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, Opthalmics, 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
SupaSpun II Technical Data

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

Sterilisation and Sanitisation*1
- Steam: 121°C for 240 Cycles of 60 mins each
- Hot Water: 90°C for 30 mins (0.2 bar Δp max)

Maximum Operating Conditions
- Temperature:
  - 04PP: 80°C
  - 04PD: 100°C
  - 04NN: 150°C
  - 04PS: 100°C

Recommended change-out differential pressure: 2.5 Bar

<table>
<thead>
<tr>
<th>Maximum Δp</th>
<th>PP Media</th>
<th>PP Media Reinforced PP Core</th>
<th>Nylon Media</th>
<th>PP Media St.St Core</th>
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<tr>
<td>@ 20°C</td>
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<tr>
<td>@ 100°C</td>
<td>-</td>
<td>1.5</td>
<td>0.5</td>
<td>4.0</td>
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</table>

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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