

## Description

Emflon filter elements are designed for  $\geq 3$  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

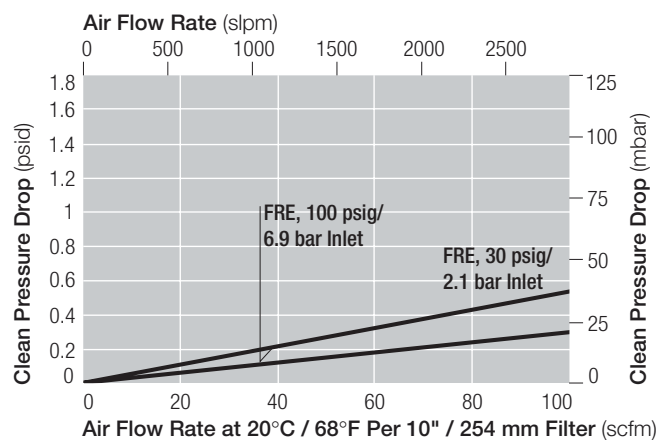
### Materials of Construction

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

Removal Ratings	$\geq 3$ nm
Filter Areas	10" / 254 mm : 9.45 ft <sup>2</sup> / 0.88 m <sup>2</sup>
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



## Part Numbers / Ordering Information

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 <sup>*1</sup>
H1	FEP Encapsulated Fluoroelastomer
HF	Acid-proof Fluoroelastomer

<sup>\*1</sup> Other O-ring material options available.

### Representative example part numbers

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



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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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