

# SUPAPORE FPW

## Pleated Media Filter Cartridge



SupaPore FPW microfiltration cartridges can be used for most beverage applications including clarification, stabilisation and bio burden reduction. They also serve as the ideal membrane protection filter for final sterilising systems.

The advanced Borosilicate Glass Microfibre media has been selected due to its enhanced depth characteristics and exceptionally low pressure losses. This is combined with a downstream polypropylene media to support and strengthen the system. This highly efficient media combination is stable even in the most severe CIP (Clean In Place) systems. The optimised pleated depth media offers high flow rates, excellent dirt holding capacity and superior retention levels.

Manufactured using polypropylene for the hardware, the SupaPore FPW construction utilises a thermal welding technique to seal all the components therefore eliminating adhesives and extractables and optimising cartridge integrity.

Its high filtration efficiency and dirt capacity makes it an excellent choice for use in almost all beverage processes.



The SupaPore FPW cartridges are available in four grades with a full range of industry standard and junior lengths and end cap styles.

### Product Features

- Bacterial retention data with LRVs using *Oenococcus Oeni*
- Borosilicate Glass Microfibre media
- Epoxy binding for maximum compatibility
- Polypropylene hardware with Polyester drainage layers
- Modular construction
- Standard and Junior configurations
- 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

- R Grade for general bioburden reduction/particulate removal
- V Grade for optimum protection of all membranes ranging from 0.6 to 1.0µm
- X Grade for optimum protection of all membranes ranging from 0.2 to 0.45µm
- Y Grade for enhanced bioburden control and protection of membranes less than 0.2µm
- Validated\*1 removal ratings for consistent and reliable performance
- Pleated Borosilicate Glass Microfibre media combined with a meltblown polypropylene support layer
- Pleated depth media giving high flow rates and low initial pressure losses
- Wide chemical compatibility, meets FDA requirements
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- 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 FPW Technical Data

## Dimensions

Outside Diameter:	Standard 10"	Junior 5"
	68.5mm	55.5mm
Typical Surface Area:	0.23 - 0.33m <sup>2</sup>	0.13 - 0.15m <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 $\Delta p$ 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 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

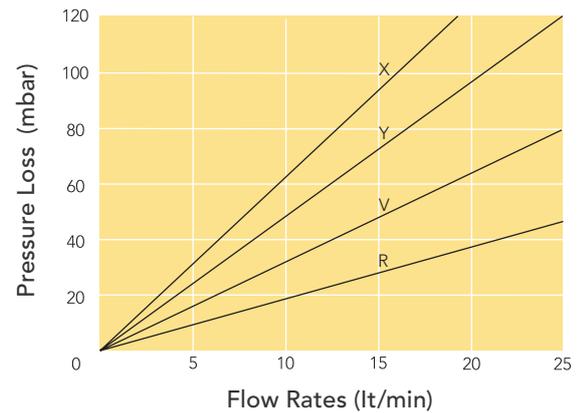
Filter Media:	Borosilicate Glass Microfibre (Epoxy)
Media support:	Polyester
End Caps:	Polypropylene
Cage/Core:	Polypropylene

## Microorganism Removal Efficiency (per 10" Element)

16FPW:	Typical LRV is >5 ( <i>Oenococcus Oeni</i> )
16FPW00X:	Typical LRV is >10 ( <i>Brettanomyces / Dekkera bruxellensis</i> (ISA 1791))

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

Flow Rates (10" Element)



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