# SUPAPORE VPW



Within the beverage industry, it is important that products are microbiologically stabilised prior to packaging to prolong shelf life and this is achieved without affecting the nature of the product. Minimising the cost of stabilisation whilst maintaining beverage quality remains a constant driver.

Amazon SupaPore VPW is a high flow advanced PES membrane filter cartridge designed to meet these requirements.

Amazon's SupaPore VPW cartridges can be in-situ steam sterilised and superior chemical resistance allows the cartridges to be repeatedly cleaned for a longer service life.

#### **Applications**

Clarification and microbiological stabilisation of Beers, Wines, Bottled water and other beverages.



#### **Cartridge Construction**

All cartridges are thermally bonded and adhesive free. Each unit is preflushed with ultra-pure water and integrity tested before final assembly.

- Meets requirements for materials intended to come into contact with food as described in CFR Title 21 as well as the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- Meets current USP requirements for extractables
- Full product validation guide available

Amazon Filters manufactures a comprehensive range of filter housings for SupaPore VPW 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

- High surface area offering high flow rates and long life
- Utilises naturally hydrophilic PES membrane providing low adsorption of protein, colour and flavour components
- Cartridge exhibits wide chemical compatibility and can be regenerated for extended service life
- Repeatedly integrity testable to assure consistent performance throughout their service life
- Range of removal ratings and validated\* for consistent and reliable performance
- Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents
- All individual packing bags are anti static

(Note: steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene End Cap option)
'See product guides for further details stating test method and rated efficiencies

# Industries and Applications

Wineries Reduction of spoilage organisms Sterilisation prior to bottling

**Breweries** Yeast Reduction

> Cold stabilisation prior to packaging Sterilisation of Dealcoholised liquors

Sterile filtration of mineral water Sterilisation of product make-up water

**Utilities** Sterilisation of critical water



Soft Drinks

## SupaPore VPW Technical Data

#### **Dimensions**

Outside Diameter: 68.5mm

0.65m<sup>2</sup> - 0.75m<sup>2</sup> (Per 10") Typical Surface Area:

#### Sterilisation and Sanitisation\*1

121°C for 60 mins (up to 240 cycles) Steam or Autoclave:

134°C for 30 mins (up to 25)

Up to 90°C Hot Water:

"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:

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

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

#### **Standard Materials of Construction**

Filter Media: Polyethersulphone (PES)

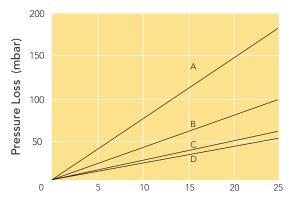
Media support: Polypropylene End Caps: Polypropylene Cage/Core: Polypropylene

#### Microorganism Removal Efficiency (per 10" Element)

16VPW002: LRV >11 (Brevundimonas diminuta (ATCC 19146)) 16VPW004: LRV >8 (Serratia marcescens (ATCC 14756)) 16VPW004,006,010: LRV >11 (Brettanomyces / Dekkera bruxellensis

(ISA 1791))

#### Flow Rates (10" Element)



#### Water Flow Rates (It/min)

A=0.1μm B=0.2μm C=0.45μm D=0.65/0.8/1.0/1.2μm

#### **Integrity Test Specification**

Micron Rating	Minimum Bubble Point In Water	Diffusion Flow (cc/min/10") In Water			
0.1µm	4140mBar (60 psi)	≤ 30 @ 3310mBar			
0.2µm	3030mBar (44 psi)	≤ 30 @ 2410mBar			
0.45µm	1720mBar (25 psi)	≤ 30 @ 1380mBar			
0.65µm	1310mBar (19 psi)	≤ 30 @ 1030mBar			
0.8µm	1030mBar (15 psi)	≤ 30 @ 830mBar			
1.0µm	690mBar (10 psi)	≤ 30 @ 550mBar			
1.2µm	600mBar (9 psi)	≤ 30 @ 480mBar			

## Ordering Guide

16VP W 30

Media	Grade	Micron Rating	Length	End Caps	Seal	Branding	Options
16VP - Polyethersulphone / Polypropylene 16VD - Polyethersulphone / Polypropylene Cage and End Caps, Reinfroced Polypropylene Core	W - Single Layer Beverage Grade	00A - 0.03µm 001 - 0.10 002 - 0.20 004 - 0.45 006 - 0.65 008 - 0.80 010 - 1.0 012 - 1.2	05 - 125mm 09 - 251 20 - 510 30 - 757 40 - 1016	0 - DOE A - Code A B - Code B*2 S - Code S 2 - Code S 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM S - Silicone V - Viton F - FEP / Silicone G - FEP / Viton T - PTFE	A - Amazon	G - Reinforced Polypropylene End Cap

xample: 16VPW004-303SA = Polyethersulphone media with polypropylene core, Beverage Grade, 0.45µm, triple length 30" long, Code 3 end fitting with Silicone seal. Code B - to fit Amazon 50 Series housings only

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