



VULCASCOT

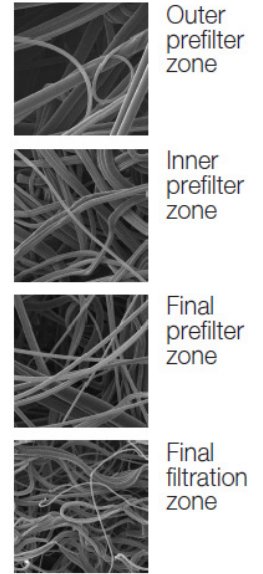
VULCOSTAR CLEAR DF SA Filter Cartridges

Absolute Rated Melt Blown Filters

Vulcostar Clear DF SA melt blown depth filters deliver 99.9% efficiency at the stated micron for the most demanding applications. By utilizing ultra fine fibers and controlled thermal bonding, the **Vulcostar Clear DF SA** series retains captured contaminant even at higher differential pressures.

Typical Applications

- Food and beverages
- Water
- Chemicals
- Pharmaceuticals
- Paint/Inks
- Microelectronics
- Plating
- Cosmetics



Features–Benefits

- Absolute retention ratings from 0.5 to 70 microns.
- Multi-zone melt blown depth filter with a graded pore structure for maximum dirt holding capacity.
- Thermally bonded fibers for high void volume and long on-stream life.
- Lot traceable filters come with certificate of conformance.
- 100% pure virgin polypropylene.
- Molded center core for higher temperature and pressure capability.
- Free of surfactants, binders and adhesives.

Product Specifications

Media:	Polypropylene
End caps/center core:	Polypropylene
Gaskets/O-rings:	Silicone, EPDM, Buna N, Santoprene, Viton and Teflon encapsulated Viton (o-rings only)
Micron ratings:	0.5, 1, 3, 5, 10, 20, 30, 50, 70

Dimensions

Nominal lengths:	4", 5", 9.75", 10", 19.5", 20", 29.25", 30", 39", 40" (10.2, 12.7, 24.8, 25.4, 49.5, 50.8, 74.3, 76.2, 99.1, 101.6 cm)
Outside diameter:	2.5" (6.35 cm),
Inside diameter:	1" in (2.54 cm)

Operating Parameters

Maximum differential pressure:	150 psid @ 68°F (10.3 bar @ 20°C) 90 psid @ 150°F (6.2 bar @ 66°C) 35 psid @ 176°F (2.4 bar @ 80°C)
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Recommended change out differential pressure: 35psid (2.4 bar)





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Steam Sterilization:

Vulcostar Clear DF SA single open end style filters may be autoclaved under no end load conditions for 30 minutes at 121°C. Filters should be cooled to normal operating temperatures prior to use.

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.

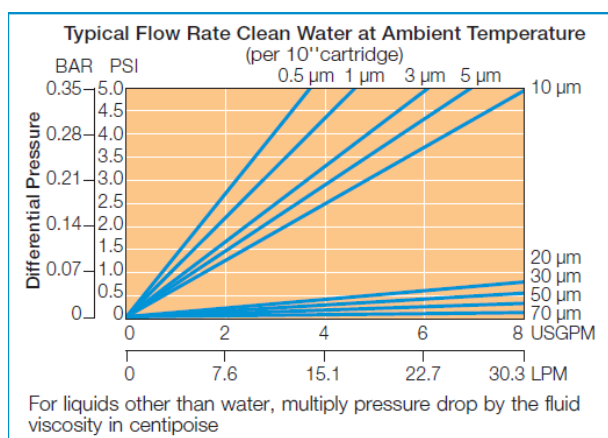
Order Information

Example DF SA	0.5	-10	P7	S
Filter type	Retention rating	Nominal length ``	End configuration	Gasket or O ring
	0.5	- 4	P Double Open End	S Silicone
	1	- 5	P2 226/Flat Single Open End	B Buna-N
	3	- 9.75	P3 222/Flat Single Open End	E EPDM
	5	- 10	P6 Self-SealSpring on one end	V Viton
	10	- 19.5	P7 226/Fin Single Open End	T Teflon endcap
	20	- 20	P8 222/Fin Single Open End	Viton (O-Rings only)
	30	- 29.25	PX Extended Core	N None
	50	- 30	N None (Cut ends)	
	70	- 39	AM Single open end, internal O-Ring	
		- 40	NPC Double open end, internal O-Ring	
			DBG Direct Bond Santoprene Gaskets	

Removal efficiency

Beta Ratio Efficiency	Beta 1000 99.9%	Beta 100 99%	Beta 10 90%
0.5 micron	0.6	0.5	0.4
1 micron	1.0	0.8	0.5
3 microns	3	2.3	1.4
5 microns	5	4.0	2.7
10 microns	10	7	4
20 microns	20	15	12
30 microns	30	20	14
50 microns	50	34	25
70 microns	70	50	39

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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