

# SUPAPORE FPG

## Pleated Depth Filter Cartridge



SupaPore FPG Microfiltration cartridges have been designed as effective membrane prefiltrators and as final polishing filters for all liquid processing applications.

Manufactured using polypropylene hardware, the SupaPore FPG utilises a superior Borosilicate Glass Microfibre as the media. This highly efficient pleated depth media offers excellent dirt holding capacity and retention levels, making it an ideal clarifier in many liquid processing applications. Its thermally bonded construction ensures minimal extractables and its high filtration efficiency makes it an excellent choice for use in beverage, fine chemical & water treatment processes.



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

The SupaPore FPG cartridges use pleated depth media and are available in Standard and Junior sizes with micron ratings from 0.3µm to 10µm in the full range of industry standard lengths and end cap styles.

### Product Features

- Borosilicate Glass Microfibre media
- Polypropylene hardware with Polyester drainage layers
- Absolute removal ratings Beta ratio 5000
- Modular construction
- Standard and Junior configurations
- Graded density media for optimum dirt holding capacity
- Materials meet US FDA CFR Title 21 requirements
- All Polymeric materials meet the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004.\*1

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 End Cap option)

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
- Range of Absolute ratings from 0.3 to 10µm
- 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

\*1 See Product validation guide for details

## 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, Serum         |
| <b>Fine Chemicals</b>    | • Polymers, Bases, Solvents   |
| <b>Cosmetics</b>         | • Alcohol, Creams, Lotions, Essential oils, Mouthwashes                 |
| <b>Water Treatment</b>   | • Potable water, Resin trap, Pre/Post UV, Membrane protection           |

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# SupaPore FPG Technical Data

## Dimensions

Outside Diameter:	Standard 10"	Junior 5"
	68.5mm	55.5mm
Typical Surface Area:	0.36m <sup>2</sup> (Per 10")	0.12-0.14m <sup>2</sup>

## Sterilisation and Sanitisation\*2

Steam or Autoclave:	121°C for 15 mins (40 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Dp max)

\*2Applies 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 Maximum Differential Pressure:	
Forward Flow:	4.0 Bar @ 20°C
Reverse Flow:	3.5 Bar @ 20°C
Recommended change-out differential pressure:	2.5 Bar

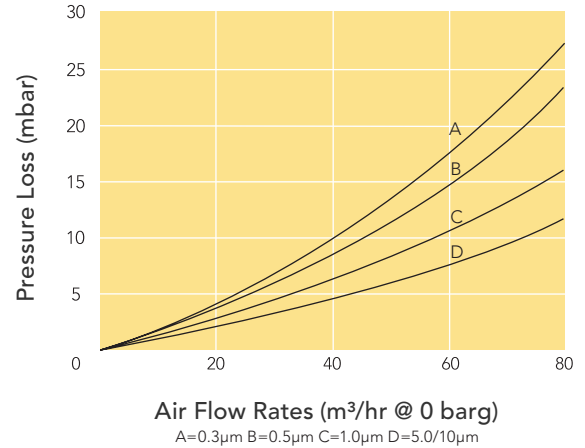
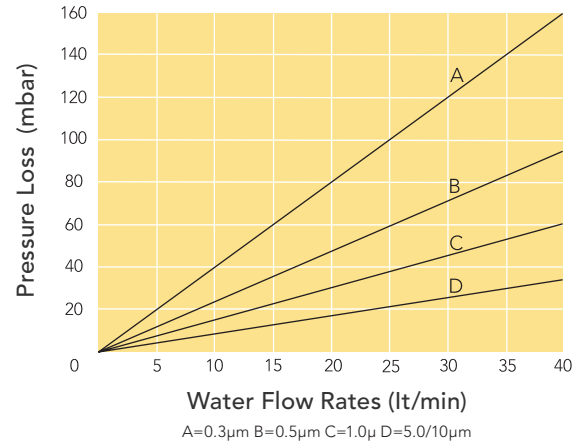
## Standard Materials of Construction

Filter Media:	Borosilicate Glass Microfibre (with binder) <sup>2</sup>
Media support:	Polyester
End Caps:	Polypropylene
Cage/Core:	Polypropylene

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

note 2 : refer to validation guide for binder specification

## Flow Rates (10" Element)



# Ordering Guide

16F	PG	005 -	20	A	S	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
16F - Borosilicate Glass Microfibre	PG - Polypropylene DG - Polypropylene Cage and Endcaps, Reinforced Polypropylene Core*5	003 - 0.3µm 005 - 0.5 010 - 1.0 050 - 5.0 100 - 10	02 - 64mm 05 - 125 09 - 250 20 - 509 30 - 769 40 - 1016	0 - DOE A - Code A B - Code B*3 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9 J - Junior*4	B - Buna E - EPDM F - FEP / Silicone (SOE Only) S - Silicone T - PTFE (DOE Only) V - Viton	A - Amazon	G - Reinforced Polypropylene End Cap*5 A - Millidisk Retrofit Adaptor*6 B - 1/2" BSPM Adaptor*6 C - Trueseal Retrofit Adaptor*6

Example: 16FPG005-20ASA = Glass Microfibre media with polypropylene hardware, General grade, 0.5µm rating, double length 20", code A connection with silicone seal.

\*3 Code B - to fit Amazon 50 Series housings only

\*4 Junior Cartridges available in 2" & 5", Code J, Single Open Ended Only

\*5 Standard in Junior cartridges

\*6 Junior filters only

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