

MCE Membrane Filters

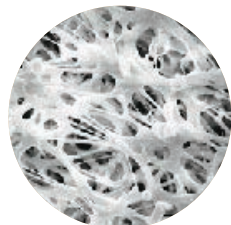
Mixed Cellulose Ester (MCE) Filter Membrane Discs are manufactured from a mixture of cellulose acetate and cellulose nitrate. MCE membrane filters are one of the most widely used filters in both air monitoring and analytical applications.



DIAMETER	PORE SIZE	FILTER SURFACE	NOTES	U/M	PRODUCT	
25MM	0.2µ	Plain White	○	100/pk	FMCE0225	
	0.45µ	Plain White	○	100/pk	FMCE425	
	0.45µ	Black Grids	⊗	100/pk	FGMCE425	
	0.8µ	Plain White	○	100/pk	FMCE825	
	0.8µ	Plain White	○	Match Weighed Pairs	50 pairs	FMCE825-MW50
	0.8µ	Black Grids	⊗	100/pk	FGMCE825	
	0.8µ	Green Grid	⊗	100/pk	FGGMCE825	
	1.2µ	Plain White	○	100/pk	FMCE125	
	1.2µ	Black Grids	⊗	100/pk	FGMCE125	
	5.0µ	Plain White	○	100/pk	FMCE525	
37MM	0.2µ	Plain White	○	100/pk	FMCE0237	
	0.45µ	Plain White	○	100/pk	FMCE4537	
	0.45µ	Black Grids	⊗	100/pk	FGMCE4537	
	0.8µ	Plain White	○	100/pk	FMCE837	
	0.8µ	Plain White	○	Includes 34mm Pads	100/pk	FMCE837-T1*
	0.8µ	Plain White	○	Match Weighed Pairs	50 Pairs	FMCE837-MW50
	0.8µ	Plain White	○	Match Weighed Pairs	50 pairs	FMCE837-T1-MW50*
	0.8µ	Black Grids	⊗	100/pk	FGMCE837	
	1.2µ	Plain White	○	100/pk	FMCE137	
	1.2µ	Black Grids	⊗	100/pk	FGMCE137	
	5.0µ	Plain White	○	100/pk	FMCE537	
47MM	0.2µ	Plain White	○	100/pk	FMCE0247	
	0.45µ	Plain White	○	100/pk	FMCE4547	
	0.45µ	Black Grids	⊗	100/pk	FGMCE4547	
	0.8µ	Plain White	○	100/pk	FMCE847	
	0.8µ	Plain White	○	100/pk	FMCE847-T1*	
	0.8µ	Plain White	○	Match Weighed Pairs	50 Pairs	FMCE847-MW50
	0.8µ	Plain White	○	Match Weighed Pairs	50 Pairs	FMCE847-T1-MW50*
	0.8µ	Black Grids	⊗	100/pk	FGMCE847	
	0.8µ	Green Grid	⊗	100/pk	FGGMCE847	
	1.2µ	Black Grids	⊗	100/pk	FGMCE147	
	1.2µ	Plain White	○	100/pk	FMCE147	
	5.0µ	Plain White	○	100/pk	FMCE5047	

* Meets requirements of ASTM D2276

PVC Membrane Filters

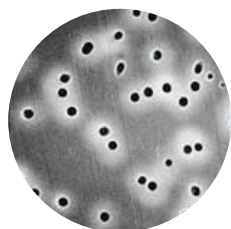


Polyvinyl Chloride (PVC) Membrane Filters are excellent membrane filters for sampling airborne metals, silica, and dust. Comprised of inherently low ash pure homopolymer PVC, these filters are particularly well suited to provided interference-free silica determinations. Low moisture pick-up and low tare weight assure gravimetric stability.

Features:

- Specified for use in numerous NIOSH and OSHA methods
- Suitable for gravimetric analysis and respirable dust sampling

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	5.0μ	GLA-5000		100/pk	FPVC525
	5.0μ	GLA-5000	Match Weighed	50 Pairs	FPVC525-MW20
37MM	5.0μ	GLA-5000		100/pk	FPVC537
	5.0μ	GLA-5000	Match Weighed	50 Pairs	FPVC537-MW20
47MM	5.0μ	GLA-5000		100/pk	FPVC547
8" x 10" Sheet	5.0μ	GLA-5000		10/pk	FPVC8X10



Polycarbonate Membrane Filters

Polycarbonate track-etch (PCTE) membrane filters are manufactured from polycarbonate films. They feature a smooth flat surface, exhibit well-controlled pore size and shape, and have very low levels of extractables. Naturally hydrophobic.

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	0.2μ	Polycarbonate		100/pk	FPC225
	0.4μ	Polycarbonate		100/pk	FPC4525
	0.8μ	Polycarbonate		100/pk	FPC825
	5.0μ	Polycarbonate		100/pk	FPC525
37MM	0.2μ	Polycarbonate		100/pk	FPC0237
	0.4μ	Polycarbonate		100/pk	FPC4537
	0.8μ	Polycarbonate		100/pk	FPC837
47MM	0.4μ	Polycarbonate		100/pk	FPC447
	0.8μ	Polycarbonate		100/pk	FPC847

PTFE Membrane Filters

PTFE membrane filters provide excellent chemical resistance and are suitable for use in the most aggressive sampling environments.

Features:

- Strong, chemically resistant membrane
- Naturally hydrophobic
- Suitable for gravimetric sampling
- Compatible with autoclave or ETO sterilization



PTFE with a Laminated PTFE Support Layer

A unique PTFE membrane with a laminated PTFE support layer provides improved handling combined with the superior chemical resistance pure PTFE provides. Suitable for use in particulate and gravimetric sampling. The 2.0 μ pore size is suitable for use sampling Polynuclear aromatic hydrocarbons in the NIOSH 5506 and 5515 analytical methods.

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	0.5 μ	Zefluor™		100/pk	FPTPT525
	1.0 μ	Zefluor™		100/pk	FPTPT125
	1.5 μ	ZePore™		100/pk	FPTFE1525
	2.0 μ	Zefluor™		100/pk	FPTPT225
37MM	1.0 μ	Zefluor™		50/pk	FPTPT137
	1.5 μ	ZePore™		50/pk	FPTFE1537
	2.0 μ	Zefluor™		50/pk	FPTPT237
47MM	0.5 μ	Zefluor™		50/pk	FPTPT0547
	1.0 μ	Zefluor™		50/pk	FPTPT147
	1.5 μ	ZePore™		50/pk	FPTFE1547
	2.0 μ	Zefluor™		50/pk	FPTPT247

PTFE with no support layer (pure PTFE)

Pure unsupported porous PTFE membranes demonstrate exceptional chemical resistance. Suitable for use with NIOSH method 5013.

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	5.0 μ	Unlaminated	140 μ m Thick	100/pk	FPTU525
	5.0 μ	Unlaminated	610 μ m Thick	100/pk	IW-PTFE050-025
37MM	5.0 μ	Unlaminated	140 μ m Thick	100/pk	FPTU537
	5.0 μ	Unlaminated	610 μ m Thick	100/pk	IW-PTFE050-037
47MM	5.0 μ	Unlaminated	140 μ m Thick	50/pk	FPTU547
	5.0 μ	Unlaminated	610 μ m Thick	50/pk	IW-PTFE050-047

PTFE with a Laminated Polypropylene Support Layer

These PTFE filters have a polypropylene backing laminated onto them to improve durability and ease of handling.

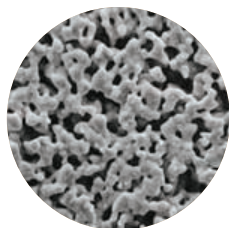
DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
37MM	0.45 μ	Laminated PP		100/pk	FPTP4537
	1.0 μ	Laminated PP		100/pk	FPTP137
47MM	0.45 μ	Laminated PP		100/pk	FPTP4547

PTFE with a PMP (polymethylpentene) Support Ring (Teflo™)

Featuring a polymethylpentene (PMP) support ring bonded to the base PTFE material. Suitable for use in PM10 and PM2.5 dichotomous and other air sampling techniques.

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	3.0µ	Laminated PMP Ring		50/pk	FPTPMP325
37MM	2.0µ	Laminated PMP Ring		50/pk	FPTPMP237
47MM	2.0µ	Laminated PMP Ring		50/pk	FPTPMP247

Silver Membrane Filters



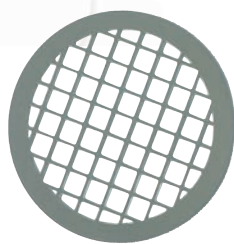
Silver Metal Filter Membranes are pure metallic silver (99.97% pure silver) and are available with particle retention ratings of 0.45 or 0.8 microns. Silver metal membranes are used in a variety of filtration applications, and their ability to withstand extreme chemical and thermal stress makes them ideal for applications involving aggressive fluids and/or high temperatures.

Features:

- 99.97% pure silver
- High temperature and chemical resistance
- Economical - can be cleaned & reused
- Smooth surface for particle capture and easy observation

DIAMETER	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	0.45µ	Silver		50/pk	FS2545
	0.8µ	Silver		50/pk	FS258
37MM	0.8µ	Silver		25/pk	FS378

Filter Supports



These filter supports are used behind filter membranes to support them from collapsing while still allowing free air flow through them.

Available in 3 different styles:

- Cellulose pads are made up of 100% pure cellulose and the most common support used in filter cassettes.
- Porous plastic supports work well when sampling chemicals that are not compatible with cellulose.
- Stainless steel grids can be used in a wide range of filter holders and can easily be cleaned and re-used.

SIZE	MATERIAL	NOTES	PACK SIZE	PRODUCT
25MM	Cellulose		100/pk	FSP25
	Porous Plastic		100/pk	PFSP25
	Stainless Steel	Wide Mesh Grid	Each	ZA0014
34MM	Cellulose	Thick Pads	100/pk	FSP34-FM
37MM	Cellulose		100/pk	FSP37
	Cellulose	Support Ring For Use with NIOSH 5506/5515/5044	100/pk	FSP37R
	Porous Plastic		100/pk	PFSP37
	Stainless Steel	Wide Mesh Grid	Each	ZA0015
46.5MM	Cellulose	Adsorbent, Thick	100/pk	FSP465-AH
47MM	Cellulose		100/pk	FSP47
	Stainless Steel	Wide Mesh Grid	Each	ZA0016
8" x 10"	Cellulose		10/pk	FSP8X10

Glass Fiber Filters



Zefon glass microfiber filters are produced from 100% borosilicate glass microfiber without the use of binders or strengthening agents. The fibers used to manufacture these depth filters are smooth and uniform. This permits their characteristically high flow rates while allowing retention of exceptionally small particles and high load capacity. These characteristics are particularly important in applications involving high concentrations of particulate.

Grade A-E

Grade A-E is the most popular grade used in air monitoring. Made from binderless borosilicate glass microfiber, it features a fine porosity and fast flow rate, with a 1.0µm size particle retention. DOP efficiency is 99.98%.

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	1.0µ	Grade AE		100/pk	IW-AE2500
37MM	1.0µ	Grade AE		100/pk	IW-AE3700
47MM	1.0µ	Grade AE		100/pk	IW-AE4700
90MM	1.0µ	Grade AE		100/pk	IW-AE9000
8" x 10"	1.0µ	Grade AE		100/pk	IW-AES810

Grade 934-AH®

Grade 934-AH® is the standard for sampling suspended solids content and related measurements (Standard Methods 2540D and EPA Method 160.2). Made from a binderless borosilicate glass microfiber that enables use up to 550° C while featuring a fine porosity, fast flow rate, and a 1.5µm size particle retention.

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	1.5µ	Grade 934-AH®		100/pk	IW-AH2500
37MM	1.5µ	Grade 934-AH®		100/pk	IW-AH3700
47MM	1.5µ	Grade 934-AH®		100/pk	IW-AH4700
8" x 10"	1.5µ	Grade 934-AH®		100/pk	IW-AHS810

Other Grades - Specialty

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	1.2µ	Grade C		100/pk	IW-C2500
25MM	0.7µ	Grade F		100/pk	IW-F2500
37MM	0.7µ	Grade F		100/pk	IW-F3700
47MM	0.7µ	Grade F		100/pk	IW-F4700

PTFE Coated Glass Fibers

These filters are made from pure borosilicate glass microfibers reinforced with woven glass cloth and bonded with PTFE. They feature low air resistance for use in critical aerosol sampling tests that demand filter purity and non-hygroscopic properties such as diesel exhaust, stack emission control, and ambient air monitoring for particulate concentration.

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	Not rated		99.95% (DOP)	100/pk	FGF25-PTFE
37MM	Not rated		99.95% (DOP)	100/pk	FGF37-PTFE
47MM	Not rated		99.95% (DOP)	100/pk	FGF47-PTFE

Quartz A

Quartz A is a binderless quartz microfiber featuring fine porosity with a 99.999% efficiency in air filtration for the retention of 0.6µm particles in air at a flow rate of 5cm/second. Primarily used in air pollution monitoring, atomic absorption spectroscopy, flame emission spectrometry and other applications where an extremely critical analysis is needed. Effective temperature range of up to 1000 °C.

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	0.6µ	Quartz A		100/pk	IW-Q2500
37MM	0.6µ	Quartz A		100/pk	IW-Q3700
47MM	0.6µ	Quartz A		100/pk	IW-Q4700
90MM	0.6µ	Quartz A		100/pk	IW-Q9000

Heat Treated Quartz Filters

These heat treated Quartz filters are uniquely designed for air monitoring in high temperature and aggressive atmospheres. Heat treated for reduction of trace organics and superior chemical purity. High flow rate and filtration efficiency. Ultra-pure soft waterprocessing to reduce residual ion content.

SIZE	PORE SIZE	TYPE	NOTES	U/M	PRODUCT
25MM	Not Rated	Tissuquartz	432µm thick, Up to 1093°C	100/pk	FTQ25
	2.0-2.2µ	Quartz A, Heat Treated	460µm thick Up to 1150°C	100/pk	IW-HT-Q2500
37MM	Not Rated	Tissuquartz	432µm thick, Up to 1093°C	25/pk	FTQ37
	2.0-2.2µ	Quartz A, Heat Treated	460µm thick Up to 1150°C	100/pk	IW-HT-Q3700
42.5MM	2.0-2.2µ	Quartz A, Heat Treated	460µm thick Up to 1150°C	100/pk	IW-HT-Q4250
47MM	Not Rated	Tissuquartz	432µm thick, Up to 1093°C	25/pk	FTQ47
	2.0-2.2µ	Quartz A, Heat Treated	460µm thick Up to 1150°C	100/pk	IW-HT-Q4700
90MM	2.0-2.2µ	Quartz A, Heat Treated	460µm thick Up to 1150°C	100/pk	IW-HT-Q9000