

# SUPAPORE PPG

## Pleated Depth Filter Cartridge



SupaPore PPG Microfiltration cartridges have been designed as effective prefiltration for membrane and as final polishing filters for many liquid processing applications. Manufactured using 100% polypropylene media, drainage layers and hardware, the SupaPore PPG pleated depth cartridge offers excellent chemical compatibility across a wide range of liquids processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in many manufacturing & water treatment processes.



The construction utilises thermal welding techniques to seal all the components therefore eliminating adhesives and extractables and optimising cartridge integrity.

SupaPore PPG cartridges use pleated depth media and are available in standard diameter and Junior sizes with micron ratings from 0.2µm to 40µm in the full range of industry standard lengths and end cap styles.

### Product Features

- 100% polypropylene construction
- Absolute removal ratings Beta ratio 5000
- Extended life version available
- No fibre migration
- Modular construction
- Standard and Junior configurations
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene only.)



Amazon Filters manufactures a comprehensive range of filter housings for SupaPore cartridges including the industrial **50** and **60 Series** and the **70 Series** for hygienic applications. Please consult our Sales Office for further details on the full range.

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- Pleated depth media for maximum dirt holding capacity
- High surface area giving high flow rates and low initial pressure losses
- PP - Wide chemical compatibility using 100% polypropylene, meets FDA requirements
- Range of Absolute ratings from 0.2 to 40µm
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide Available
- All individual packing bags are anti static

## Industries and Applications

<b>Food and Beverage</b>	• Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification
<b>Pharmaceuticals</b>	• Membrane pre-filtration, Ophthalmics, Oral medications
<b>Fine Chemicals</b>	• Polymers, Photoresists, Acids, Bases, Solvents
<b>Electronics</b>	• High purity water, Photo resists, Acids, Etch solutions
<b>Cosmetics</b>	• Alcohol, Creams, Lotions, Essential oils, Mouthwashes
<b>Metal Finishing</b>	• Plating solutions, Wash solutions, Paints, Resins, Varnishes
<b>Water Treatment</b>	• Potable water, Resin trap, Pre/Post UV, Membrane protection

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# SupaPore PPG Technical Data

## Dimensions

Outside Diameter:	Standard 10"	Junior 5"
	68.5mm	55.5mm
Typical Surface Area:	0.4 - 0.62m <sup>2</sup>	0.15 - 0.24m <sup>2</sup>

## Sterilisation and Sanitisation\*1

Steam or Autoclave	121°C for 30 mins (40 cycles)
	135°C for 30 mins (25 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

\*Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.

## Maximum Operating Conditions

Temperature: 80°C

Recommended change-out differential pressure: 2.5 Bar

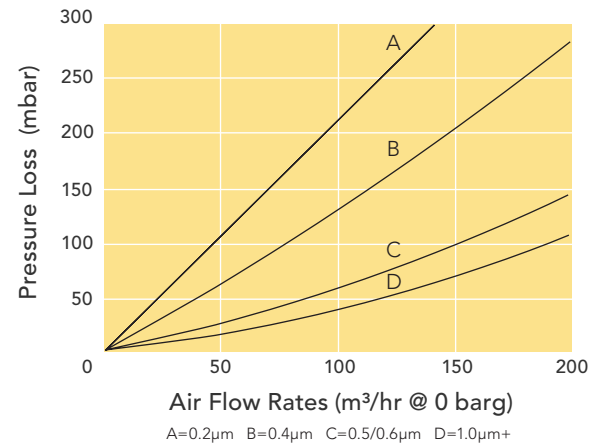
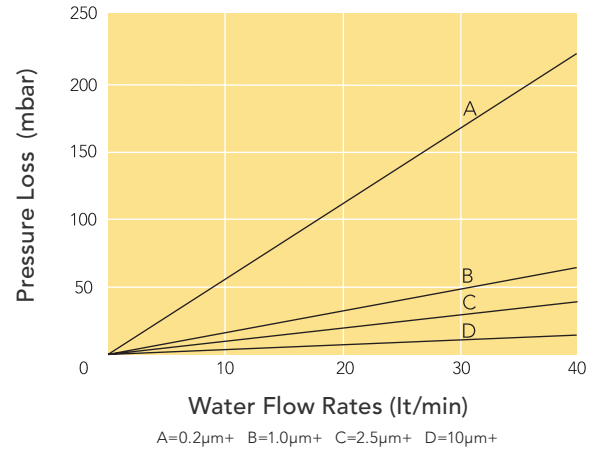
Maximum ΔP	PP Media PP Core	PP Media Reinforced PP Core	Maximum ΔP (Reverse Flow)
@ 20°C	4.0	4.0	3.5
@ 50°C	3.0	4.0	1.0
@ 80°C	1.0	2.4	0.5

Product validation guide available on request. All SupaPore PPG cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Standard Materials of Construction

Filter Media:	Polypropylene
Media support:	Polypropylene
End Caps:	Polypropylene
Cage/Core:	Polypropylene

## Flow Rates (10" Element)



## Ordering Guide

16P	PG	012 -	30	S	E	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
16P - Polypropylene	PG - Polypropylene DG - Polypropylene Cage and End Caps, Reinforced Polypropylene Core*3	002 - 0.2μm 004 - 0.45 005 - 0.5 006 - 0.6 008 - 0.8 010 - 1.0 012 - 1.2 025 - 2.5 030 - 3.0 045 - 4.5 050 - 5.0 100 - 10 200 - 20 400 - 40	02 - 64mm 05 - 125 09 - 250 20 - 509 30 - 762 40 - 1016	0 - DOE A - Code A B - Code B*1 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior*2	B - Buna E - EPDM F - FEP / Silicone (SOE Only) G - FEP / Viton S - Silicone T - PTFE (DOE Only) V - Viton	A - Amazon	G - Reinforced Polypropylene End Cap*3 A - Millidisk Retrofit Adaptor*4 B - 1/2" BSPM Adaptor*4 C - Trueseal Retrofit Adaptor*4

Example: 16PPG012-30SEA = Polypropylene media and core, General grade, 1.2μm rating, triple length 30", Code S connection with EPDM seal.

\*1 Code B - to fit Amazon 50 Series housings only  
\*2 Junior Cartridges available in 2" & 5", Code J, Single Open Ended Only  
\*3 Standard on Junior cartridges.  
\*4 Junior filters only

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16PP - Issue 07