

# 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



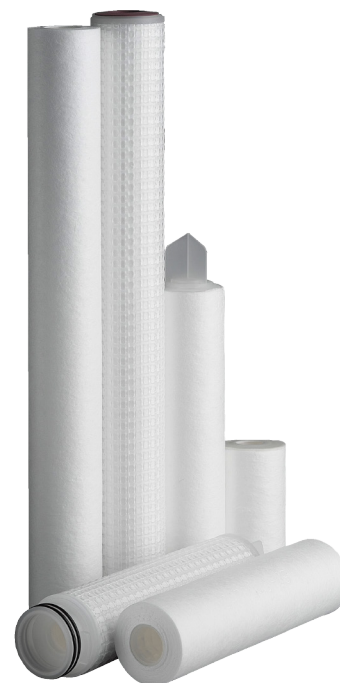
- High void volume, resulting in low clean  $\Delta p$  and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix minimises fibre migration
- One piece construction up to 1524mm (60")
- SupaSpun II Advantage grade featuring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

### Product Features

- 100% polypropylene or nylon 6
- Materials meet US FDA Title 21 and 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

- 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 15 mins (20 Cycles)
	135°C for 30 mins (5 Cycles)
Hot Water:	90°C for 30 mins (0.2 bar $\Delta p$ max)

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

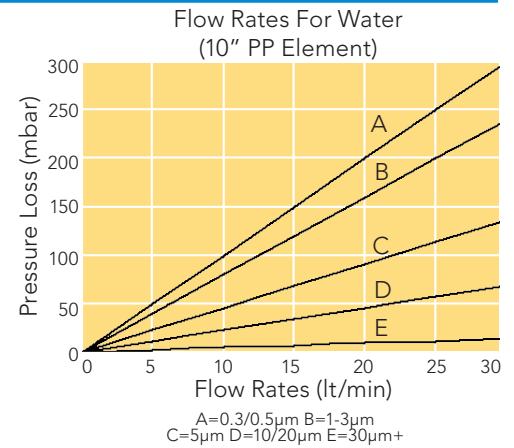
## Maximum Operating Conditions

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

Recommended change-out differential pressure: 2.5 Bar

Maximum $\Delta p$	PP Media PP Core	PP Media GFPP Core	Nylon Media Nylon Core	PP 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.



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