

Fluorocap®-Select

High performance all-fluoropolymer capsule for the most aggressive applications

The Fluorocap®-SELECT encapsulated filter cartridge provides exceptional flow rates and on-stream life. It utilizes our unique SELECT pleating that increases filtration area and flow by over 25% compared to our standard Fluorocap®. This results in increased bath turnover and longer filter lifetime demanded by today's 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.



Contact Information

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Benefits

- Large filtration area for longer life
- High 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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Fluorocap®-Select

SPECIFICATIONS

Materials of Construction

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

Effective Filtration Area

12.2 ft² (1.1m²) per 10" (250mm)
for 0.03 & 0.05µm
11.4 ft² (1.0m²) per 10" (250mm)
for other ratings

Metals Extractables*

Standard: <20ppb (total)
Ultraplean: <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.

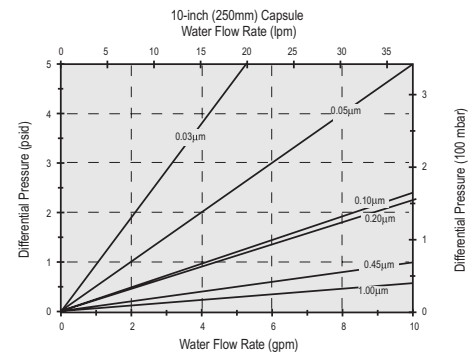
Resistivity recovery within 0.4megohm-cm
of feed after 22gal @ 1gpm.

Performance Attributes

Water flow rates, Typical*		
Micron	gpm/psid	lpm/100mbar
0.03	0.85	5
0.05	2	11
0.1	4.1	23
0.2	4.6	25
0.45	9.6	53
1.0	14.8	81

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

Flow Direction Options



Ordering Information

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

F

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Style		Treatment		Temperature		Element Length			Connections ¹		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	DESCRIPTION	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	3/4" Buttweid	S	Same Side	923	0.03
		W	Ozonated UPW Flushed and Wet Packed	H	High Temperature (180°C Max)	1	10"	250	C	3/4" Parflare 90°	D	180° Opposite Side	925	0.05
		U	Ultraplean			2	20"	500	D	1/2" Parflare 90°			001	0.10
						3	30"	750	E	3/4" Parflare 90°			002	0.20
						4	10"	250 (short)	F	3/4" Parflare			004	0.45
									G	3/4" Parflare			010	1.0
									H	1/2" Parflare				
									J	3/4" Flarelock®				
									K	3/4" Pillar 90°				
									P	3/4" MNPT				

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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	3/4" 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	3/4" Flarelock®			925	0.05
R	R-Style (Right)	U	Ultraplean						W	3/4" Pillar			001	0.10
									Y	3/4" SP300			002	0.20
													004	0.45
													010	1.0

¹ 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
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DS_ME_FCcap SELECT Rev. A

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