

# SUPAGARD

## Nominal Rated Depth Cartridge



SupaGard is the latest development in nominal rated spun bonded filter cartridge design.

Manufactured with a true graded density, these elements exhibit a high void volume that results in low clean differential pressure losses and an excellent dirt holding capacity when compared to similarly rated elements. Each cartridge is complete with an integral support for maximum strength. The superior structure remains integral even under severe operating conditions and is less prone to media migration and breakthrough, often found on other unsponbonded products.

SupaGard cartridges are produced using a unique manufacturing process resulting in the following features:-

### Nominal Rated Filter Media

- Available from 0.5 to 200µm
- Consistent reliable performance



### Unique Construction

- One piece high strength all polypropylene 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")
- SupaGard Advantage grade featuring moulded end caps and rigid outer support cage
- Optional GF core and end caps for high strength / temperature applications

### Product Features

- 100% Polypropylene
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meets the requirements for food contact as detailed in European Regulation (EC) Number 1935/2004
- WRAS listed for use in UK potable water supplies

SupaGard fibres are blown continuously onto a central support core, without the need for binders, resins or lubricants. This results in a one piece construction that is resistant



to unloading and media shedding. True depth filtration results from the closely controlled fibre production in manufacturing. The process environment ensures a consistent and reliable high quality element.

Elements are available up to 1524mm (60") in length, either double open ended or with most common end cap fittings, and also in 10" and 20" B-Blue sizes.

## Features and Benefits

- Consistent and reliable performance and efficiency
- Identification embossed on every cartridge
- Graded density structure for maximum dirt holding capacity
- Increased void volume giving high flow rates and low initial pressure losses
- Wide chemical compatibility, using 100% polypropylene to meet FDA requirements
- Range of Nominal ratings from 0.5 to 200µm
- Thermal bonding process minimises media migration and ensures minimal extractables
- Advantage grade featuring moulded end caps and rigid outer support cage
- B-Blue large diameter cartridges available in all grades
- All individual packing bags are anti static

## Industries and Applications

<b>Food and Beverage</b>	• Bottled water, Flavours, Polishing lines, Trap filters
<b>Pharmaceuticals</b>	• Base product clarification, Membrane pre-filtration, Bulk transfer
<b>Fine Chemicals</b>	• Solvents, Process streams, Water purification, Acids, Alcohols
<b>Petrochemicals</b>	• Waterflood, Completion fluids, Amine streams, Glycol
<b>Cosmetics</b>	• Alcohols, Essential oils, Water lines, Transfer filters
<b>Water Treatment</b>	• Membrane protection (Reverse Osmosis, Nano), Resin trap, Potable water
<b>Metal Finishing</b>	• Plating solutions, Paint and resin products, Wash solutions

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# SupaGard Technical Data

## Dimensions

Outside Diameter: 64mm  
116mm (B-Blue)  
Core Diameter: 28mm

## Maximum Operating Conditions

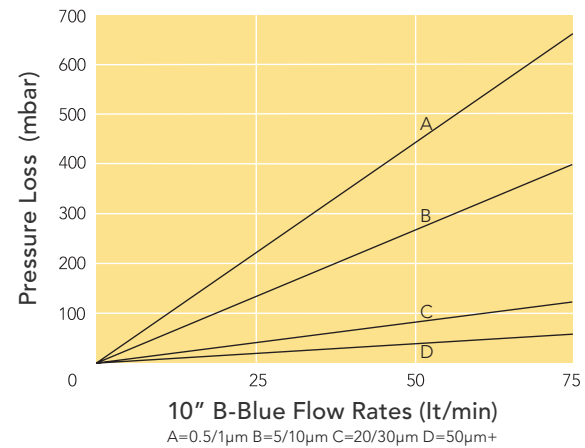
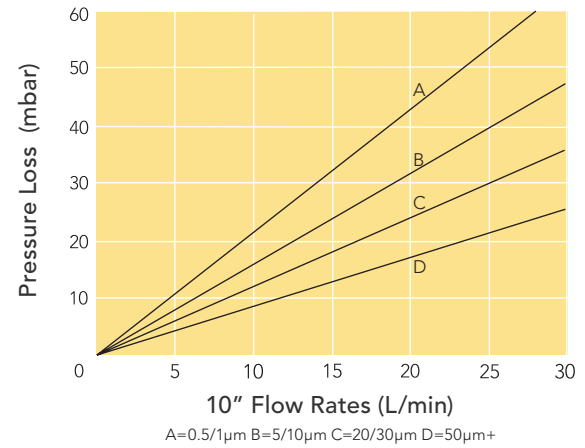
Temperature: 07PP: 80°C  
07PD: 100°C  
07PS: 100°C

Recommended change-out differential pressure: 2.5 Bar

Maximum ΔP	PP Media PP Core	PP Media Reinforced PP Core	PP Media St.St Core
@ 20°C	4.0	4.0	4.0
@ 50°C	1.5	4.0	4.0
@ 80°C	0.25	2.4	4.0
@ 100°C	-	1.5	4.0

Product Validation Guide available on request.

Flow Rates for Water  
(10" Element)



## Ordering Guide

07P	P	001 -	09	N	N	A	
Media	Core / Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
07P - Polypropylene	<b>Standard</b> P - Polypropylene D - Reinforced Polypropylene S - St.St V - Polypropylene with Voile  <b>Advantage</b> W - Outer cage + Moulded Ends Y - Outer cage + Reinforced Polypropylene core + Moulded Ends	000 - 0.5µm 001 - 1.0 005 - 5.0 010 - 10 020 - 20 030 - 30 050 - 50 075 - 75 100 - 100 150 - 150 200 - 200	05 - 125mm 09 - 251 10 - 254 19 - 500 20 - 508 29 - 752 30 - 762 39 - 1002 40 - 1016 60 - 1524	N - None A - Code A B - Code B* <sup>1</sup> 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 G - FEP / Viton P - PE Gasket S - Silicone V - Viton	A - Amazon	BB - B-Blue* <sup>2</sup> G - Reinforced Polypropylene End Caps

Example: 07PP005-20NPA = Polypropylene media and core, 5µm rating, double length 508mm (20") long, with Polyethylene seal.

\*<sup>1</sup> Code B - to fit Amazon 50 Series housings only

\*<sup>2</sup> B-Blue cartridges available in 251 and 508mm lengths, double open ended only.

# 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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