

# SUPASpun II

## Absolute Rated Depth Cartridge



SupaSpun II precision graded density filter elements are a further development of our already well proven absolute rated depth type filter. These high performance cartridges excel in dirt holding capacity and give extremely low clean pressure losses as a result of the strictly controlled manufacturing of the fibre matrix.

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

### Absolute Rated Filter Media

- Available from 0.3 to 180µm
- Polypropylene or nylon 6
- Consistent reliable performance

### Unique Construction

- One piece high strength support core



- High void volume, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix minimises fibre migration
- One piece construction up to 1524mm (60")
- SupaSpun II Advantage grade featuring moulded End Caps and rigid outer support cage
- Optional reinforced polypropylene core and end caps for high strength / temperature applications

### Product Features

- 100% polypropylene or nylon 6
- Materials meet US FDA CFR Title 21
- Meets USP Class VI requirements (PP only)
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004 (PP Only)

SupaSpun II fibres are blown continuously onto a central support core, with fibre diameters controlled to produce different pore sizes

throughout the extrusion process. All the layers are inter-linked to offer maximum support while ensuring that the high void



volume is maintained, but with increasing fibre density towards the cartridge central core - therefore resulting in true depth filtration.

Elements are available up to 1524mm (60") in length, either double open ended or with most common end cap fittings.

## Features and Benefits

- All individual packing bags are anti static
- Absolute removal ratings for consistent and reliable performance
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility using optional materials, polypropylene and nylon 6
- Range of Absolute ratings from 0.3 to 180µm (Beta Ratio 5000)
- Thermal bonding process minimises media migration and ensures minimal extractables
- Identification data embossed on every cartridge
- Advantage grade featuring moulded end caps and rigid outer support cage

## 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                  |
| <b>Fine Chemicals</b>    | • Polymers, Photoresists, Acids, Bases, Solvents                          |
| <b>Electronics</b>       | • High purity water, Photoresists, Acids, Etch solutions                  |
| <b>Cosmetics</b>         | • Alcohol, Creams, Lotions, Essential oils, Mouthwashes                   |
| <b>Metal Finishing</b>   | • Plating solutions, Wash solutions, Paints, Resins, Varnishes            |
| <b>Water Treatment</b>   | • Potable water, Resin trap, Pre/Post UV, Membrane protection             |
| <b>Automotive</b>        | • Blanking wash oils, Electrophoretic paints, Top Coats, Hydraulic fluids |
| <b>Petrochemicals</b>    | • Amine stream, Glycol solutions, Water injection and Membrane protection |

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# SupaSpun II Technical Data

Dimensions	PP	NN
Outside Diameter:	64mm	64mm
Core Diameter:	28mm	27mm

## Sterilisation and Sanitisation\*1

Steam: 121°C for 240 Cycles of 60 mins each  
135°C for 8 Cycles of 30 mins each

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 (PP Only)

## Maximum Operating Conditions

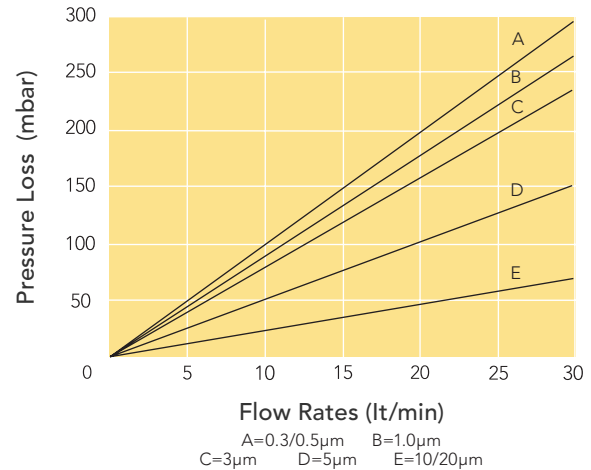
Temperature:	04PP:	80°C
	04PD:	100°C
	04NN:	150°C
	04PS:	100°C

Recommended change-out differential pressure: 2.5 Bar

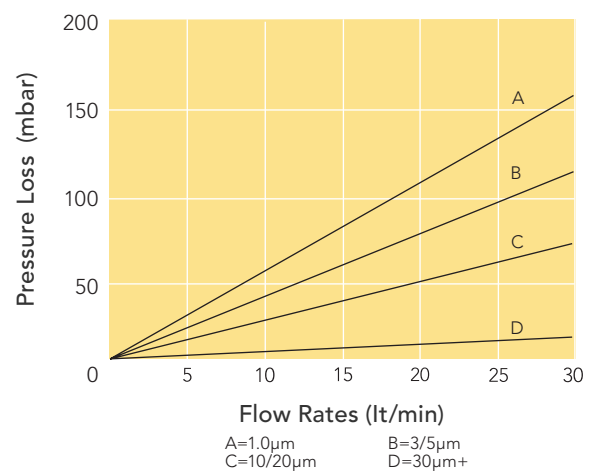
Maximum Δp	PP Media PP Core	PP Media Reinforced PP Core	Nylon Media Nylon Core	P P Media St.St Core
@ 20°C	4.0	4.0	4.0	4.0
@ 50°C	1.5	4.0	4.0	4.0
@ 80°C	0.25	2.4	1.0	4.0
@ 100°C	-	1.5	0.5	4.0

Product Validation Guide available on request. All SupaSpun II cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow Rates for Water  
(10" PP Element)



Flow Rates for Water  
(10" NN Element)



## Ordering Guide

04P	P	005 -	20	N	N	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
04P - Polypropylene 04N - Nylon	<b>Standard</b> P - Polypropylene D - Reinforced Polypropylene N - Nylon 6 S - St.St A - Nylon with Voile V - Polypropylene with Voile  <b>Advantage</b> W - Outer Cage + Moulded Ends Y - Outer Cage + Reinforced Polypropylene Core + Moulded Ends	00X - 0.3µm*2 000 - 0.5 *2 001 - 1.0 002 - 2.0 003 - 3.0 005 - 5.0 010 - 10 020 - 20 030 - 30 050 - 50 070 - 70 090 - 90 120 - 120 150 - 150 180 - 180	05 - 125mm 09 - 251 10 - 254 13 - 332 20 - 508 30 - 762 40 - 1016 60 - 1524	N - None A - Code A B - Code B*3 D - Code D S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8 0 - Code 0	N - None B - Buna E - EPDM F - FEP / Silicone P - PE Gasket S - Silicone V - Viton	A - Amazon	G - Reinforced Polypropylene End Cap

Example: 04PP005-20NNA = Polypropylene media and core, 5µm rating, double length 508mm (20") long, Double open connections, no seal  
\*2 Polypropylene only \*3 Code B - to fit Amazon 50 Series housings only

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