

SUPASPIN II



ABSOLUTE RATED DEPTH CARTRIDGE



SUPASPIN 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.

SUPASPIN 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

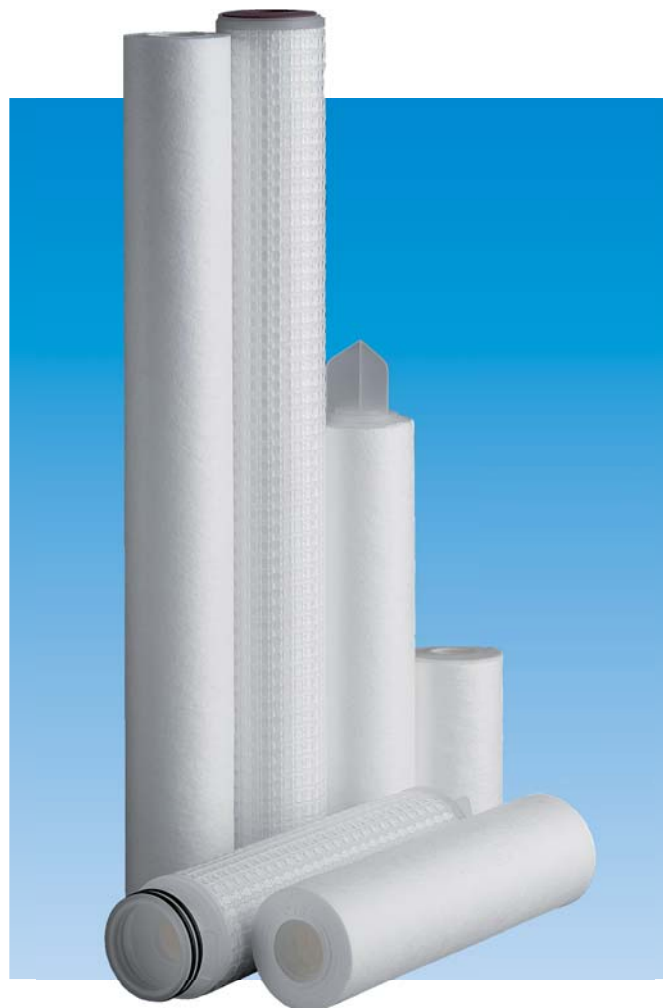
- One piece high strength support core
- High void volume, resulting in low clean Δp and excellent dirt holding capacity
- End cap welded direct to the core for extra security and strength
- Thermally bonded fibre matrix minimises fibre migration
- One piece construction up to 1524mm (60")
- **SUPASPIN 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)
- WRAS listed and Reg 31 approved for use in UK potable water supplies (PP only)

SUPASPIN 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.



SUPASPIN II 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 on 0.3 to 20µm, PP only)
- 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
- Cartridges only need to be flushed with site water for 30 minutes before the filters can be brought into full service

TECHNICAL DATA

Dimensions	PP	NN
Outside Diameter:	64mm	64mm
Core Diameter:	28mm	27mm
Length:	See ordering guide	

Sterilisation and Sanitisation^{*1}

Steam:	121°C for 15 mins (20 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

Maximum Operating Conditions

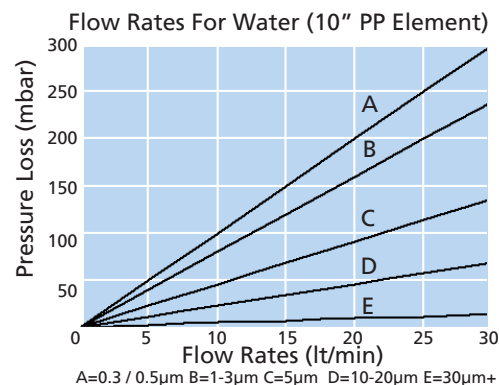
Temperature	04PP:	80°C
	04PD:	100°C ^{*1}
	04NN:	150°C
	04PT:	100°C

^{*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)

Recommended Maximum Differential Pressure: 1.5 Bar

Maximum ΔP	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 SUPASPIN II cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.



ORDERING GUIDE

04 ○ ○ ○ ○ ○ - ○ ○ ○ ○ ○ A ○

MEDIA	CORE/ASSEMBLY	MICRON RATING	LENGTH	END CAPS	SEAL	OPTIONS
P - Polypropylene	STANDARD	00X - 0.3μm ^{*2}	05 - 125mm	N - None	N - None	G - Glass filled
N - Nylon	P - Polypropylene	000 - 0.5 ^{*2}	09 - 251	A - Code A	B - Buna	PP end cap
	D - Glass filled	001 - 1.0	10 - 254	B - Code B ^{*3}	E - EPDM	
	polypropylene	003 - 3.0	13 - 332	D - Code D	F - FEP/Silicone	
	N - Nylon 6	005 - 5.0	20 - 508	S - Code S	P - PE Gasket	
	T - 316 St. St.	010 - 10	30 - 762	2 - Code 2	S - Silicone	
	A - Nylon with Voile	020 - 20	40 - 1016	3 - Code 3	V - Viton	
	V - Polypropylene	030 - 30	60 - 1524	7 - Code 7		
	with Voile	050 - 50		8 - Code 8		
	ADVANTAGE	070 - 70		0 - Code 0		
	W - Outer cage +	090 - 90				
	moulded ends	120 - 120				
	Y - Outer cage +	150 - 150				
	glass filled core	180 - 180				
	+ moulded ends					

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

INDUSTRIES AND APPLICATIONS

Food and Beverage	• Bottled water, Beers, Wines, Flavours, Polishing lines, Clarification
Pharmaceuticals	• Membrane pre-filtration, Ophthalmics, 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
Petrochemicals	• Amine stream, Glycol solutions, Water injection and Membrane protection

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