

Fluorocap®

All-fluoropolymer capsule for the most aggressive applications

The Fluorocap® encapsulated filter cartridge is our standard product for aggressive wet etch and clean applications. It provides good flow rates and on-stream life at an economical price. 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

- Economical
- Wide range of configurations and ratings
- 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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Fluorocap®

SPECIFICATIONS

Materials of Construction

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

Effective Filtration Area

9.8 ft² (0.9m²) per 10" filter length

Metals Extractables*

Standard: <20ppb (total)
Ultraclean: <5ppb (total)

*In a 10% HNO₃ extraction

Maximum Differential Pressure/Temperature

Forward: 80psid (5.5bar) @ 75°F (24°C)

Standard:

55psid (3.8bar) @ 167°F (75°C)
30psid (2.0bar) @ 257°F (125°C)
15psid (1.0bar) @ 300°F (150°C)

Forward HT Option:

100psid (6.8bar) @ 75°F (24°C)
75psid (5.1bar) @ 167°F (75°C)
50psid (3.4bar) @ 257°F (125°C)
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.

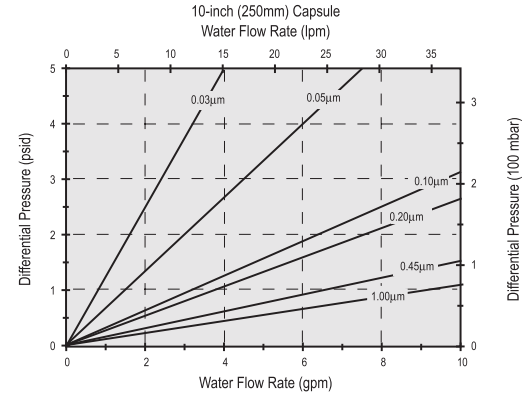
Resistivity recovery within 0.4megohm-cm
of feed after 22gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.03	0.65	3.3
0.05	1.5	8.2
0.1	3.2	18
0.2	4.1	23
0.45	6.6	36
1.0	8.9	49

*Flow rates are for in-line Fluorocaps with ¼" Parflare in-line fittings.

Flow Direction Options



Ordering Information

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

Style		Treatment		Temperature		Element Length			Connections ¹		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
F	In-Line	C	Dry Packed (Std.)	C	Fluorocap Standard (150°C Max)	0	4"	100	B	¾" Butt-weld	S	Same Side	923	0.03
		W	Ozonated UPW Flushed and Wet Packed	H	High Temperature (180°C Max)	1	10"	250	C	¾" Parflare 90°	D	180-¼ Opposite Side	925	0.05
		U	Ultraclean			2	20"	500	D	½" Parflare 90°			001	0.10
						3	30"	750	E	¾" Parflare 90°			002	0.20
						4	10"	250 (short)	F	¾" Parflare			004	0.45
									G	¾" Parflare			010	1.0
									H	½" Parflare				
									J	¾" Flarelock®				
									K	¾" Pillar 90°				
									P	¾" MNPT				

Styles		Treatment		Temperature		Element Length			Connections ¹		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
T	T-Style	C	Dry Packed (Std.)	C	Fluorocap Standard (150°C Max)	0	4"	100	F	¾" Parflare	C	Centered	923	0.03
L	L-Style (Left)	W	Ozonated UPW Flushed and Wet Packed	H	High Temperature (180°C Max)	1	10"	250	J	¾" Flarelock®			925	0.05
R	R-Style (Right)	U	Ultraclean			2	20"	500	W	¾" Pillar			001	0.10
						3	30"	750	Y	¾" SP 300			002	0.20
													004	0.45
													010	1.0

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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