

## Profile® UP Filter Cartridges For Particle Removal

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

### Description

The filter cartridge combines the advantages of a continuously graded pore structure and unique laid-over pleat geometry to provide an increase in effective filtration area and service life.

Fewer cartridges are required for a given flow rate than for a traditional depth style cartridge. Thus, filter vessels are correspondingly smaller, resulting in lower capital and installation costs, as well as reduced operating costs.

### Features and Benefits

Features	Benefits
Fixed fiber matrix with no adhesives or surfactants	<ul style="list-style-type: none"> <li>• Consistent filtrate quality</li> <li>• Highly stable structure</li> <li>• Process reliability</li> </ul>
Media with laid-over pleat geometry	<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> </ul>
Polypropylene filter construction	<ul style="list-style-type: none"> <li>• Broad chemical compatibility</li> </ul>

### Quality

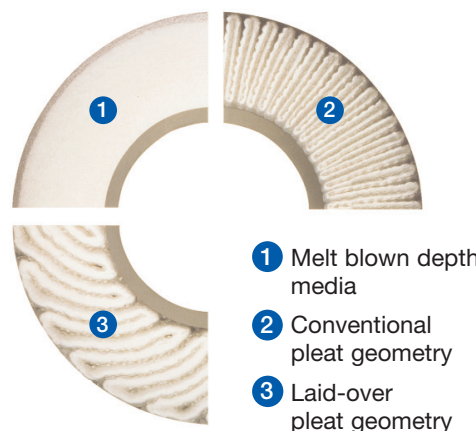
- Cartridges produced in a controlled environment
- Manufactured according to ISO 9001:2008 certified Quality Management System

### Food Contact Compliance

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



Profile UP Filter Cartridges



### Materials of Construction

Component	Description
Filter Medium	Polypropylene
Support and Drainage	Polypropylene
Helical Wrap	Polypropylene non woven fabric
Core, Fin End and End Cap	Polypropylene
<b>AB Style Cartridges only</b> Adaptor	Polypropylene with stainless steel reinforcing ring
O-ring Seal	Silicone Elastomer Ethylene Propylene Rubber
<b>PUY Style Cartridges only</b> Gasket	Ethylene Propylene Rubber

## Technical Information

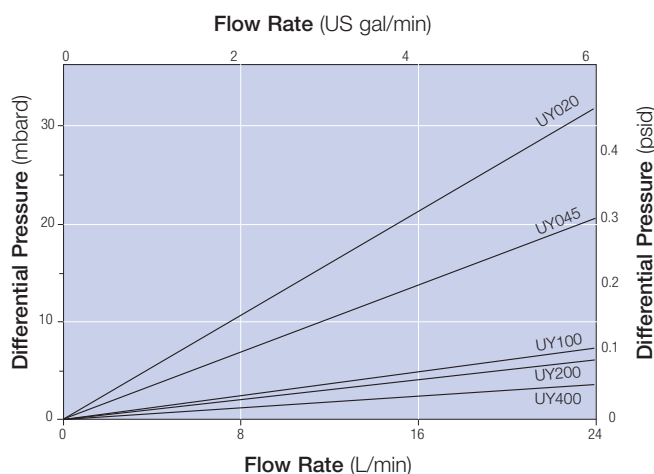
The technical information provided is based on controlled laboratory tests done on typical production filters at the conditions described, unless otherwise indicated. Actual operating conditions may affect the filter's performance.

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

Maximum Differential Pressure	Operating Temperature
4.1 bard (60 psid) (forward)	<30 °C (86 °F)
3.4 bard (50 psid) (forward)	<50 °C (122 °F)
2 bard (29 psid) (forward)	<70 °C (158 °F)
1 bard (14.5 psid) (forward)	<80 °C (176 °F)
1 bard (14.5 psid) (reverse)	<20 °C (68 °F)

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

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



<sup>2</sup> 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 Sanitization<sup>3</sup>

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

<sup>3</sup> 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**   
**PUY**   **W J**

Example Part Number: **AB2UY0457WH4**  
 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 2: Removal Rating<sup>4</sup>**

Grade	Rating (µm) at 99.98% Efficiency (β-5000) <sup>5</sup>	Rating (µm) at 90% Efficiency (β-10)
UY020	2.0	<1.0
<b>UY045</b>	4.5	1.2
UY100	10	4.3
UY200	20	11
UY400	40	18

<sup>4</sup> Profile UP filter cartridge liquid retention ratings are based on a modified OSU-F2 single pass test.

<sup>5</sup> The UY020 grade has a 99% removal efficiency (β-100).

**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

**Table 4: O-ring Seal Material**

Code	Description
<b>H4</b>	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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