

MF-Millipore™ Filters

- A biologically inert mixture of cellulose acetate and cellulose nitrate



For more than 40 years, MF-Millipore filters have found numerous uses in the laboratory. Our wide selection allows you to choose the pore size, diameter, and color that best suits your application. If you have questions about which filter to use, contact your nearest Millipore office. We also offer a complete line of filter holders, pressure vessels, and other filtration accessories.*

Notes to Table

Flow rates

Initial flow rates for a liquid of 1 centipoise viscosity at the start of filtration before filter plugging is detectable (based on measurements with clean water and air). Actual initial flow rates may vary from the average values given here.

Water flow rates

Milliliters per minute per cm² of filtration area at 20 °C with a differential pressure of 0.7 bar (10 psi).

Air flow rate

Liters per minute per cm² of filtration area at 20 °C with a differential pressure of 0.7 bar (10 psi).

Bubble point

The differential pressure required to force air through the pores of the filter when wet with water.

Water extractables

5% or less

Product Selection Guide

Pore size (µm)		0.025	0.05	0.1	0.22
Membrane type		VS white	VM white	VC white	GS white
Wettability		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
Bubble point	bar	21.1	17.6	14.1	3.52
	psi	300	250	200	50
Thickness (µm)		105	105	105	150
Water flow rate		0.15	0.75	1.5	18
Air flow rate (L/min cm ²)		0.15	0.25	0.4	2
Porosity (%)		70	72	74	75
Protein binding (µg/cm ²)		150	150	150	150
Sterilization		Yes	Yes	Yes	Yes
Gravimetric extractables (% wgt)		<1.0	<1.0	<1.0	<1.0
Size (packaging)					
13 mm (100/pk)	Plain	VSWP 013 00	VMWP 013 00	VCWP 013 00	GSWP 013 00
	Gridded				
19 x 42 (100/pk)	Plain				
24 mm (100/pk)	Plain				GSWP 024 00
25 mm (100/pk)	Plain	VSWP 025 00	VMWP 025 00	VCWP 025 00	GSWP 025 00
	Gridded				
37 mm (100/pk)	Plain				GSWP 037 00 ¹
	Gridded				
47 mm (100/pk)	Plain	VSWP 047 00	VMWP 047 00	VCWP 047 00	GSWP 047 00
	Monitor refills/ matched weight pairs				
	Gridded				
50, 55, and 70 mm (100/pk)	Plain	VSWP 050 00 (50 mm)		VCWP 050 00 (50 mm)	GSWP 055 00 (55 mm)
	Gridded				
90 mm (25/pk)	Plain	VSWP 090 25	VMWP 090 25	VCWP 090 25	GSWP 090 00 (100/pk)
142 mm (50/pk)	Plain	VSWP 142 50		VCWP 142 50	GSWP 142 50
293 mm (25/pk)	Plain	VSWP 293 25		VCWP 293 25	GSWP 293 25
300 X 300 mm (10/pk)	Plain				
	Gridded				
30 cm X 300 cm (roll)	Plain	VSWP 000 10	VMWP 000 10		GSWP 000 10
	Gridded				

1. Monitor refills that include thin absorbent pads (AP1003700) for aerosol monitoring.
2. Matched weight filter pairs.
3. Developed for asbestos monitoring. Membranes are cut from selected and controlled stock to avoid contamination by fibers.
4. Monitor refills that include thick absorbent pads (AP30034P0) for liquid monitoring.
5. Matched weight pairs (monitor refills) with thick absorbent pads for liquid monitoring; 50 pair.
6. Matched weight pairs; 50 pair.

Applications Guide

Pore Size (µm)	0.025	0.05	0.1	0.22	0.3	0.45	0.45	0.65	0.8	0.8	1.2	3	5	8
Membrane Type	VS	VM	VC	GS	PH	HA white	HA black	DA	AA white	AA black	RA	SS	SM	SC
<i>Air monitoring</i>						■			■	■		■		■
<i>Life science</i>														
Bioassays				■	■		■		■					
Clarification of aqueous solutions						■					■			
Fluorescent assays										■				
Fluorescent bacteriological analysis							■							
Microdialysis of DNA and proteins	■	■	■											
Sterilizing filtration			■	■										
<i>Microbiology</i>														
Dairy microbiology								■						
Microbiological analysis*						■								
<i>Monitoring and clarification</i>														
Fluid monitoring												■	■	■
Particle collection and analysis												■	■	■
Particle monitoring					■		■	■	■	■				
Particle removal					■	■		■	■					
QC of fluid holding tanks												■	■	■
Retention of yeasts, molds, algae								■						

* For a complete selection of filters for microbiological QC, contact Millipore.

To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office:

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