

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 offers the lowest metals extractables in the industry.



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Benefits

- Extra large filtration area for 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

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



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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

22.5ft² (2.04 m²) 0.03µm
21.5ft² (1.99 m²) 0.05µm
18.5ft² (1.71 m²) 0.10µm

Metals Extractables*

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

*In a 10% HNO₃ 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.

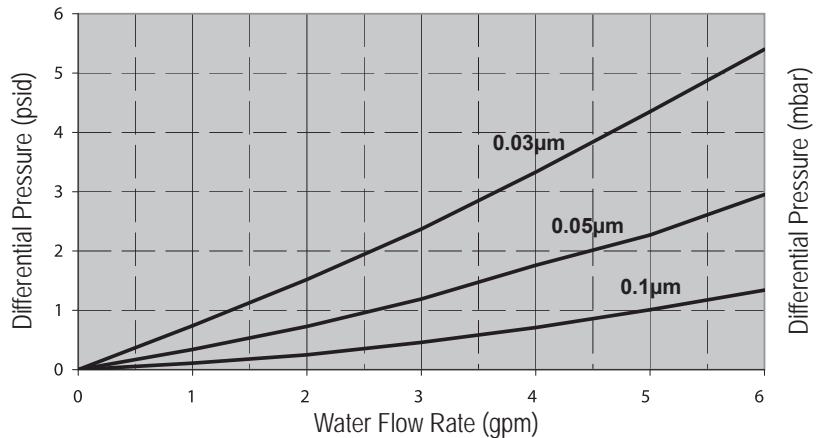
Resistivity recovery within 0.4megohm-cm
of feed after 22gal @ 1gpm.

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 ¾" 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 ¹		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	¾" Parflare	S	Same Side	923	0.03
		W	Ozonated UPW Flushed and Wet Packed	1	10"	250	H	High temperature (180°C max)	H	½" Parflare	D	180° Opposite Side	925	0.05
		U	Ultraclean	2	20"	500			J	¾" Flarelock®			031	0.1
				4	10"	250 (short)								

Styles		Treatment		Element Length			Options		Connections ¹		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
T	T-Style	C	Dry Packed (Std.)	0	4"	100	C	Standard (150°C max)	F	¾" 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	¾" Pillar	D	180° Opposite Side	925	0.05
		U	Ultraclean						Y	½" SP300	C	Centered	031	0.1

¹ Vent/Drain connections are ¼" versions of the inlet/outlet fittings, except for codes K and W which are ½" Pillar vent/drain fittings.

Specifications are subject to change without notification.
For User Responsibility Statement, see 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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