90	100
MPDF13-100NY	Nylon	1.0	13	400
MPDF25-100NY	Nylon	1.0	25	200



Cat. No.	Filter Medium	Pore Size( $\mu\text{m}$ )	Diameter(mm)	Qty/pack
MPDF47-100NY	Nylon	1.0	47	200
MPDF90-100NY	Nylon	1.0	90	100
MPDF142-100NY	Nylon	1.0	142	50
MPDF13-300NY	Nylon	3.0	13	400
MPDF25-300NY	Nylon	3.0	25	200
MPDF47-300NY	Nylon	3.0	47	200
MPDF90-300NY	Nylon	3.0	90	100
MPDF142-300NY	Nylon	3.0	142	50
MPDF293-300NY	Nylon	3.0	293	25
MPDF13-500NY	Nylon	5.0	13	400
MPDF25-500NY	Nylon	5.0	25	200
MPDF47-500NY	Nylon	5.0	47	200
MPDF90-500NY	Nylon	5.0	90	100
MPDF142-500NY	Nylon	5.0	142	50

## Hydrophobic PTFE Membrane Filter

- Hydrophobic PTFE membrane with supporting layer polyester or polypropylene.
- Suitable for applications involving aggressive organic solvents, strong acids and alkalis.
- Hydrophobic nature of the membrane has applications for air and gas sterilization.
- High temperature resistance.

Cat. No.	Filter Medium	Pore Size( $\mu\text{m}$ )	Diameter(mm)	Qty/pack
MPDF13-022PTFEB	Hydrophobic PTFE	0.22	13	400
MPDF25-022PTFEB	Hydrophobic PTFE	0.22	25	200
MPDF47-022PTFEB	Hydrophobic PTFE	0.22	47	200
MPDF90-022PTFEB	Hydrophobic PTFE	0.22	90	100
MPDF142-022PTFEB	Hydrophobic PTFE	0.22	142	50
MPDF13-045PTFEB	Hydrophobic PTFE	0.45	13	400
MPDF25-045PTFEB	Hydrophobic PTFE	0.45	25	200
MPDF47-045PTFEB	Hydrophobic PTFE	0.45	47	200
MPDF90-045PTFEB	Hydrophobic PTFE	0.45	90	100
MPDF142-045PTFEB	Hydrophobic PTFE	0.45	142	50
MPDF25-010PTFEB	Hydrophobic PTFE	0.1	25	200
MPDF47-010PTFEB	Hydrophobic PTFE	0.1	47	200
MPDF90-010PTFEB	Hydrophobic PTFE	0.1	90	100
MPDF25-100PTFEB	Hydrophobic PTFE	1.0	25	200
MPDF47-100PTFEB	Hydrophobic PTFE	1.0	47	200

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF90-100PTFEB	Hydrophobic PTFE	1.0	90	100
MPDF142-100PTFEB	Hydrophobic PTFE	1.0	142	50
MPDF25-300PTFEB	Hydrophobic PTFE	3.0	25	200
MPDF47-300PTFEB	Hydrophobic PTFE	3.0	47	200
MPDF90-300PTFEB	Hydrophobic PTFE	3.0	90	100
MPDF142-300PTFEB	Hydrophobic PTFE	3.0	142	50

## Hydrophilic PTFE Membrane Filter

- Hydrophilic PTFE membrane with supporting layer polyester or polypropylene
- Suitable for applications involving aggressive organic solvents, strong acids and alkalis
- Hydrophobic nature of the membrane has applications for air and gas sterilization
- High temperature resistance

Cat. No.	Filter Medium	Pore Size(μm)	Diameter (mm)	Qty/pack
MPDF13-022PTFEL	Hydrophilic PTFE	0.22	13	400
MPDF25-022PTFEL	Hydrophilic PTFE	0.22	25	200
MPDF47-022PTFEL	Hydrophilic PTFE	0.22	47	200
MPDF90-022PTFEL	Hydrophilic PTFE	0.22	90	100
MPDF13-045PTFEL	Hydrophilic PTFE	0.45	13	400
MPDF25-045PTFEL	Hydrophilic PTFE	0.45	25	200
MPDF47-045PTFEL	Hydrophilic PTFE	0.45	47	200
MPDF90-045PTFEL	Hydrophilic PTFE	0.45	90	100

## PES Membrane Filter

- Asymmetric type make it good filtration performance.
- Inherently hydrophilic.
- Low protein binding.
- Good chemical compatibility .

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-022PES	PES	0.22	13	400
MPDF25-022PES	PES	0.22	25	200
MPDF47-022PES	PES	0.22	47	200
MPDF90-022PES	PES	0.22	90	100
MPDF142-022PES	PES	0.22	142	50

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-045PES	PES	0.45	13	400
MPDF25-045PES	PES	0.45	25	200
MPDF47-045PES	PES	0.45	47	200
MPDF90-045PES	PES	0.45	90	100
MPDF142-045PES	PES	0.45	142	50
MPDF13-010PES	PES	0.1	13	400
MPDF25-010PES	PES	0.1	25	200
MPDF47-010PES	PES	0.1	47	200
MPDF90-010PES	PES	0.1	90	100

## MCE Membrane Filter

- A mixture of nitrocellulose and cellulose acetate
- Naturally hydrophilic
- Available in both supported or non-supported
- High porosity provides superior flow rates

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-022MCE	MCE	0.22	13	400
MPDF25-022MCE	MCE	0.22	25	200
MPDF47-022MCE	MCE	0.22	47	200
MPDF90-022MCE	MCE	0.22	90	100
MPDF142-022MCE	MCE	0.22	142	50
MPDF13-045MCE	MCE	0.45	13	400
MPDF25-045MCE	MCE	0.45	25	200
MPDF47-045MCE	MCE	0.45	47	200
MPDF90-045MCE	MCE	0.45	90	100
MPDF142-045MCE	MCE	0.45	142	50
MPDF13-080MCE	MCE	0.8	13	400
MPDF25-080MCE	MCE	0.8	25	200
MPDF47-080MCE	MCE	0.8	47	200
MPDF90-080MCE	MCE	0.8	90	100
MPDF13-100MCE	MCE	1.0	13	400
MPDF25-100MCE	MCE	1.0	25	200
MPDF47-100MCE	MCE	1.0	47	200
MPDF90-100MCE	MCE	1.0	90	100
MPDF13-300MCE	MCE	3.0	13	400
MPDF25-300MCE	MCE	3.0	25	200
MPDF47-300MCE	MCE	3.0	47	200
MPDF90-300MCE	MCE	3.0	90	100

## Microbiology Test Membrane Filter(CN&MCE)

- Available in white and black
- Gridded or non-gridded
- Individual pack, pre-sterilized
- Standard for microbiological analysis of water, waste water, and beverages.

Cat. No.	Filter Medium	Pore Size(μm)	Diameter (mm)	Qty/pack
<b>Disc MCE Membrane Filter, White, Gridded, Non-sterile</b>				
MPMCE047022GWS	MCE	0.22	47	100
MPMCE047045GWS	MCE	0.45	47	100
MPMCE047080GWS	MCE	0.8	47	100
<b>Disc MCE Membrane Filter, Black, Gridded, Non-sterile</b>				
MPDF47-022MCEGB	MCE	0.22	47	100
MPDF47-045MCEGB	MCE	0.45	47	100
MPDF47-080MCEGB	MCE	0.8	47	100
<b>CN Membrane Filter, Non-Sterile</b>				
MPDF47-022CN	CN	0.22	47	100
MPDF47-045CN	CN	0.45	47	100
MPDF47-080CN	CN	0.8	47	100

## Hydrophobic PVDF Membrane Filter

- Wide chemical compatibility
- Excellent mechanical properties
- High temperature capabilities
- Low extractable levels

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-022PVDFB	Hydrophobic PVDF	0.22	13	400
MPDF25-022PVDFB	Hydrophobic PVDF	0.22	25	200
MPDF47-022PVDFB	Hydrophobic PVDF	0.22	47	200
MPDF90-022PVDFB	Hydrophobic PVDF	0.22	90	100
MPDF142-022PVDFB	Hydrophobic PVDF	0.22	142	50
MPDF13-045PVDFB	Hydrophobic PVDF	0.45	13	400
MPDF25-045PVDFB	Hydrophobic PVDF	0.45	25	200
MPDF47-045PVDFB	Hydrophobic PVDF	0.45	47	200
MPDF90-045PVDFB	Hydrophobic PVDF	0.45	90	100
MPDF142-045PVDFB	Hydrophobic PVDF	0.45	142	50

## Hydrophilic PVDF Membrane Filter

- Wide chemical compatibility
- Excellent mechanical properties
- High temperature capabilities
- Low extractable levels

Cat. No.	Filter Medium	Pore Size( $\mu\text{m}$ )	Diameter(mm)	Qty/pack
MPDF13-022PVDFL	Hydrophilic PVDF	0.22	13	400
MPDF25-022PVDFL	Hydrophilic PVDF	0.22	25	200
MPDF47-022PVDFL	Hydrophilic PVDF	0.22	47	200
MPDF90-022PVDFL	Hydrophilic PVDF	0.22	90	100
MPDF13-045PVDFL	Hydrophilic PVDF	0.45	13	400
MPDF25-045PVDFL	Hydrophilic PVDF	0.45	25	200
MPDF47-045PVDFL	Hydrophilic PVDF	0.45	47	200
MPDF90-045PVDFL	Hydrophilic PVDF	0.45	90	100

## CA Membrane Filter

- Hydrophilic
- Very low protein binding capacity
- High physical strength
- Strength and dimension stability

Cat. No.	Filter Medium	Pore Size( $\mu\text{m}$ )	Diameter(mm)	Qty/pack
MPCA013022	Cellulose Acetate	0.22	13	200
MPCA025022	Cellulose Acetate	0.22	25	100
MPCA047022	Cellulose Acetate	0.22	47	50
MPCA090022	Cellulose Acetate	0.22	90	25
MPCA142022	Cellulose Acetate	0.22	142	25
MPCA293022	Cellulose Acetate	0.22	293	25
MPCA013045	Cellulose Acetate	0.45	13	200
MPCA025045	Cellulose Acetate	0.45	25	100
MPCA047045	Cellulose Acetate	0.45	47	50
MPCA090045	Cellulose Acetate	0.45	90	25
MPCA142045	Cellulose Acetate	0.45	142	25
MPCA293045	Cellulose Acetate	0.45	293	25
MPCA013080	Cellulose Acetate	0.8	13	200
MPCA025080	Cellulose Acetate	0.8	25	100
MPCA047080	Cellulose Acetate	0.8	47	50
MPCA090080	Cellulose Acetate	0.8	90	25

## PP Membrane Filter

- Hydrophilic
- High flow rate
- High physical strength
- Strength and dimension stability

Cat. No.	Filter Medium	Pore Size(μm)	Diameter(mm)	Qty/pack
MPDF13-022PP	PP	0.22	13	200
MPDF25-022PP	PP	0.22	25	200
MPDF47-022PP	PP	0.22	47	100
MPDF90-022PP	PP	0.22	90	50
MPDF142-022PP	PP	0.22	142	50
MPDF293-022PP	PP	0.22	293	25
MPDF13-045PP	PP	0.45	13	200
MPDF25-045PP	PP	0.45	25	200
MPDF47-045PP	PP	0.45	47	100
MPDF90-045PP	PP	0.45	90	50
MPDF142-045PP	PP	0.45	142	50
MPDF13-100PP	PP	1.0	13	200
MPDF25-100PP	PP	1.0	25	200
MPDF47-100PP	PP	1.0	47	100
MPDF90-100PP	PP	1.0	90	50
MPDF142-100PP	PP	1.0	142	50

## Sterile MCE Gridded Membrane

Micropure™ Sterile MCE Gridded Membrane are widely used in Kinds of microorganisms examination. They are sterile-sealed, without protective paper on top of each filter, and in a individual package on a band. The special pleating of the band units ensures that they are perfectly flat when dispensed. 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.



## Features

- Excellent retention and colony growth, high recovery rates of microorganisms
- Individually wrapped in easy-peel band pack, gamma irradiation  
Calibrated Mixed Cellulose Esters filters, which designed to maximize flow rates
- The filter type, diameter, lot number, sterilization and expiration date are printed on the package of each membrane filter unit for complete traceability

## Specifications

**Filter Media:** Mixed Cellulose Esters

**Color:** White or black with Gridded

**Wettability:** Hydrophilic

**Max. Operating Temperature (Water):** 74 °C

**Extractables (Boiling Water):** < 2%

**Sterilization:** Sterilized by gamma irradiation



## Application

- General purpose of all microorganisms examination in medical, wine, beverage and pharmaceutical industry
- Designed for use in vacuum and pressure filtration applications  
Individually packed, sterile ideal for microbiology analysis and sterility testing
- E. Coli bacteria recovery and detection in water/waste water analysis
- Analysis of yeast and mold and Legionella sp. examination of White, beige colonies

## Ordering Information

Cat No.	Filter color	Pore size (mm)	Filter diameter(mm)	Pcs/pk
MPMCE047022GWS	White with black grid	0.22	47mm	100
MPMCE047045GWS		0.45	47mm	100

Available in pore sizes ranging from 0.2 µm to 0.8 µm; in diameters of 47 mm.

## Microfil™ Filter Paper

Micropore offers wide size ranges and grades of special paper products including; Filter Paper, Quartz Fiber Filter, Glass Fiber Filter They are manufactured from the highest quality materials under strict quality control guidelines.

- 1: Quantitative Ashless Filter Paper
- 2: Qualitative Ashless Filter Paper
- 3: Glass Fiber Filter
- 4: Quartz Fiber Filter



### Quantitative Ashless Filter Paper

- Made of Highest quality alpha cotton cellulose "Ashless" (Ash content 0.01%)
- High resistance to moisture
- Acid washed and rinsed with ultrapure water to neutralize
- Four kinds of flow rates are available: Fast, Medium, Slow
- Round format and square format are available
- Special sizes available upon request

Cat. No.	Diameter (mm)	Flow Rate Grade	Pore Size (µm)	Ash	Qty/pack
MFQN399	12.7	Fast	20~25	0.01%	500
MFQN400	25	Fast	20~25	0.01%	500
MFQN403	42.7	Fast	20~25	0.01%	500
MFQN404	47	Fast	20~25	0.01%	500
MFQN405	55	Fast	20~25	0.01%	500
MFQN406	70	Fast	20~25	0.01%	100
MFQN407	90	Fast	20~25	0.01%	100
MFQN408	110	Fast	20~25	0.01%	100
MFQN409	125	Fast	20~25	0.01%	100
MFQN410	150	Fast	20~25	0.01%	100
MFQN411	180	Fast	20~25	0.01%	100
MFQN412	185	Fast	20~25	0.01%	100
MFQN413	240	Fast	20~25	0.01%	100
MFQN414	320	Fast	20~25	0.01%	100
MFQN415	450	Fast	20~25	0.01%	100
MFQN416	8x10inches	Fast	20~25	0.01%	100
MFQN419	12.7	Medium	8	0.01%	500
MFQN420	25	Medium	8	0.01%	500
MFQN424	47	Medium	8	0.01%	500
MFQN425	55	Medium	8	0.01%	500
MFQN426	70	Medium	8	0.01%	100



MFQN427	90	Medium	8	0.01%	100
MFQN428	110	Medium	8	0.01%	100
MFQN429	125	Medium	8	0.01%	100
MFQN430	150	Medium	8	0.01%	100
MFQN431	180	Medium	8	0.01%	100
MFQN432	185	Medium	8	0.01%	100
MFQN433	240	Medium	8	0.01%	100
MFQN434	320	Medium	8	0.01%	100
MFQN435	450	Medium	8	0.01%	100
MFQN436	8x10inches	Medium	8	0.01%	100
MFQN439	12.7	Slow	2.5	0.01%	500
MFQN440	25	Slow	2.5	0.01%	500
MFQN442	47	Slow	2.5	0.01%	500
MFQN443	55	Slow	2.5	0.01%	500
MFQN444	70	Slow	2.5	0.01%	100
MFQN445	90	Slow	2.5	0.01%	100
MFQN446	110	Slow	2.5	0.01%	100
MFQN447	125	Slow	2.5	0.01%	100
MFQN448	150	Slow	2.5	0.01%	100
MFQN449	180	Slow	2.5	0.01%	100
MFQN450	185	Slow	2.5	0.01%	100
MFQN451	240	Slow	2.5	0.01%	100
MFQN452	320	Slow	2.5	0.01%	100
MFQN453	450	Slow	2.5	0.01%	100
MFQN454	8x10inches	Slow	2.5	0.01%	100

### Qualitative Ashless Filter Paper

- Made of Highest quality alpha cotton cellulose "Ashless" (Ash content 0.01%)
- Acid washed and rinsed with ultrapure water to neutralize
- Five kinds of flow rate are available: Fast, Medium Fast, Medium, Medium Slow, Slow
- Round format and square format are all available, Special sizes available upon request

Cat. No.	Diameter (mm)	Flow Rate Grade	Pore Size (µm)	Ash	Qty/pack
MFQL775	70	Fast	20~25	0.01%	100
MFQL776	90	Fast	20~25	0.01%	100
MFQL777	110	Fast	20~25	0.01%	100
MFQL778	125	Fast	20~25	0.01%	100
MFQL779	150	Fast	20~25	0.01%	100
MFQL780	180	Fast	20~25	0.01%	100
MFQL769	70	Medium	8	0.01%	100
MFQL770	90	Medium	8	0.01%	100

MFQL771	110	Medium	8	0.01%	100
MFQL772	125	Medium	8	0.01%	100
MFQL773	150	Medium	8	0.01%	100
MFQL774	180	Medium	8	0.01%	100
MFQL763	70	Slow	2.5	0.01%	100
MFQL764	90	Slow	2.5	0.01%	100
MFQL765	110	Slow	2.5	0.01%	100
MFQL766	125	Slow	2.5	0.01%	100
MFQL767	150	Slow	2.5	0.01%	100
MFQL768	180	Slow	2.5	0.01%	100

### Glass Fiber Filter

- Glass fiber filters are manufactured from 100% borosilicate glass
- Excellent wet strength for easy handling and filter integrity
- Broaden diameter range: 13mm~293mm. Special sizes available upon request
- Available with binder free

Cat. No.	Grade	Pore si (um)	Diameter (mm)	Binder	Qty/pack
MFGF005	GFA	1.6	13	No	100
MFGF006	GFA	1.6	24	No	100
MFGF007	GFA	1.6	25	No	100
MFGF008	GFA	1.6	37	No	100
MFGF009	GFA	1.6	42.5	No	100
MFGF010	GFA	1.6	47	No	100
MFGF011	GFA	1.6	50	No	100
MFGF012	GFA	1.6	55	No	100
MFGF013	GFA	1.6	70	No	100
MFGF014	GFA	1.6	90	No	100
MFGF001	GFA	1.6	110	No	100
MFGF002	GFA	1.6	125	No	100
MFGF003	GFA	1.6	142	No	100
MFGF004	GFA	1.6	150	No	100
MFGF000	GFA	1.6	8x10inches	No	100
MFGF020	GFB	1.0	21	No	100
MFGF021	GFB	1.0	24	No	100
MFGF022	GFB	1.0	25	No	100
MFGF023	GFB	1.0	37	No	100
MFGF024	GFB	1.0	42.5	No	100
MFGF025	GFB	1.0	47	No	100
MFGF026	GFB	1.0	50	No	100

MFGF027	GFB	1.0	55	No	100
MFGF028	GFB	1.0	70	No	100
MFGF029	GFB	1.0	90	No	100
MFGF016	GFB	1.0	110	No	100
MFGF017	GFB	1.0	125	No	100
MFGF018	GFB	1.0	142	No	50
MFGF019	GFB	1.0	150	No	25
MFGF015	GFB	1.0	8x10inches	No	100
MFGF038	GFC	1.2	21	No	100
MFGF039	GFC	1.2	24	No	100
MFGF037	GFC	1.2	25	No	100
MFGF036	GFC	1.2	37	No	100
MFGF040	GFC	1.2	42.5	No	100
MFGF041	GFC	1.2	47	No	100
MFGF042	GFC	1.2	50	No	100
MFGF043	GFC	1.2	55	No	100
MFGF044	GFC	1.2	70	No	100
MFGF035	GFC	1.2	90	No	100
MFGF031	GFC	1.2	110	No	100
MFGF032	GFC	1.2	125	No	100
MFGF033	GFC	1.2	142	No	100
MFGF034	GFC	1.2	150	No	100
MFGF030	GFC	1.2	8x10inches	No	100
MFGF050	GFD	2.7	25	No	100
MFGF051	GFD	2.7	21	No	100
MFGF052	GFD	2.7	24	No	100
MFGF053	GFD	2.7	37	No	100
MFGF054	GFD	2.7	42	No	100
MFGF055	GFD	2.7	47	No	100
MFGF056	GFD	2.7	50	No	100
MFGF057	GFD	2.7	55	No	100
MFGF058	GFD	2.7	70	No	100
MFGF059	GFD	2.7	90	No	100
MFGF046	GFD	2.7	110	No	100
MFGF049	GFD	2.7	125	No	100
MFGF047	GFD	2.7	142	No	100
MFGF048	GFD	2.7	150	No	100
MFGF045	GFD	2.7	8x10inches	No	100
MFGF068	GFF	0.7	21	No	100
MFGF069	GFF	0.7	24	No	100
MFGF070	GFF	0.7	25	No	100
MFGF065	GFF	0.7	37	No	100
MFGF066	GFF	0.7	42	No	100

MFGF071	GFF	0.7	47	No	100
MFGF072	GFF	0.7	50	No	100
MFGF073	GFF	0.7	55	No	100
MFGF070	GFF	0.7	70	No	100
MFGF067	GFF	0.7	90	No	100
MFGF061	GFF	0.7	110	No	100
MFGF062	GFF	0.7	125	No	100
MFGF063	GFF	0.7	142	No	100
MFGF064	GFF	0.7	150	No	100
MFGF060	GFF	0.7	8x10inches	No	100

### Glass Fiber Filter with Binder

- Glass fiber filters are manufactured from 100% borosilicate glass
- Excellent wet strength for easy handling and filter integrity
- Broaden diameter range: 13mm~293mm. Special sizes available upon request
- Glass Fiber with Organic Binder

Cat. No.	Grade	Binder	Binder Material	Diameter	Qty/pack
MFGF075	GF10	Yes	Organic	13	100
MFGF076	GF10	Yes	Organic	25	100
MFGF077	GF10	Yes	Organic	37	100
MFGF078	GF10	Yes	Organic	47	100
MFGF079	GF10	Yes	Organic	50	100
MFGF080	GF10	Yes	Organic	70	100
MFGF081	GF10	Yes	Organic	90	100
MFGF082	GF10	Yes	Organic	110	100
MFGF083	GF10	Yes	Organic	125	100
MFGF084	GF10	Yes	Organic	142	100
MFGF085	GF10	Yes	Organic	150	100
MFGF086	GF10	Yes	Organic	8x10inches	100

## PM1, PM2.5 Monitoring Membrane Filters

Micropure PM1, PM2.5 monitoring membrane are manufactured according to US EPA 40 CFR Part 50, Appendix L. The thin, high purity and high retentive PTFE film are sequentially numbered and supported with an inert PMP or PP support ring. Additionally, extremely low extractables and fluorescence background benefit in trace element analyses, e.g. ICP-MS & ED-XRF.



### Features

- Conform to EPA 40 CFR Part 50, Appendix L.
- Sequentially numbered on each membrane
- Supporting design eliminates curling, easy for manual and automation operation
- High retention, extremely low metal background
- Excellent chemical and thermal stability
- Manufactured under ISO9001 quality system and 100,000 Class clean room

### Specifications

Material	high-purity ePTFE
Pore size	2µm
Support ring material	PMP or PP
Filter diameter	46.2±0.25mm
Filter thickness	40±10µm
Support ring thickness	0.38±0.04mm
Support ring width	3.68±0.00, -0.51mm
Collection efficiency(0.3 µm DOP)	> 99.7%
Pressure drop and Flow rate	< 30cm H <sub>2</sub> O column @ 16.67L/min
Filter Weight stability	< 20µg
Temperature stability	< 20µg
Humidity-induced weight increases stability	< 10µg
Alkalinity	< 25µeq/g

## Reference Value of Metal Element content by ICP-MS analysis

Element	ng/cm <sup>2</sup>	Element	ng/cm <sup>2</sup>
Al	0.0088	Mn	0.0004
Si	0.0303	Fe	0.1403
K	0.0763	Co	N.D.
Ca	0.0128	Ni	N.D.
Sc	0.0001	Cu	0.0004
Ti	0.0031	Zn	N.D.
V	N.D.	Ga	N.D.
Cr	0.0571	Ge	0.0003
As	N.D.	Se	0.0018
Rb	N.D.	Sr	0.0001
Mo	0.0001	Rh	N.D.
Pd	N.D.	Ag	0.0015
Cd	0.0001	Sb	0.0002
Cs	N.D.	Ba	N.D.
Au	N.D.	Pb	0.0074
Hg	0.0088		

## Relevant Standard

US- EPA 40 CFR Part 50, Appendix L.

China- HJ656-2013 Technical specification for gravimetric measurement methods of PM<sub>2.5</sub> in ambient air

EU- EN12341 Ambient air- Standard gravimetric measurement method for the determination of the PM<sub>10</sub> or PM<sub>2.5</sub> mass concentration of suspended particulate matter

## Selection Reference

Micropore	Whatman	Pall
Micropure PM1, PM2.5 Monitoring Membrane Filters	PM1, PM2.5 Monitoring Membrane Filter 7592-104 7592-304	PTFE PM2.5 air sampling membrane R2PJ047

## 46.2mm PTFE 2µm with support ring

Membrane	Pore Size	QTY/PK	Support material	Part No.
PTFE	2µm	50	PP	MP2AF462P
PTFE	2µm	50	PMP	MP2AF462M

## Ordering Information

Cat No	Description	Package
MP1AF462	PTFE 1µm, 46.2mm	50
MP3AF462	PTFE 3µm, 46.2mm	50
MP1AF370	PTFE 1µm, 37mm	50
MP2AF370	PTFE 2µm, 37mm	50
MP3AF250	PTFE 3µm, 25mm	50

## Micropore Technology

ROOM NO. 1010, COMMERCIAL BUILDING, FANGYUAN MANSION, TAIZHOU, ZHEJIANG, CHINA 318000  
E-mail: [info@microporefilter.com](mailto:info@microporefilter.com)