

# SUPAPLEAT PLUS

## Absolute Rated Pleated Depth Filter



SupaPleat Plus high surface area pleated depth cartridges have been developed to suit industrial processes where high levels of efficiency and extremely low pressure losses 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.

SupaPleat Plus filters have enhanced durability due to the use of a robust outer cage. For more critical applications where greater process control is required there is also the option to have lot and part number identification on every cartridge.

Two media options are offered as standard, the **PB** and **GB**. The **PB** 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 Plus **PB** cartridges feature:

- Melt blown polypropylene media
- Extended life version available
- 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 Plus **GB** cartridges feature:

- Glass microfibre media
- Extremely high dirt holding capacity

**Absolute Rated Filter Media**

- Available from 0.5 to 400µm
- Consistent reliable performance
- Beta 5000 rating

**Product Features**

- One piece high strength all polypropylene support cage and core up to 1017mm (40")
- Optional high strength core for improved thermal stability at continuously elevated temperatures.
- Suitable for most sanitisation regimes including steaming, autoclaving, hot water and most common sanitising agents.

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

- Batch traceability

## Features and Benefits

- High surface area, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- Absolute removal ratings for consistent and reliable performance
- **PB** - Wide chemical compatibility using 100% polypropylene to meet FDA requirements
- **XB** - Extended life version for more challenging applications
- **GB** - Glass microfibre media gives excellent dirt holding capacity
- Cryptosporidium grade (CRY) with typical  $10^4$  log reduction value for use in Food and Beverage applications
- All individual packing bags are anti static

## 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 Plus Technical Data

## Dimensions

Outside Diameter:	66mm
Core Diameter:	27mm
Typical Surface Area:	0.4 - 0.6m <sup>2</sup>
(per 10")	03PB: 0.36 - 0.39m <sup>2</sup>
	03GB: 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

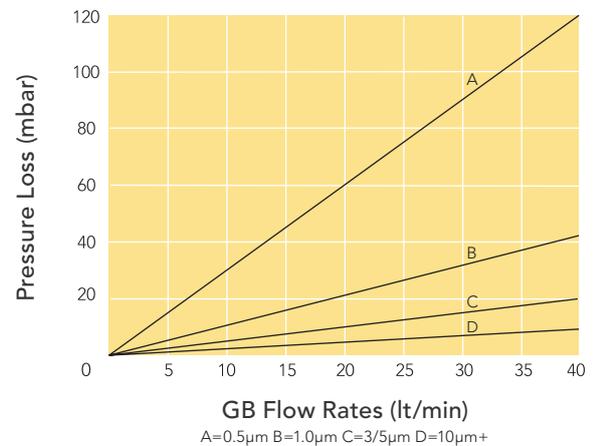
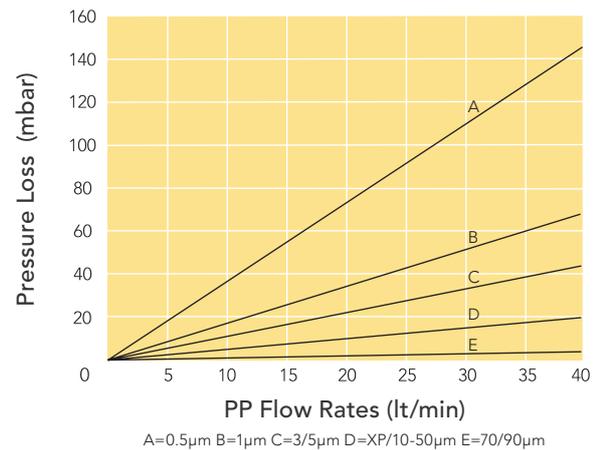
Temperature: 80°C

Recommended change-out differential pressure: 2.5 bar

Temperature	Maximum Differential Pressure (bar)	
	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 Plus cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

## Flow Rates For Water (10" Element)



## Ordering Guide

Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
03G - Glass Microfibre 03P - Polypropylene 03X - Extended Life Polypropylene*4	B - PP Core, PP Single Piece Hard Cage C - Reinforced Polypropylene Core, PP Single Piece Hard Cage E - Stainless Steel Core, PP Single Piece Hard Cage Moulded Ends	<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 - 250mm 10 - 255 20 - 505 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: 03PB005-203EA = Polypropylene media and core with Polypropylene single piece hard cage. 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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