

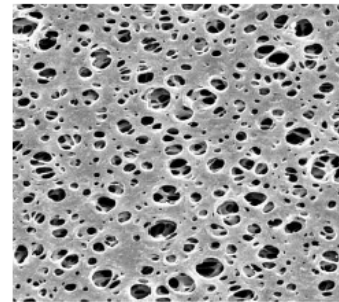


VULCASCOT

VULCOSTAR CLEAR MF WB Filter Cartridges

Pleated Polyethersulfone (PES) Membrane for Critical Filtration in Beverage Applications

Protect your beverage from spoilage. **Vulcostar Clear MF WB** cartridge filters utilize a special PES Membrane to provide consistent removal of spoilage organisms and inorganic particulate. The product offers excellent retention efficiency and extended on-stream life, making it an ideal filter for the clarification of beer, wine and bottled water. The PES membrane, available from 0,2 to 1,2 μm pore sizes is designed to meet and surpass the filtration criteria necessary to maintain product quality and characteristics. Produced in an ISO Class 7 cleanroom, the cartridges are integrity tested during production to assure performance and consistency.



Typical Applications

- White Wine
- Red Wine
- Sparkling Wine
- Wine / Malt Coolers
- Champagne
- Distilled Spirits
- Bottled Water
- Beer

Features–Benefits

- Manufactured in an ISO Class 7 Cleanroom environment
- 100% flushed with ultrapure DI water and integrity tested
- Low adsorption of protein, color and flavor components
- Steamable / Sanitizable for cleaning and reuse
- High log reduction values for spoilage organisms
- PES membrane provides high capacity contaminant loading
- Complete qualification guide available
- Quick wet treatment available

Product Specifications

Media:	Asymmetric Polyethersulfone
Inner core, end caps, cage:	Polypropylene
Support layers:	Spunbonded Polypropylene
Gaskets/O-rings:	Buna N, EPDM, Silicone, Viton, Teflon encapsulated Viton (O-rings only)
Micron ratings:	0.2, 0.45, 0.65, 1.2 μm

Dimensions

Nominal lengths:	9.75", 10", 20", 30", 40" (24.7, 25.4, 50.8, 76.2, 101.6 cm)
Outside diameter:	2.7" (6.9 cm)
Inside diameter:	1.0" in (2.54 cm)
Surface area:	0.7 m ² per 10" element



VULCASCOT Getränkeindustriebedarf HandelsgmbH & Co. KG A-1190 Wien, Muthgasse 25

Tel. +43/(0)1/369 44 77-0 Fax +43/(0)1/369 44 77-60 e-mail: info@vulcascot.at <http://www.vulcascot.at>
Firmenbuch-Nr. 211982p Handelsgericht Wien ARA-Lizenz-Nr. 976 UID-Nr. ATU52296000
BAWAG-PSK / BLZ 14000 / Konto-Nr. 01610774047 / Swift: BAWAATWW / IBAN: AT361400001610774047
ERSTE BANK / BLZ 20111 / Konto-Nr. 30001074789 / Swift: GIBAATWW / IBAN: AT642011130001074789
Es gelten ausschliesslich unsere Allgemeinen Geschäftsbedingungen.



VULCASCOT

Operating Parameters

Maximum sustained operating temperature:	176°F (80°C) at 20 psid (1,38 bar)
Maximum differential pressure:	80 psid @ 70°F (5.5 bar @ 21°C) 40 psid @ 176°F (2.8 bar @ 80°C)
Maximum reverse differential pressure:	40 psid @ 70°F (2,8 bar @ 21°C)
Recommended change out differential pressure:	35 psid (2.4 bar)

Certifications

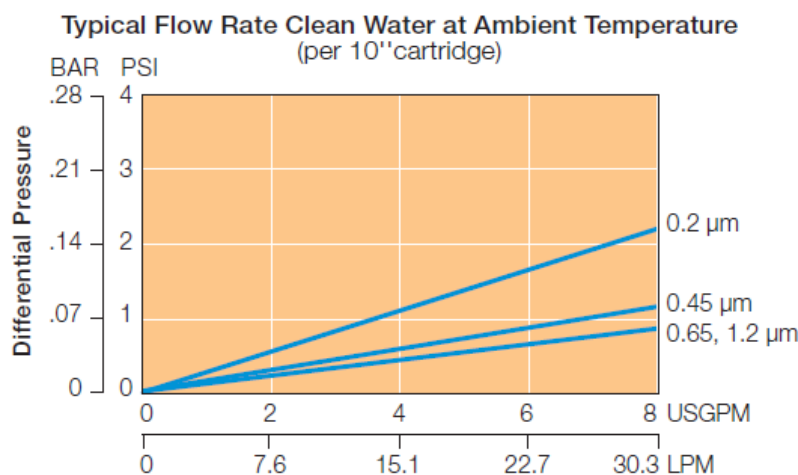
- **USP Class VI** - Meets USP Class VI Biological Test for Plastics
- **FDA Listed Materials** - All Materials comply with FDA Title 21 of the Code of Federal Regulations Sections 174.5, and 177.1520, as applicable for food and beverage contact
- **European Directive for Direct Food Contact** - European 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
MF WB

Filter type	Retention rating	Nominal length ``	End configuration	Gasket or O ring	
	0,2	- 5	P Double Open End	S Silicone	Quickwet treatment
	0,45	- 9,75	P2 226/Flat Single Open End	B Buna-N	
	0,65	- 10	P3 222/Flat Single Open End	E EPDM	
	1,2	- 20	P7 226/Fin Single Open End	V Viton	
		- 30	P8 222/Fin Single Open End	T Teflon endcap. Viton (O-Rings only)	
		- 40	AM Single open end, internal O-Ring		

Vulcostar Clear MF WB– Performace Specifications



For liquids other than water, multiply pressure drop by the fluid viscosity in centipoise





VULCASCOT

- Hot DI Water
Filter Cartridge will withstand temperatures of 185°F (85°C) for up to 30 consecutive minutes
- Cleaning / Sanitization
Compatible with most common chemical cleaning, sanitizing and sterilizing agents with pH range from 1-14.
- Steam / Autoclave
Cartridges may be steamed or autoclaved for at least 50 thirty minute cycles @ 275°F (135°C).
- Typical Bacterial Retention Performance

0.20 µm	LRV for Pseudomonas aeruginosa ≥ 11
0.45 µm	LRV for Lactobacillus brevis ≥ 7,6
0.45 µm	LRV for Oenococcus oeni ≥ 10
0.45 µm	LRV for S. cerevisiae ≥ 11
0.65 µm	LRV for S. cerevisiae ≥ 8,7
1.20 µm	LRV for S. cerevisiae ≥ 8

- Integrity Test Specifications
Minimum Bubble Point values and maximum Diffusive Air Flow (per 10" cartridge) values for filters wet with water:

Pore Size	Bubble Point	Diffusive Air Flow
0,20	≥ 2,1 bar	≤ 35 cc/min @ 1,7 bar
0,45	≥ 1,4 bar	≤ 35 cc/min @ 1,1 bar
0,65	≥ 1,2 bar	≤ 35 cc/min @ 1,0 bar
1,20	≥ 0,9 bar	≤ 35 cc/min @ 0,8 bar

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.

Version 03/2014



VULCASCOT Getränkeindustriebedarf HandelsgmbH & Co. KG A-1190 Wien, Muthgasse 25

Tel. +43/(0)1/369 44 77-0 Fax +43/(0)1/369 44 77-60 e-mail: info@vulcascot.at <http://www.vulcascot.at>
Firmenbuch-Nr. 211982p Handelsgericht Wien ARA-Lizenz-Nr. 976 UID-Nr. ATU52296000
BAWAG-PSK / BLZ 14000 / Konto-Nr. 01610774047 / Swift: BAWAATWW / IBAN: AT361400001610774047
ERSTE BANK / BLZ 20111 / Konto-Nr. 30001074789 / Swift: GIBAATWW / IBAN: AT642011130001074789
Es gelten ausschliesslich unsere Allgemeinen Geschäftsbedingungen.