

## Fuente II Filter Cartridges For Final Water Filtration

**Fuente II** filter cartridges are a unique combination of Ultipleat® filter construction and optimized built-in pre-filtration to give longer filter life and lower filtration costs.

### Description

The **Fuente II** filter was developed as a final filter for bottled water. It provides a reliably stable product when applied directly before bottling.

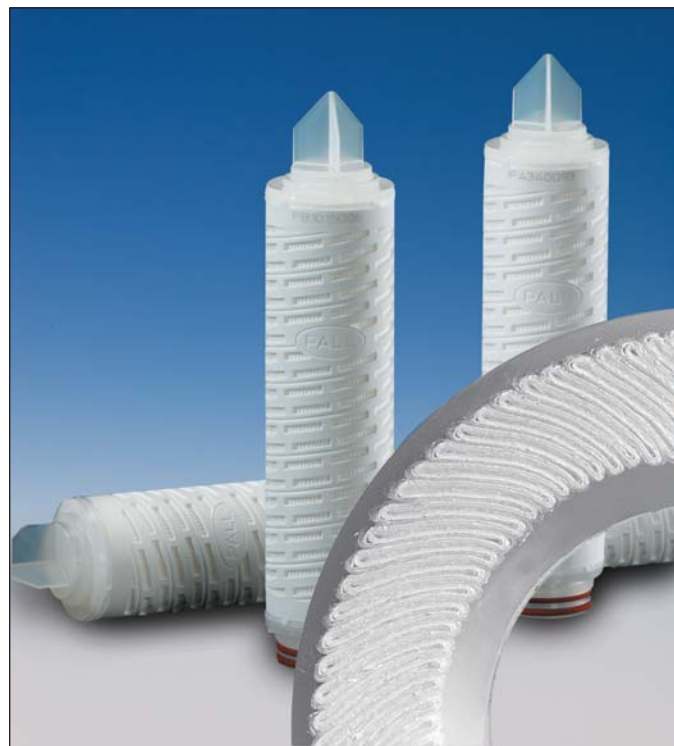
The cartridge is constructed from two layers of hydrophilic Supor® polyethersulfone (PES) membrane. The single open ended (SOE) configuration is designed to fit into sanitary housings to ensure effective microbial stabilization and assembly integrity.

**Fuente II** filter cartridges are suitable for exposure to repeated cold chemical, hot water and *in situ* steam sanitization cycles for longer service life.

Features	Benefits
Cartridges resistant to numerous sanitization cycles	<ul style="list-style-type: none"> <li>• Process reliability</li> <li>• Economical operation</li> <li>• Consistent filtrate quality</li> </ul>
Hydrophilic PES media	<ul style="list-style-type: none"> <li>• Microbial stabilization of bottled water</li> <li>• Easy to wet and integrity test</li> </ul>
Ultipleat filter construction and built-in pre-filtration layer	<ul style="list-style-type: none"> <li>• High flow rate per module</li> <li>• Added colloidal resistance</li> <li>• Longer filter life</li> <li>• Lower operating costs</li> </ul>
Individually serialized modules	<ul style="list-style-type: none"> <li>• Full traceability</li> </ul>
Multiple adaptor options	<ul style="list-style-type: none"> <li>• Easy installation into sanitary housings</li> </ul>

### Removal Rating

A technical performance report is available for **Fuente II** filter cartridges upon request.



Fuente II Filter Cartridges

### Materials of Construction

Filter Media	PES
Support and Drainage	Polypropylene
Core, Cage, End Cap and Fin End	Polypropylene
Adaptor	Polypropylene with an internal stainless steel reinforcing ring
O-ring Seal	Ethylene propylene rubber or Silicone elastomer

### Quality

- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

### Food Contact Compliance

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

## Technical Information

### Operating Characteristics in Compatible Fluids<sup>1</sup>

Maximum Differential Pressure	Operating Temperature
5.0 bard (72.5 psig) (forward pressure)	40 °C (104 °F)
1.0 bard (14.5 psig) (reverse pressure)	40 °C (104 °F)
1.0 bard (14.5 psig) (forward pressure)	<i>in-situ</i> steam sterilization

<sup>1</sup> Compatible fluids are defined as those which do not swell, soften or attack any of the filter components.

### Sanitization, Sterilization and Cleaning\*

Media	Temperature	Cumulative Time/Cycles <sup>2</sup>
Steam	125 °C (257 °F)	40 hours / 120 x 20 minute cycles
Hot water	85 °C (185 °F)	100 hours / 300 x 20 minute cycles
Peracetic acid based products (325 ppm of PAA and 1275 ppm of hydrogen peroxide)	Ambient	400 hours
*Nitric acid (0.5%)	Ambient	100 hours
*Phosphoric acid (0.5%)	Ambient	100 hours

<sup>2</sup> Measured under laboratory test conditions. The actual cumulative time depends on the process conditions. For applications requiring Sterilization or Sanitization 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.

### Pressure Drop vs. Liquid Flow Rate<sup>3</sup>

15 liters per minute @ 100 mbar  
2.74 US gpm @ 1 psi

Typical initial clean media differential pressure ( $\Delta P$ ) per 250 mm (10") cartridge for water at 20 °C (68 °F); viscosity 1 centipoise. For 508, 762 mm and 1016 mm configurations divide the differential pressure by 2, 3, and 4 respectively.

## Ordering Information

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

Part Number: AB  FFN  W   
Table 1      Table 2      Table 3

**Table 1: Nominal Length**

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

**Table 2: 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
8	SOE – single open end with fin closure end and external 222 O-rings on open end
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

**Table 3: O-ring Seal Material**

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber



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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.

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](http://www.pall.com) to verify that this information remains valid.

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