

Description

Emflon filter elements are designed for ≥ 3 nm filtration of bulk gas applications found in the semiconductor industry.

Features

- Wide variety of applications
- High particle retention
- High flow rates vs. differential pressure
- Optimized cartridge design
- Manufactured in a cleanroom environment
- 100% integrity tested

Specifications

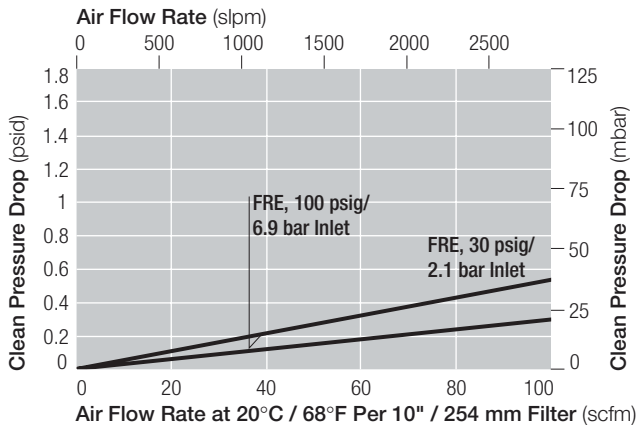
Materials of Construction

Components	Materials
Filter Medium	PTFE
Media Support	Polypropylene
Inner Core	Polypropylene
Outer Cage	Polypropylene
End Caps	Polypropylene
O-ring Options	Acid proof fluoroelastomer, FEP Encapsulated fluoroelastomer
Gasket Options	NBR, PTFE, fluoroelastomer, EPDM



Removal Ratings	≥ 3 nm (0.003 μ m)	
Filter Areas	AB1	MCY1001
	10" / 254 mm : 9.45 ft ² / 0.88 m ²	10" / 254 mm : 9.26 ft ² / 0.86 m ²
Nominal Length	10" / 254 mm 20" / 508 mm 30" / 762 mm 40" / 1,016 mm	
Diameter	2.75" / 70 mm	
O-ring Size / End Caps	Code 3 (222 double O-ring / flat end) Code 8 (222 double O-ring / finned end) Code 7 (226 double O-ring bayonet lock / finned end)	
Maximum Operating Temperature	194 °F / 90 °C	
Maximum forward differential pressure	80 psid @ 120 °F / 5.5 bar @ 50 °C 50 psid @ 194 °F / 3.5 bar @ 90 °C	

Pressure Drop vs. Gas Flow Rate (AB1, MCY1001)



Part Numbers / Ordering Information

O-Ring Seal

AB 1 2 3 E 4

Table 1

Code	Nominal length (mm / in)
1	254 / 10
2	508 / 20
3	762 / 30
4	1,016 / 40

Table 2

Code	Removal Ratings
FR	≥ 3 nm

Table 3

Code	O-ring Specifications
7	AS568A-226
8	AS568A-222
3	AS568A-222

Table 4

Code	O-ring Materials ^{*1}
H1	FEP Encapsulated Fluoroelastomer
HF	Acid-proof Fluoroelastomer

*1 Other O-ring material options available.

Representative example part numbers

AB1FR3EHF	AB2FR8EHF	AB2FR7EH1	AB3FR3EH1
AB1FR3EH1	AB2FR7EHF	AB3FR7EHF	AB4FR7EHF
AB1FR7EH1	AB2FR3EHF	AB3FR8EHF	AB4FR3EHF
AB1FR3EHF	AB2FR3EH1	AB3FR3EHF	

Gasket seal

MCY1001 7 E 8

Table 7

Code	Removal Ratings
FR	≥ 3 nm

Table 8

Code	Gasket Materials
H13	NBR
H2	PTFE
H	Fluoroelastomer
J	EPDM

* Part number suffix -ss has the label for gas application rating with (GAS 0.003 μm)

Representative example part numbers

MCY1001FREH2-SS
MCY1001FREJ-SS



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Products in this document may be covered by one or more of the following patent numbers: US5543047; US5690765; US6113784; US7083564; US7318800; EP0982061; EP0667800; EP1380331.

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