

# Fluorocap<sup>®</sup>-XF

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

The Fluorocap<sup>®</sup>-XF encapsulated filter cartridge uses a superior asymmetric PTFE membrane which provides unmatched flow rates and on-stream life. Customers using the capsule for viscous fluids like phosphoric acid, have reported flow rates and lifetimes more than twice that of the leading competitor. The advantages of increased bath turnover and longer lifetime improve yields while decreasing filtration costs. In addition, 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®-XF

## SPECIFICATIONS

### Materials of Construction

Asymmetric PTFE membrane  
100% Fluoropolymer construct  
All components are thermally bonded to ensure integrity and reduce extractables.

### Effective Filtration Area

11.4ft<sup>2</sup> (1.03m<sup>2</sup>) per 10" (250mm)

### Metals Extractables\*

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

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

### Maximum Differential

#### Pressure/Temperature

##### Forward:

SELECT - 80psi (5.5bar) @ 75 °F (24 °C)  
Standard - 60psi (4.1bar) @ 75 °F (24 °C)

##### Forward HT Option:

SELECT - 12.5psi (0.9bar) @ 356 °F (180 °C)  
Standard - 20psi (1.3bar) @ 356 °F (180 °C)

##### Reverse:

SELECT 50psi (3.4bar) @ 75 °F (24 °C)  
Standard 40psi (2.8bar) @ 75 °F (24 °C)

### Cleanliness (particle shedding)

Wet-packed: <2 particles/ml >0.2µm  
after 5gal @ 1gpm

Dry-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.

### Flow Direction Options

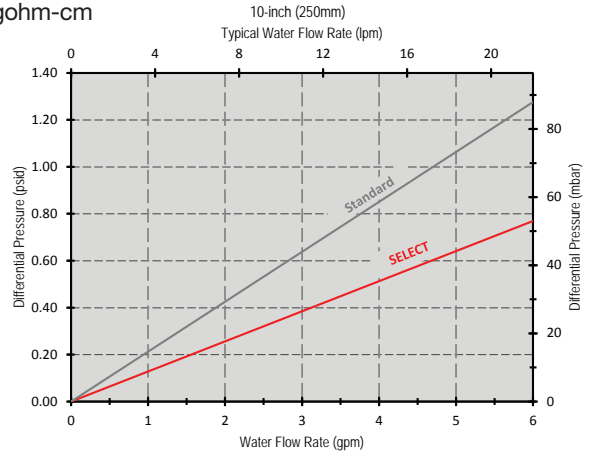


## Performance Attributes

### Water flow rates, Typical\*

Type	gpm/psid	lpm/100mbar
SELECT	7.8	43
Standard	4.7	26

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



## Ordering Information

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

Style		Treatment		Temperature		Element Length			Pleating		Connections <sup>1</sup>		Vent Alignment		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
F	In-Line	C	Dry Packed (Std.)	C	Standard up to 150°C	0	4"	100	2	SELECT	B	¼" Buttweid	S	Same Side	031	0.1 (XF)
		W	Ozonated UPW Flushed and Wet Packed	H	High temp up to 180°C	1	10"	250	1	Standard	C	⅜" Parflare 90°	D	180° Opposite Side		
		U	Ultraclean			2	20"	500			D	½" Parflare 90°				
						3	30"	750			E	¼" Parflare 90°				
						4	10"	250 (short)			F	¼" Parflare				
											G	⅜" Parflare				
											H	½" Parflare				
											J	¼" Flarelock®				
											K	¼" Pillar 90°				
											P	¼" MNPT				

Styles		Treatment		Temperature		Element Length			Pleating		Connections <sup>1</sup>		Vent Alignment <sup>4</sup>		Filter Rating	
CODE	DESCRIPTION	CODE	OPTIONS	CODE	OPTIONS	CODE	INCHES	mm	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	ALIGNMENT	CODE	MICRON
T	T-Style	C	Dry Packed (Std.)	C	Standard up to 150°C	0	4"	100	2	SELECT	W	¼" Pillar	C	Centered	031	0.1 (XF)
L	L-Style (Left)	W	Ozonated UPW Flushed and Wet Packed	H	High temp up to 180°C	1	10"	250	1	Standard	Y	¼" SP300				
R	R-Style (Right)	U	Ultraclean								F	¼" Parflare				
											J	¼" Flarelock®				

<sup>1</sup> 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](http://www.parker.com/safety)  
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