

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

Fixed fiber matrix

Unique pleated medium with no sideseal

Polypropylene filter construction with no adhesives or surfactants

Benefits

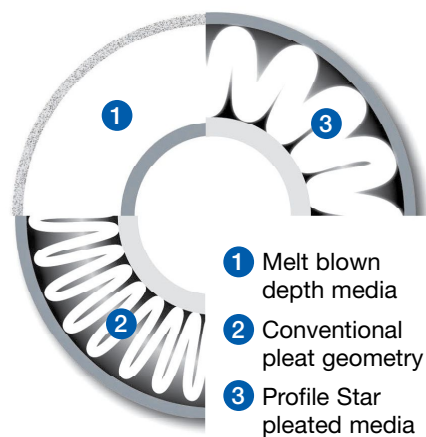
- Consistent filtrate quality
- Highly stable structure
- Process reliability

- Lower capital and installation costs
- Smaller assemblies
- Lower operating costs
- Longer service life
- Regenerable

- Increased surface area and mechanical strength



Profile Star Filter Cartridges



- 1 Melt blown depth media
- 2 Conventional pleat geometry
- 3 Profile Star pleated media

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.

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

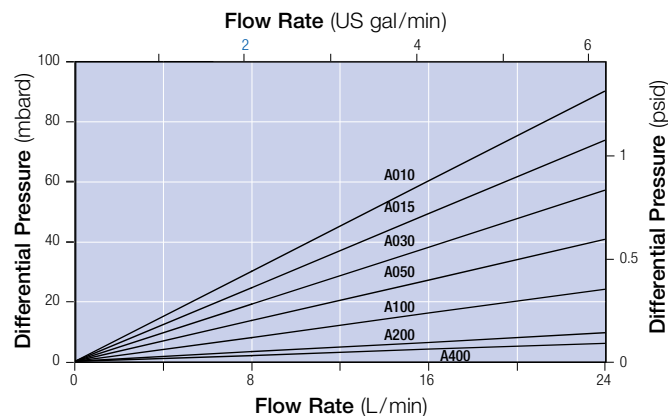
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

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.

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