

# SUPAPLEAT II

AMAZON

## ABSOLUTE RATED PLEATED DEPTH FILTER

**SUPAPLEAT II** high surface area pleated depth cartridges have been developed to suit industrial processes where high levels of efficiency are required, whilst maintaining extremely low pressure losses. In-house developments have optimised the filter media to give higher levels of porosity, and state of the art manufacturing technologies give excellent build quality.

Three media options are offered as standard, the **PP**, **GP** and **MP**. The **PP** features the specific CRY Cryptosporidium grade designed for Food and Beverage applications. All feature 100% polypropylene cage, core and end cap assembly. Thermal welding processes seal all components, eliminating adhesives and extractables, and optimising cartridge integrity.

**SUPAPLEAT II PP** cartridges feature:

- Melt blown Polypropylene media
- Wide chemical compatibility
- Materials meet US FDA title 21 and USP Class VI requirements
- CRY Cryptosporidium grade

**SUPAPLEAT II GP** cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

**SUPAPLEAT II MP** cartridges feature:

- Nylon monofilament woven mesh media
- High flow, low pressure loss

**Absolute Rated Filter Media**

- Available from 0.5 to 400µm
- Consistent reliable performance

**Product Features**

**SUPAPLEAT II** filter cartridges are produced using an improved manufacturing process resulting in the following features:

- One piece high strength all polypropylene support core up to 1018mm (40")
- High surface area, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- 100% thermally welded construction for maximum integrity and strength
- All polypropylene hardware
- Optional high strength core for improved thermal stability at continuously elevated temperatures

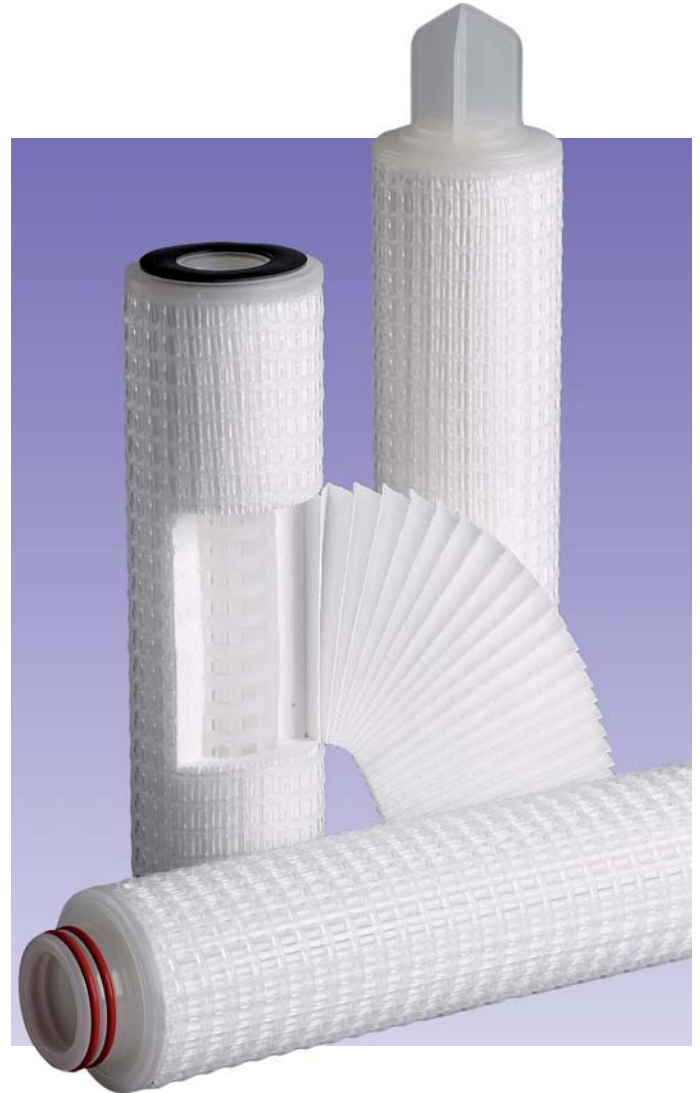
Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents. (Note: Steaming, autoclaving and hot water sanitisation must use the stainless steel support ring or the glass filled end-cap option)

## SUPAPLEAT II FEATURES AND BENEFITS

- Absolute removal ratings for consistent and reliable performance
- **PP** – Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- **GP** – Glass microfibre media gives excellent dirt holding capacity
- **MP** – Nylon monofilament mesh offers selective retention with the ability to be cleaned
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Cryptosporidium grade (CRY) with typical  $10^4$  log reduction value for use in Food and Beverage applications
- Batch traceability

See product guides for further details of test methods and rated efficiencies

SUPAPLEAT II



## TECHNICAL DATA

### Dimensions

Outside Diameter: 66mm  
 Core Diameter: 27mm  
 Typical Surface Area: 03PP: 0.4 - 0.6m<sup>2</sup>  
 03GP: 0.36 - 0.39m<sup>2</sup>  
 03MP: 0.19 - 0.25m<sup>2</sup>  
 Length: See ordering guide

### Sterilisation and Sanitisation\*1

Steam: 121°C for 15 mins (20 cycles)  
 Hot Water: 90°C for 30 mins (0.2 bar Δp max)

\*1Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled PP end cap option must be used.

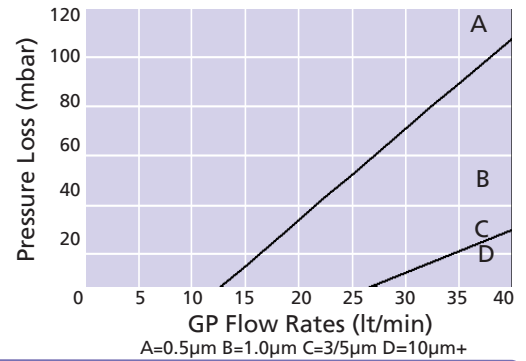
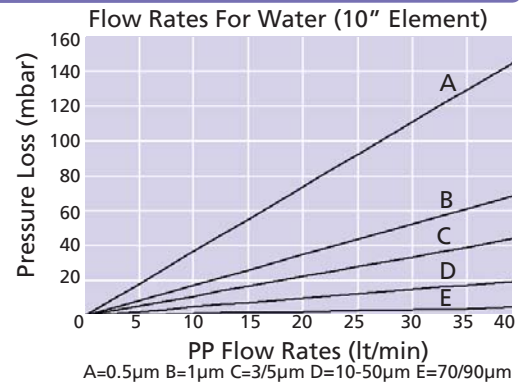
### Maximum Operating Conditions

Temperature 80°C

Recommended Maximum Differential Pressure: 1.5 Bar

Maximum DP	PP Media PP Core	PP Media GFPP Core
@ 20°C	4.0	4.0
@ 50°C	1.5	4.0
@ 80°C	0.25	2.4

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



## ORDERING GUIDE

MEDIA	CORE/ASSEMBLY	MICRON RATING	LENGTH (DOE)	CONNECTIONS	SEAL	OPTIONS
G - Glass microfibre M - Nylon Mesh P - Polypropylene	P - Polypropylene D - Glass Filled polypropylene T - 316 St. Steel	Glass microfibre/ Polypropylene CRY - Crypto*2 000 - 0.5µm 001 - 1.0 003 - 3.0 005 - 5.0 010 - 10 020 - 20 035 - 35 050 - 50*2 070 - 70*2 090 - 90*2  Nylon 100 - 100 200 - 200 400 - 400	09 - 249mm 10 - 254 20 - 509 30 - 763 40 - 1017	0 - DOE A - Code A B - Code B*3 S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP/Silicone (SOE only) S - Silicone T - PTFE V - Viton	S - St.St Insert G - Glass filled PP end cap

Example: 03PP005-203EA = Polypropylene media and core, 5 µm rating, double length (20") long, code 3 connections with EPDM seal.  
 \*2 Polypropylene media only \*3 Code B - to fit Amazon 50 Series housings only

## INDUSTRIES AND APPLICATIONS

- |  |   |
|--|---|
| Food and Beverage<br>Pharmaceutical<br>Fine Chemicals<br>Cosmetics<br>Metal Finishing<br>Water Treatment<br>Automotive | <ul style="list-style-type: none"> <li>Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification</li> <li>Solvent discharge, Raw water supplies</li> <li>Polymers, Acids, Bases, Solvents</li> <li>Alcohol, Essential oils, Mouthwash solutions</li> <li>Plating solutions, Wash solutions, Paints, Resins, Varnishes</li> <li>Pre reverse osmosis, UV protection, Resin trap, Cryptosporidium removal</li> <li>Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints, Top coats</li> </ul> |
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