

## Profile® Star Filter Cartridges for gel and particle removal

Profile Star filter cartridges are pleated depth filters designed for high particle removal efficiency in food and beverage applications.

### Description

The Profile Star filter cartridge combines the advantages of a continuously graded pore structure and a unique pleated geometry to provide an increase in effective filtration area and service life.

The pressure drop and flow capability is comparable to competitive pleated polypropylene filters whilst also providing excellent removal of soft contaminants (e.g. gels) because of the depth of the medium.

### Features and Benefits

Features	Benefits
Fixed fiber matrix	<ul style="list-style-type: none"> <li>• Consistent filtrate quality</li> <li>• Highly stable structure</li> <li>• Process reliability</li> </ul>
Unique pleated medium with no sideseal	<ul style="list-style-type: none"> <li>• Lower capital and installation costs</li> <li>• Smaller assemblies</li> <li>• Lower operating costs</li> <li>• Longer service life</li> <li>• Regenerable</li> </ul>
Polypropylene filter construction with no adhesives or surfactants	<ul style="list-style-type: none"> <li>• Increased surface area and mechanical strength</li> </ul>

### Quality

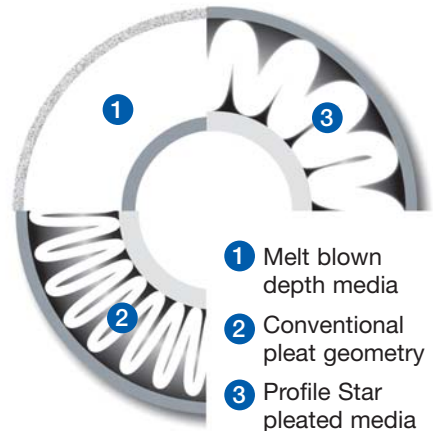
- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

### 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.



Profile Star Filter Cartridges



### Materials of Construction

Filter Medium	Pleated Polypropylene
Cage, Core, Fin End and End Cap	Polypropylene
Adaptor	Polypropylene with a stainless steel reinforcing ring
O-Ring Seal	Ethylene Propylene Rubber or Silicone Elastomer

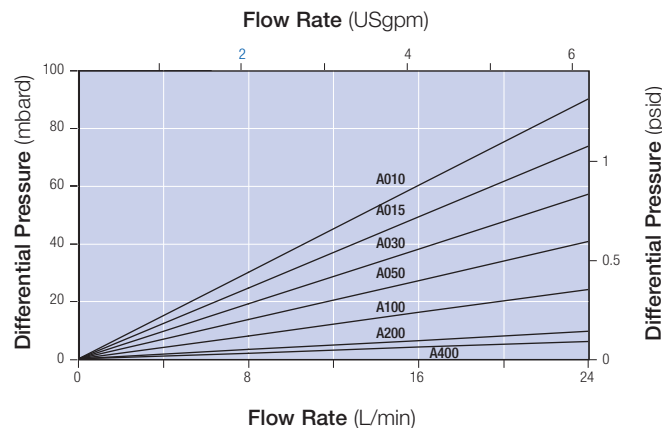
## Technical Information

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

Maximum Differential Pressure	Operating Temperature
5.0 bard (72 psid) (forward)	<50 °C (122 °F)
3.4 bard (50 psid) (forward)	<80 °C (176 °F)
0.3 bard (5 psid) (forward)	<125 °C (257 °F)

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

### Typical Flow Rates<sup>2</sup>



<sup>2</sup>Typical initial clean media  $\Delta P$  254 mm (10") element, water at 20 °C, viscosity 1 cP. For assistance with filter assembly, sizing and housing selection, contact your local Pall representative.

### Liquid Removal Rating

Grade	Rating ( $\mu\text{m}$ ) at 99.98% Efficiency ( $\beta$ -5000) <sup>3</sup>	Rating ( $\mu\text{m}$ ) at 99% Efficiency ( $\beta$ -100)
A010	*1	–
A015	*1.5	–
A030	3	*1.6
A050	5	3
A100	10	7.5
A200	20	16
A400	*40	–

Profile Star filter cartridge liquid retention ratings are based on modified OSU-F2 test.

<sup>3</sup> The A010 grade has a 99.8% removal efficiency.

\*extrapolated value.

### Sterilization and Sanitization

Method	Temperature	Cumulative Time
<i>in situ</i> Steam Sterilization	125 °C (257 °F)	10 hours
<i>in situ</i> Hot Water Sanitization	80 °C (176 °F)	

For applications requiring sterilization or sanitization, Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling.

### 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.

Element Part Number: AB W

Table 1: Nominal Length

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

Table 2: Removal Rating\*

Code
A010
A015
A030
A050
A100
A200
A400

\*Liquid removal rating specifics are detailed in the Liquid Removal Rating Table

Table 3: 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 end and external 222 O-rings
28	SOE - single open end with fin end, 3 locking tabs and external 222 O-rings

(Code 3, 7 and 8 may be available in selected grades, confirm code availability with your Pall representative.)

Table 4: 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.

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