

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 Δp 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

- | | |
|--------------------------|---|
| Food and Beverage | • Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification |
| Pharmaceuticals | • Membrane pre-filtration, Ophthalmic, Oral medications |
| Fine Chemicals | • Polymers, Photoresists, Acids, Bases, Solvents |
| Electronics | • High purity water, Photoresists, Acids, Etch solutions |
| Cosmetics | • Alcohol, Creams, Lotions, Essential oils, Mouthwashes |
| Metal Finishing | • Plating solutions, Wash solutions, Paints, Resins, Varnishes |
| Water Treatment | • Potable water, Resin trap, Pre/Post UV, Membrane protection |
| Automotive | • Blanking wash oils, Electrophoretic paints, Top Coats, Hydraulic fluids |
| Petrochemical | • Amine stream, Glycol solutions, Water injection and Membrane protection |



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	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

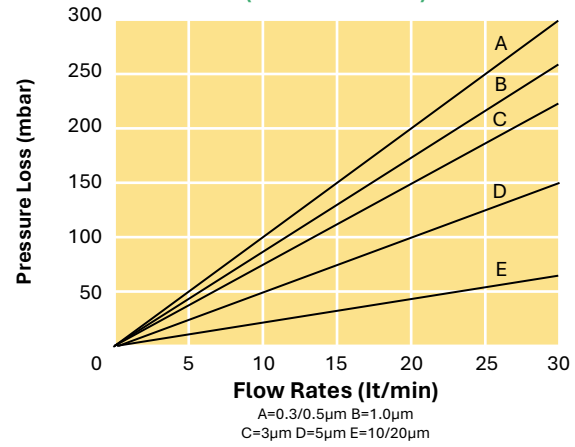
Product validation guide available on request. All **SupaSpun II** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components

Ordering Guide

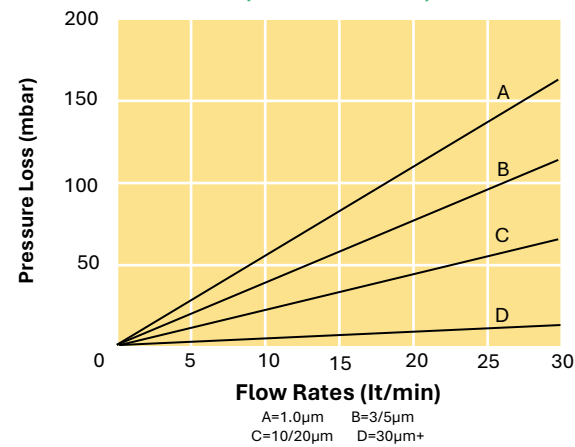
04P	P	005-	20	N	N	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
04P – Polypropylene 04N – Nylon	Standard P - Polypropylene D - Reinforced Polypropylene N - Nylon 6 S - St.St A - Nylon with Voile V - Polypropylene with Voile Advantage W - Outer Cage + Moulded Ends Y - Outer Cage + Reinforced Polypropylene Core + Moulded Ends	00X - 0.3 μ m*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: 04PP005-20AHAR31 = Polypropylene media and core, 5 μ m rating, double length 508mm (20") long, Code A connections, EPDM seal
*1 Code B - to fit Amazon 50 Series housings only

Flow Rates for Water (10" PP Element)



Flow Rates for Water (10" NN Element)



This product is made from a sustainable source of polypropylene.

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AMAZON FILTERS LTD.

Albany Park Estate, Camberley, Surrey, GU16 7PG, ENGLAND

Tel. +44 (0) 1276 670 600 Email. sales@amazonfilters.co.uk Web: www.amazonfilters.co.uk

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