Food & Beverage Data Sheet



FBDSMOCWENa

MICROsorp OC Filter Cartridges

A regeneration prefilter or for highly efficient protection of downstream membrane filters

MICROsorp OC filter cartridges are regenerable prefilters designed with a tight pore structure to maximize the service life of downstream membrane filters in bottled water and wine applications.

Description

The MICROsorp OC has a pleated filter pack comprising a resin-bonded liquid crystal fiber filter medium with cellulose substrate. The dense fiber structure provides excellent protection of downstream membrane filters while the robust media enables repeated regenerations to maximize service life.

The single open ended (SOE) configuration can be hot water sanitized or steam sterilized *in situ* for hygienic and flexible operation.

Features	Benefits	
Media	 Liquid crystal polymer media Wide range of chemical compatibility Improved protection of the final membrane filters Low operating costs Efficient colloid reduction 	
Fixed pore structure	 Maintains performance with pulsed flow conditions Offers reverse flushing/ regeneration to extend service life 	
Enclosed assembly	 Hygienic operation Low hold up volume Negligible product losses 	
Filter element	 Multiple adaptor options for installation into sanitary housings Repeated sanitization/sterilization capability for economical operation Individually serialized for full traceability 	

Quality

- · Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2015 certified Quality Management System



MICROsorp OC Filter Cartridges

Food Contact Compliance

Please refer to the Pall website www.pall.com/foodandbev for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Materials of Construction

Component	Description	
Filter medium	Resin bonded liquid crystal fibers on a cellulose substrate	
Support / Drainage, Side Seal Clip, Core, End Cap and Fin End, Cage	Polypropylene	
Adaptor	Polypropylene with internal stainless steel reinforcing ring	
D-ring seal	Silicone elastomer (S) or Ethylene Propylene Rubber (E)	

Technical Information

Liquid Removal Rating¹

Liquid removal rating: 0.8 micron @ 99.98% Efficiency (β5000)

Operating Characteristics in Compatible Fluids²

Maximum Differential Pressure	Operating Temperature		
5.5 bard (80 psid) (forward)	50 °C (122 °F)		
4.1 bard (60 psid) (forward)	80 °C (176 °F)		
500 mbard (7 psid) (reverse)	20 °C (68 °F)		

Sterilization and Sanitization

Media	Temperature	Cumulative Time ³
Steam	121 °C (250 °F)	25 hours
Hot water	90 °C (194 °F)	50 hours
Peroxyacetic acid based sanitizer (300 ppm total peroxides)	20 °C (68 °F)	50 hours

Typical Flow Rates⁴





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Ordering Information

This information is a guide to the part number structure and possible options. For availability of specific options and housing details, please contact Pall.

Cartridge Part Number: 469 A080 W



Table 1: Adaptor

Code	Description		
02	SOE – single open end with flat closed end, 2 locking tabs and external 226 o-rings		
03	SOE – single open end with flat closed end and external 222 O-rings		
07	SOE – single open end with fin end, 2 locking tabs and external 226 O-rings		
28 or 41	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings		

Table 2: Nominal Length

Table 3: O-Ring Seal Material

Code	Description	Code	Description
1	254 mm (10")	S	Silicone Elastomer
2	508 mm (20")	E	Ethylene Propylene Rubber
3	762 mm (30")		
4	1016 mm (40")		

¹ The MICROsorp OC Filter Cartridge liquid retention rating is based on modified OSU-F2 test.

- ² Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.
- ³ Measured under laboratory test conditions. The actual cumulative time depends on the process conditions. Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use. Contact Pall for recommended procedures.
- ⁴ Typical initial clean media ΔP 254 mm (10") cartridge for water at 20 °C (68 °F); viscosity 1 centipoise. For 508 mm, 762 mm and 1016 mm configurations divide the differential pressure by 2, 3, and 4 respectively.

Visit us on the Web at www.pall.com/foodandbev

Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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