

## Profile® II Filters

### Applications

CMP slurry, Photochemicals, Plating solution, Acids, Alkalis, Solvents, DI water, Paints, Photoresists

### Description

Profile II filters are all polypropylene innovative depth filters. The fibers in Profile II filters may be considered continuous. No binder resin is used – the fibers are “bonded” by intertwining during the manufacturing process. As a result, Profile II filters show no media migration. Profile II filters can be expected to yield longer service life and lower your total filtration costs.

### Revolutionary Cartridge Construction

#### Outer section

(Tapered pore structure: longer service life)

This section has a continuously graded pore structure for built-in prefiltration. With its tapered pore structure and its depth combine to provide long life in service.

#### Inner section

(Constant pore: reliable filtration)

The constant pore size provides reliable filtration.

### Features

- Excellent removal efficiency
- No media migration
- Low pressure drop
- High contaminant holding capacity
- Low extractables (no binders or resins)
- Broad chemical compatibility

### Specifications

#### Materials of Construction

Components	Materials
Filter medium	Polypropylene
Core	Polypropylene
Endcaps and cage (MCY, AB type)	Polypropylene
Sealing methods (RMF type)	Santoprene <sup>1</sup> rubber

<sup>1</sup> Santoprene is a trademark of Exxon Mobil Corporation.

#### Operating Conditions

Maximum Temperature <sup>2</sup>	82 °C / 180 °F
Maximum Differential Pressure	0.41 MPa (< 30 °C) 0.34 MPa (< 50 °C) 0.21 MPa (< 70 °C) 0.10 MPa (< 82 °C)

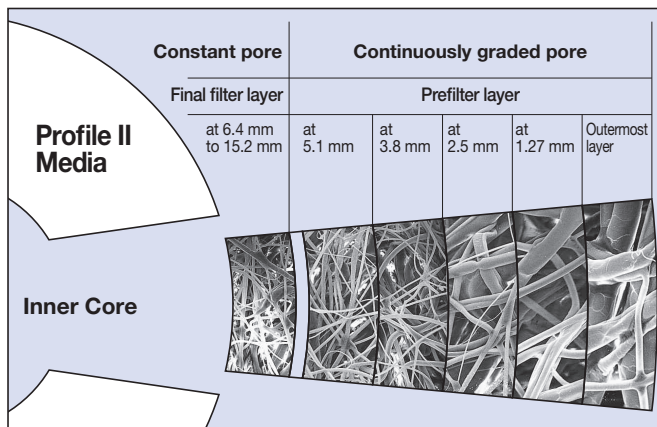
<sup>2</sup> Consult your local Pall representative on the condition at high temperature over 49 °C.



AB type      RMF type      MCY type      RF type

Configuration	Housing
RF type	R type housing
MCY type	M type housing
RMF type	M type housing
AB type	A type housing with the same O-ring code

### Tapered Pore Structure<sup>3</sup>



<sup>3</sup> Shown above are sample sections of Profile II filter medium from a typical Profile II cartridge at 300X.

## Profile II Filters

### Part Numbers / Ordering Information

RF type : R  F

MCY type : MCY100  Y

RMF type : RM  F  H21

AB type : AB  Y

**Table 1** (mm)

Code	Cartridge Nominal Length				
	Nominal Length	RF	RMF	MCY	AB
1	10"	254	254	245	258
2	20"	510	509	505	506
298	30"	=	764	-	-
3	30"	768	-	760	753
4 <sup>4</sup>	40"	1022	-	1018	1001

4 Custom-order products

(mm)

Type	Cartridge		Endcaps Inner diameter
	Outer diameter	Inner diameter	
RF	64	28	-
RMF	64	28	-
MCY	70	28	26
AB	70	28	-

**Table 2**

Cartridge Grade	Removal ratings				Typical Clean Pressure Drop
	Liquid Service Rating in um at % Efficiency <sup>5</sup>				
	90 %	99 %	99.9 %	99.98 %	
003	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	64
005	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	0.5 <sup>6</sup>	51
007	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	0.7 <sup>6</sup>	49
010	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	< 0.5 <sup>6</sup>	1.0	47
020	< 1.0 <sup>6</sup>	1.0	1.5	2.0	35
030	< 1.0 <sup>6</sup>	1.8	2.5	3.0	27
050	2.0	3.0	4.0	5.0	15
070	3.5	5.0	6.0	7.0	9
100	6.5	7.5	9.0	10.0	6
120	7.0	9.0	11.0	12.0	4
150	8.0	10.0	13.0	15.0	3
200	10.0	14.0	18.0	20.0	1.8
300	14.0	18.0	26.0	30.0	1.5
400	20.0	30.0	35.0	40.0	< 1
700	32.0	50.0	70.0	-	< 1
900	50.0	78.0 <sup>6</sup>	90.0 <sup>6</sup>	-	< 1
1200	60.0	100.0 <sup>6</sup>	120.0 <sup>6</sup>	-	< 1

<sup>5</sup> Tested by ISO16889 F2 method ( $\beta$  - 5,000)

<sup>6</sup> Extrapolated values

**Table 3**

Code	Gasket Options
H13	NBR (standard)
J	EPDM
H	Fluoroelastomer
H4	Silicone
H21	Santoprene

**Table 4**

Code	O-ring Size
7	AS568A - 226
8	AS568A - 222
20	AS568A - 226

**Table 5**

Code	O-ring Options
H4	Silicone (standard)
H	Fluoroelastomer
J	EPDM



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