

PALL) Life Sciences

Pall Emflon[®] FM Filter

Description

Pall **Emflon** FM filters are designed for cost-effective clarification of solvents used in the manufacture of antibiotics and other active pharmaceutical ingredients (APIs). These pharmaceutical grade filters contain a proprietary PTFE membrane and are compatible with a broad range of chemicals. They can also be used to ensure cleanliness of high purity solvents. Applications include removal of carbon or catalyst fines, and these filters are often used downstream of bulk solids removal systems.

Key Features

- Broad chemical compatibility
- Very high flow rates
- Low extractables
- Tolerant of high operating temperatures
- "No cage" option further reduces
 potential extractables

High Quality Standards

- Each filter supplied with a certificate of test
- Lot number traceable
- Meets USP Biological Reactivity, In Vivo, for class VI –121°C for Plastics
- FDA listed materials per 21 CFR



Compatibility at 20°C

This filter was specifically designed for improved compatibility and optimized economics in polishing a broad array of challenging solvents, including:

Acetic Acid, Glacial - Acetone -Acetonitrile Dimethylacetamide (DMAC) Dimethylformamide (DMF) Dimethylsulfoxide (DMSO) - Ethanol -Ethyl Acetate - n Heptane - Hexane -Hydrochloric Acid 38% -Isopropyl Alcohol (IPA) - Methanol -Methylene Chloride -Methyl Isobutyl Ketone (MIBK) -Methyl Tertiary Butyl Ether (MTBE) - Pyridine - Sodium Hydroxide, 50% -Tetrahydrofuran (THF) - Toluene - Water - Xylene

This partial list is provided for general guidance only.

Note: Because so many factors (eg elevated temperatures) can affect the chemical resistance of a given product, you should pre-test under your own operating conditions observing applicable safety practices such as those given in the Material Safety Data Sheet for each chemical. Pall Corporation can provide specific compatibility guidance, testing and data upon request.

USD 2017⁽¹⁾

Materials of Construction

Membrane	PTFE (hydrophobic)		
Support and Drainage Layers	Polypropylene		
Core, Cage and Endcaps	Polypropylene		

Operating Parameters				
Max Differential Pressure (△p)	4.1 bar (60 psi) @ 23°C (73°F) 2.1 bar (31 psi) @ 60°C (140°F)			
Max Operating Temperature	95°C (203°F) at 1.0 bar (14 psi) ∆p			

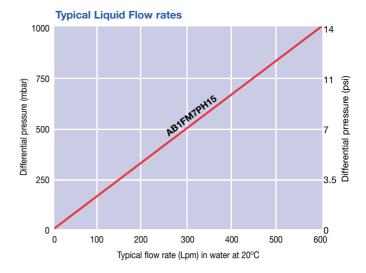
Extractables*

< 5mg
90mg
240mg
600mg
515mg

*These typical extractables are based on tests of sampled 254mm modules with cages at 20°C.

Filter Area (Per 254mm module)

Typical Effective Filtration Area	0.58m² (6.2ft²)
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Removal Ratings**

Particle size	Beta Ra	Beta Ratio (Efficiency)		
0.6µm	100	(99.0%)		
1µm	2000	(99.2%)		
2µm	5000	(99.98%)		
Зµm	>5000	(99.98%)		
4µm	>5000	(99.98%)		
>5µm	>5000	(99.98%)		

***As determined by a modified OSU-F2 test described in Pall publication USD 1329

Order Information (Part number denotes one filter, minimum order quantity 12)

AB-Series	S	A	FM		Ρ	H15		
MCY-Series		MCY1	MCY100 FM P		H2			
Code	Cage Option	Code	Nominal Length		Code	Adaptor Style	Code	Seal Option
В	Polypropylene cage	1	254mm		47	Single O-ring with locating fin	H15	FEP / Silicone
BA	No cage	2	508mm	-		(Fits in all Pall code 7 housings)	H2	PTFE
		3	762mm	7	Double O-ring with locating fin			
		4	1016mm					



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