

Oenopure™ II Filter Cartridges

Description

The **Oenopure** II cartridge is Pall Corporation's most recent and advanced solution for membrane filtration of wine. The materials of cartridge construction ensure that the level of organoleptic and colloidal interference is negligible. Additionally the media is configured with a "laid over pleat" configuration for increased mechanical strength, filter area and exposure to repeated hot water and steam sanitization cycles for longer service life.

The AB style cartridges are available in single open ended (SOE) configurations to fit in sanitary housings to ensure effective microbial removal and assembly integrity.

Media

- Hydrophilic, easy to wet and integrity test
- Fixed pores, non-shedding, resin and surfactant free
- Low binding for minimal interaction with wine
- Broad range of chemical compatibility

Cartridge

- Low hold-up volume for minimum product losses
- Laid over pleat construction for increased mechanical strength
- High surface area for long service life
- Individually serialized for traceability

Sanitization/Sterilization

- Hot water sanitizable
- Steamable *in-situ*

Manufacturing

- ISO 9001:2000 certified Quality Management System
- Cartridges produced in a controlled environment

Specifications

Materials of Construction

- Membrane: Hydrophilic polyethersulfone
- Support and drainage layers: polypropylene
- End Caps, bomb fin and core: polypropylene
- Cage: TiO₂ filled polypropylene
- Adaptor: polypropylene with a stainless steel reinforcing ring
- O-rings: Silicone (H4) or Ethylene Propylene (J)¹



Typical Titer Reduction

Removal Rating	Test Organism	Titer Reduction
0.45 µm	<i>Oenococcus oeni</i>	>10 ⁷
0.65 µm	<i>Saccharomyces cerevisiae</i>	>10 ⁹

Dimensions (nominal)

- Lengths: 254 mm (10")
508 mm (20")
762 mm (30")
1016 mm (40")

Food Contact Compliance

Please contact Pall Corporation for product applicability to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Operating conditions²

Maximum differential pressure (forward):

- 5.5 bar (80 psi) at up to 40 °C (104 °F)
- 4 bar (58 psi) at up to 80 °C (176 °F)

Pressure Drop vs Liquid Flow Rate⁵

Typical LB: 25 liters per minute @ 100 mbar
6.6 US gpm @ 1.45 psi

Typical LK: 25 liters per minute @ 90 mbar
6.6 US gpm @ 1.31 psi

Sanitization / Sterilization

Media	Temperature	Maximum Cumulative Time ³	Number of Cycles
Steam	125 °C (257 °F)	50 hours	150
Steam	110 °C (230 °F)	80 hours	160
Hot Water	85 °C (185 °F)	75 hours	150
Total Peroxides 320ppm ⁴	20 °C (65 °F)	2000 hours	

¹ The seal materials employed meet FDA requirements for food contact use as detailed in 21 CFR Section 177.2600.

² With compatible fluids that do not soften, swell or adversely affect the product or materials of construction.

³ Measured under test condition. The actual cumulative time depends on process conditions.

⁴ Peracetic Acid (PAA) Concentration is 0.005%. For products with different concentrations, please contact Pall.

⁵ Typical initial clean media differential pressure (DP) per 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. For assistance in filter assembly sizing and housing selection, contact your local Pall Distributor or Pall Corporation directly.

Ordering Information

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

Example Part Number : **AB1LB7WH4**

See bold reference codes in tables

Part Number:

AB    **W**  **4**

Table 1: Length Options

Code	Nominal Length
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2: Media Grade Options

Code	Grade
LB	0.45 µm
LK	0.65 µm

Table 3: Adaptor Options

Code	Adaptor
3	Flat end cap, plug-in style with double 222 O-rings
7	Bomb fin with bayonet lock and double 226 O-rings
8	Bomb fin, plug-in style with double 222 O-rings
28	Bomb fin with bayonet lock and double 222 O-rings

Table 4: O-ring Options¹

Code	O-ring material
H4	Silicone
J	Ethylene Propylene



Pall Food and Beverage

25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

Portsmouth - UK
+44 (0)23 9230 3303 telephone
+44 (0)23 9230 2507 fax

Visit us on the Web at www.pall.com

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/corporate_contact.asp

Please contact Pall Corporation for product applicability to specific National legislation and/or Regional Regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

© Copyright 2008, Pall Corporation. Pall, , and Oenopure are trademarks of Pall Corporation. ® Indicates a trademark registered in the USA. *Filtration. Separation. Solution.SM* is a service mark of Pall Corporation.