

# Fluorocap®-XL Filter Capsule

Highest-performance all-fluoropolymer capsule for the most aggressive applications

The Fluorocap®-XL encapsulated filter cartridge is setting the new standard for exceptional flow rates and on-stream life. It utilizes a larger diameter cartridge combined with our unique SELECT pleating that increases filtration area by over 70%. This results in increased bath turnover and longer filter life to meet the demands of today's advanced 300mm fabs. The all-fluoropolymer construction provides excellent chemical resistance for the most aggressive applications up to 180 °C. Its integral filter design maximizes up-time with safe and simple change-outs. Available wet-packed for quick installation or Ultraclean wet-packed which of the lowest metals extractables in the industry.



## Contact Information

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## Benefi

- Extra large fi longer life
- Highest flow rates for maximum bath turn over
- Wet-pack option for quick installation
- Ultraclean option for absolute cleanliness
- All-fluoropolymer for maximum chemical resistance
- 100% integrity tested for consistent quality

## Applications

- et etch and clean
  - Hot phosphoric acid
  - Sulfuric acid
  - ofluoric acid
  - Nitric acid
  - Piranha
  - SC1, SC2
  - NMP-based solvents
- Other high temperature or ozonated processes



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# Fluorocap®-XL Filter Capsule

## SPECIFICATIONS

### Materials of Construction

100% Fluoropolymer construction  
All components are thermally bonded to ensure integrity and reduce extractables.

### Effective Filtration Area per 10" (250mm) Cartridge

22.5ft<sup>2</sup> (2.04 m<sup>2</sup>) 0.03µm  
21.5ft<sup>2</sup> (1.99 m<sup>2</sup>) 0.05µm  
18.5ft<sup>2</sup> (1.71 m<sup>2</sup>) 0.10µm

### Metals Extractables\*

Standard: <30ppb (total)  
Ultraclean: <7ppb (total)

\*In a 10% HNO<sub>3</sub> extraction

### Maximum Differential Pressure/Temperature

Forward: 70psid (4.8bar) @ 75 °F (24 °C)  
Standard: 50psid (3.4bar) @ 167 °F (75 °C)  
15psid (1.0bar) @ 300 °F (150 °C)

### Forward

HT option: 15psid (1.0bar) @ 356 °F (180 °C)

### Reverse:

50psid (3.4bar) @ 75 °F (24 °C)  
15psid (1.0bar) @ 250 °F (121 °C)

### Cleanliness (particle shedding)

Wet-packed: <2 particles/ml >0.2µm  
after 7gal @ 1gpm

### TOC/Resistivity Rinse-up (wet-packed)

TOC recovery within 3-5ppb of feed after 12gal @ 1gpm.

Resistivity recovery within 0.4megohm-cm of feed after 22gal @ 1gpm.

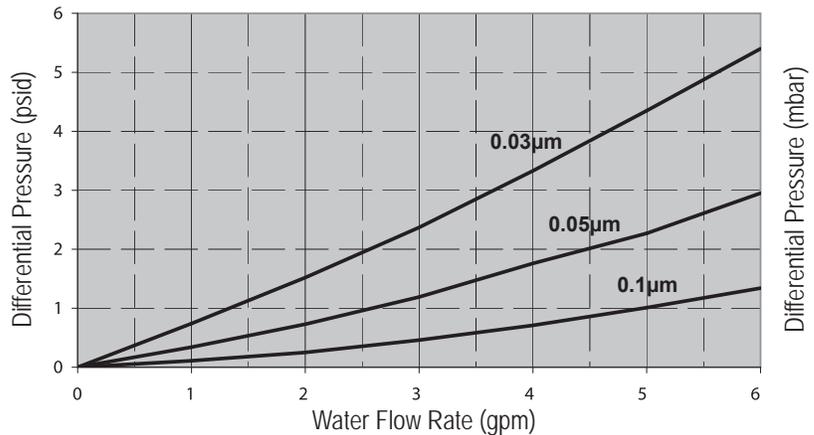
## Performance Attributes

### Water flow rates, Typical\*

Micron	gpm/psid	lpm/100mbar
0.03	1.2	6.6
0.05	2.7	15
0.1	6.5	36

\*Flow rates are for in-line Fluorocaps with 3/4" Parflare in-line fittings.

10-inch (250mm)  
Typical Water Flow Rate (lpm)



## Ordering Information

Each capsule is identified with a product number, pore size and lot number for traceability.

Style		Treatment		Element Length			Options		Connections <sup>1</sup>		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
F	In-Line	C	Dry Packed (Std.)	0	4"	100	C	Standard (150°C max)	F	3/4" Parflare	S	Same Side	923	0.03
		W	Ozonated UPW Flushed and Wet Packed	1	10"	250	H	High temperature (180°C max)	H	1/2" Parflare	D	180° Opposite Side	925	0.05
		U	Ultraclean	2	20"	500			J	3/4" Flarelock®			031	0.1
				4	10"	250 (short)								
T	T-Style	C	Dry Packed (Std.)	0	4"	100	C	Standard (150°C max)	F	3/4" Parflare	S	Same Side	923	0.03
L	L-Style (left)	W	Ozonated UPW Flushed and Wet Packed	1	10"	250	H	High temperature (180°C max)	W	3/4" Pillar	D	180° Opposite Side	925	0.05
		U	Ultraclean						Y	1/2" SP300	C	Centered	031	0.1

<sup>1</sup> Vent/Drain connections are 1/4" versions of the inlet/outlet fittings, except for codes K and W which are 1/2" Pillar vent/drain fittings.

Specifications are subject to change without notification.  
For User Responsibility Statement, see [www.parker.com/safety](http://www.parker.com/safety)  
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Flarelock is a trademark of Fluoroware, Inc.

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DS\_ME\_Fluorocap-XL Rev. B



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