

MICROsorp OC filter cartridges are pre-filters designed to protect Fluorodyne® II JSDW grade filters in bottled water applications.

Description

The **MICROsorp OC** filter was developed to provide reliable protection of sterilizing grade filters in bottled water applications.

The MICROsorp OC has a pleated filter pack comprising a resin-bonded liquid crystal fiber filter medium with cellulose substrate. The single open ended (SOE) configuration is designed to fit into sanitary housings to ensure effective protection of the downstream membrane filter.

The **MICROsorp OC** filter is suitable for exposure to *in situ* steam sanitization cycles for longer service life.

| Features | Benefits |
|----------------------|---|
| Media | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Maintains performance with pulsed flow conditions |
| Enclosed assembly | <ul style="list-style-type: none"> • Hygienic operation • Low hold up volume • Negligible product losses |
| Filter Element | <ul style="list-style-type: none"> • 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 9001:2000 certified Quality Management System

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.

MICROsorp OC Filter Cartridges For Bottled Water Pre-filtration



MICROsorp OC Filter Cartridges

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 |
| O-ring seal | Silicone elastomer (S) |

Technical Information

Liquid Removal Rating¹

Liquid removal rating: 0.8 micron @ 99.98% Efficiency (β 5000)

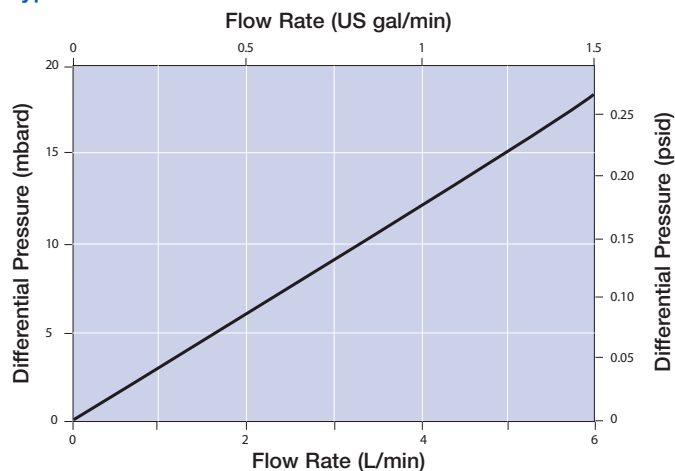
Operating Characteristics in Compatible Fluids²

| 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



Ordering Information

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Cartridge Part Number: 469 A080 W SP

Table 1 Table 2

Table 1: Adaptor

| Code | Description |
|------|---|
| 3 | SOE – single open end with flat closed end and external 222 O-rings |
| 7 | SOE – single open end with fin end, 2 locking tabs and external 226 O-rings |
| 41 | SOE – single open end with fin end, 3 locking tabs and external 222 O-rings |

Table 2: Nominal Length

| Code | Description |
|------|---------------|
| 1 | 254 mm (10") |
| 2 | 508 mm (20") |
| 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 Δ P 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.



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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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