

Profile® Star Filter Cartridges For Particle and Gel 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"> • Consistent filtrate quality • Highly stable structure • Process reliability
Unique pleated medium with no sideseal	<ul style="list-style-type: none"> • Lower capital and installation costs • Smaller assemblies • Lower operating costs • Longer service life • Regenerable
Polypropylene filter construction with no adhesives or surfactants	<ul style="list-style-type: none"> • Increased surface area and mechanical strength

Quality

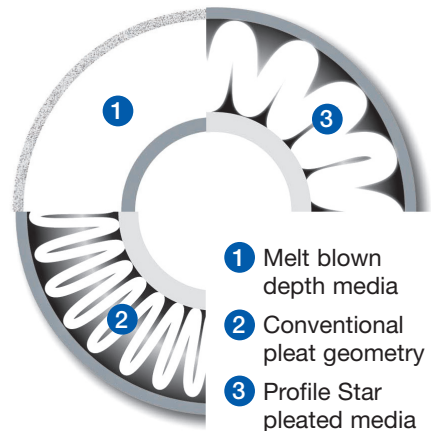
- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

Food Contact Compliance

Please refer to the Pall website www.pall.com/foodandbev 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	Polypropylene
Cage, Core, Fin End and End Cap	Polypropylene
Adaptor	Polypropylene with stainless steel reinforcing ring
O-Ring Seal	Silicone Elastomer Ethylene Propylene Rubber

Technical Information

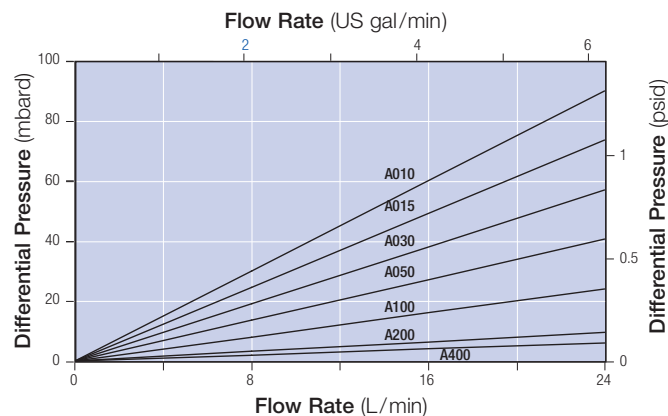
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

Operating Characteristics in Compatible Fluids¹

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)

¹ Fluids which do not swell, soften or adversely affect any of the filter components

Typical Flow Rates²



² Typical initial clean delta p per 254 mm (10 inch) cartridge, water at 20 °C (68 °F). For liquids with viscosity greater than 1 cP, multiply the delta p by the viscosity.

Sterilization and Sanitization³

Method	Temperature	Cumulative Time
Steam Sterilization	125 °C (257 °F)	10 hours
Hot Water Sanitization	80 °C (176 °F)	

³ For applications requiring *in situ* 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.

Ordering Information

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

Part Number: AB W
Table 1 Table 2 Table 3 Table 4

Example Part Number: **AB3A0307WH4**

See bold reference codes in tables.

Table 1: Nominal Length

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

Table 4: O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

Table 2: Removal Rating⁴

Grade	Rating (µm) at 99.98% Efficiency (β-5000) ⁵	Rating (µm) at 99% Efficiency (β-100)
A010	*1	—
A015	*1.5	—
A030	3	*1.6
A050	5	3
A100	10	7.5
A200	20	16
A400	*40	—

⁴ Profile Star filter cartridge liquid retention ratings are based on a modified OSU-F2 single pass test.

⁵ The A010 grade has a 99.8% removal efficiency. Asterisks indicate extrapolated values.

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



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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 to verify that this information remains valid.

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