



VULCASCOT

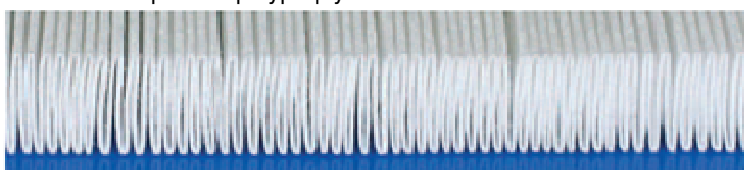
VULCOSTAR CLEAR PF XQL Filter Cartridges

Absolute Rated Filtration for Beverages, Inks, Slurries and Coatings.

With its extra-loft, extra-life depth filter configuration, the **Vulcostar Clear PF XQL** is designed for the filtration of industrial solutions containing agglomerated particles and gels or with high viscosity. Consistent absolute retention performance is achieved throughout the pleated, layered microfiber matrix. The state-of-the-art, optimized structure provides significantly higher flow rates and throughputs than cylindrical melt blown filters.



Conventional pleated polypropylene filter media



Vulcostar PF XQL filter media



Features–Benefits

- Hybrid pleated depth construction combines graded pore structure with high surface area.
- Constructed entirely of polypropylene – Compatible with a broad range of solutions and chemicals.
- Optimized pleat configuration – Provides the ideal combination of retention, flow rate and throughput.
- Excellent gel and agglomerated particle retention reduces defects.
- Available in common end cap configurations – Retrofits easily into most filter housings.

Product Specifications

Media:	Polypropylene
Core, Cage, End Caps:	Polypropylene
Gaskets/O-Rings:	Silicone, Viton, EPDM, Buna, Teflon encapsulated Viton (O-Rings only)
Micron Ratings:	0.45, 0.5, 1, 3, 5, 10, 20, 40 µm

Dimensions

Nominal lengths:	5", 9.75", 10", 20", 30", 40" (12.7, 24.8, 25.4, 50.8, 76.2, 101.6 cm)
Outside Diameter:	2.7" (6.86 cm)
Inside Diameter:	1.0" (2.54 cm)

Operating Parameters

Maximum Operating Temperature:	176°F (80°C)
Maximum Differential Pressure:	75 psid @ 70°F (5.2 bar @ 21°C) 40 psid @ 176°F (2.8 bar @ 80°C)
Maximum Reverse Differential Pressure:	35 psid @ 80°F (2.4 bar @ 27°C)
Recommended change-out pressure:	35 psid (2.4 bar)
Sterilization:	Cartridges may be autoclaved for 30 minutes at 250°F (121°C) under no end load conditions. Maybe in-line sanitized one time only in forward flow direction with 185°F (85°C) hot water – do not exceed 3 psid.





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Certifications

- **USP Class VI** - Meets USP Class VI Biological Test for Plastics.
- **FDA Listed Materials** - All Materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact.
- **European Directive for Direct Food Contact** - European Regulations No 1935/2004 and European directive 82/711/EEC: Tested for migration behavior in direct food contact. Minimal rinse required for use. Data available upon request.

Typical Applications

- Beverages
- CMP P-O-U and bulk slurries
- Adhesives
- Paints
- Coatings
- Inks

Order Information

PF XQL	5	-10	P8	S
	Retention rating	Nominal length ``	End configuration	Gasket or O ring
	0.45*	-5	P Double Open End	S Silicone
	0.50**	-9.75	P2 226/Flat Single Open End	B Buna-N
	1	-10	P3 222/Flat Single Open End	E EPDM
	3	-20	P7 226/Fin Single Open End	V Viton
	5	-30	P8 222/Fin Single Open End	T Teflon endcap
	10	-40	AM Single open end, internal O-Ring	Viton(O-Rings only)
	20		NPC Double open end, internal O-Ring	

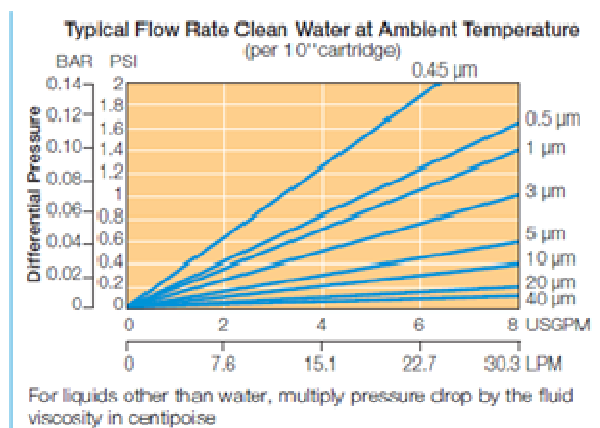
* Special CMP slurry formulation.

** Special ink formulation.

Removal efficiency

Beta Ratio Efficiency	Beta 1000 99.9%	Beta 100 99%	Beta 50 98%
0.45 micron	0.45	0.3	0.2
0.5 micron	0.65	0.45	0.3
1 micron	1.5	0.8	0.6
3 microns	3	2	1
5 microns	5	4	3
10 microns	10	8	7
20 microns	20	19	17
40 microns	40	35	25

The micron ratings shown at various efficiency and beta ratio value levels were determined through laboratory testing, and can be used as a guide for selecting cartridges and estimating their performance. Under actual field conditions, results may vary somewhat from the values shown due to the variability of filtration parameters. Testing was conducted using the single-pass test method, water at 3 gpm/10" cartridge. Contaminant's included latex beads, coarse and fine test dust. Removal efficiencies were determined using dual laser source particle counters.



All information and recommendations appearing in this bulletin concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability for his own use of such products. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Vulcascot as to the effects of such use or the results to be obtained. Vulcascot assumes no liability arising out of the use by others of such products. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

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