

# SUPAPLEAT II

## Absolute Rated Pleated Filter



SupaPleat II high surface area pleated cartridges have been developed to suit industrial processes where high levels of efficiency and extremely low pressure loss are required. 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
- Extended life version available
- Wide chemical compatibility
- 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
- 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
- Beta 5000 rating

**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 1017mm (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 and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the Reinforced Polypropylene End Cap option)

## Features and Benefits

- Absolute removal ratings for consistent and reliable performance
- **PP** - Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- **XP** - Extended life version for more challenging applications
- **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
- ATEX compliant packaging as standard
- All individual packing bags are anti static

See product validation guide for further details of test methods and rated efficiencies

## Industries and Applications

- |                          |  |
|--------------------------|--|
| <b>Food and Beverage</b> | • Bottled water, Beers, Wines, Flavours, Polishing lines, General clarification        |
| <b>Pharmaceutical</b>    | • Solvent discharge, Raw water supplies  |
| <b>Fine Chemicals</b>    | • Polymers, Acids, Bases, Solvents   |
| <b>Cosmetics</b>         | • Alcohol, Essential oils, Mouthwash solutions   |
| <b>Metal Finishing</b>   | • Plating solutions, Wash solutions, Paints, Resins, Varnishes                         |
| <b>Water Treatment</b>   | • Pre reverse osmosis, UV protection, Resin trap, Cryptosporidium removal              |
| <b>Automotive</b>        | • Wash solutions, Cooling fluid, Blanking wash oils, Electrophoretic paints, Top coats |

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# SupaPleat Technical Data

## Dimensions

Outside Diameter:	66mm
Core Diameter:	27mm
Typical Surface Area: (per 10")	03PP: 0.4 - 0.6m <sup>2</sup>
	03GP: 0.36 - 0.39m <sup>2</sup>
	03MP: 0.19 - 0.25m <sup>2</sup>
	03XP: 0.30m <sup>2</sup>

## Sterilisation and Sanitisation\*1

Steam:	121°C for 60 mins (240 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

\*1: 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

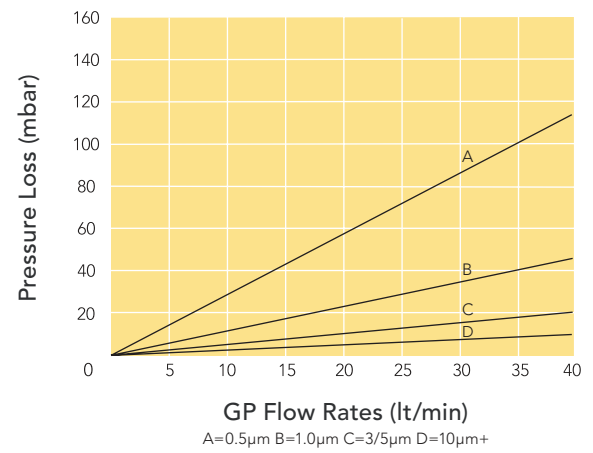
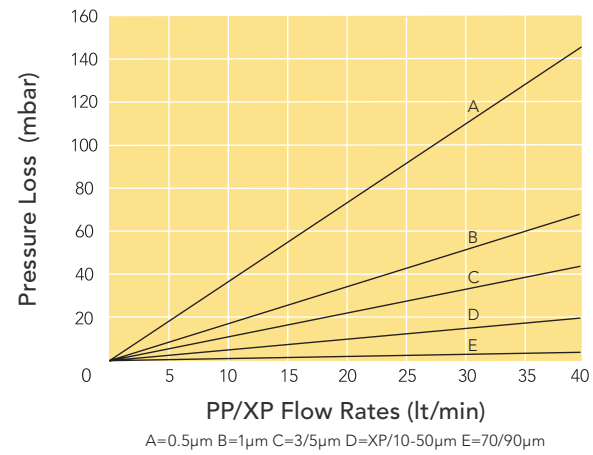
Temperature:	80°C
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Recommended change-out differential pressure: 2.5 Bar

Maximum ΔP	PP Media PP Core	PP Media Reinforced PP 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.

## Flow Rates For Water (10" Element)



# Ordering Guide

03P	P	005 -	20	3	E	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
03G - Glass Microfibre 03M - Nylon Mesh 03P - Polypropylene 03X - Extended Life Polypropylene*4	P - Polypropylene D - Reinforced Polypropylene S - St.Steel	<b>Glass microfibre / Polypropylene</b> 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  <b>Nylon</b> 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	A - Amazon	G - Reinforced Polypropylene End Cap

Example: 03PP005-203EA = Polypropylene media and core, 5µm 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 \*4 - Available for all polypropylene micron ratings except the CRY.

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