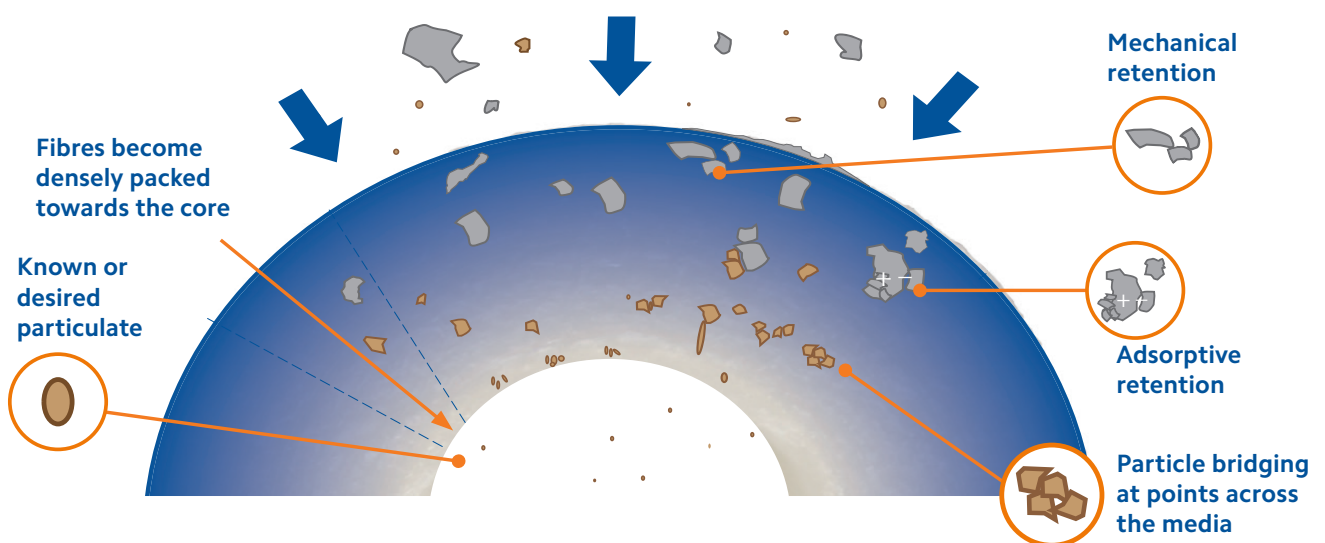


What is Depth Filtration?

Successfully used in a variety of applications, depth filtration utilises a thick layer of media to effectively trap and retain various particulate. Commonly specified as the first stage of a filtration cascade, more advanced manufacturing techniques have now developed depth cartridges suited to improving downstream filtration.

Cross-Section of a Depth Cartridge



How do Depth Filters Work?

As liquid from the inlet is sent twisting and turning on a tortuous path through the filter cartridge, particles become caught in the densely packed fibres of a depth filter - this sieving or interception is known as mechanical retention. With the introduction of graded-depth filtration, a broad range of particulate can be captured across the entirety of the depth media.

From outside to in, the media fibres become densely packed with larger particulate captured first, allowing smaller particles to be progressively intercepted. As well as the physical interception, fibres also naturally attract particles via Van de Waals force. This adhesion process is known as adsorptive retention.

Typical Applications

Depth filtration offers a myriad of solutions to suit many applications:

- Incoming water
- Pre-RO
- General pre-filtration
- Particulate removal
- High temperatures
- Aggressive solvents
- Food grade compatibility
- High viscosity liquids
- Adhesives
- Paints and inks

Technology Developments

For over 50 years, string wound cartridges have been used as a basic form of filtration. Development in manufacturing processes and technologies have resulted in more advanced cartridges with improved performance characteristics and capabilities.



Spun Bonded Fibres

Advanced range of solutions for efficient prefiltration or particulate classification

- The most popular option for sediment reduction
- More precise filtration over wound technology
- Particulate is retained throughout the depth of the filter media
- Increased void volume (available space for particulate to be retained) maximises dirt holding capacity
- Suitable for applications from batch process to drinking water

Wound String Fibres

Ideal for high temperature and chemical compatibility applications

- Tried and tested technology
- Cost effective particulate filtration
- Multiple options of filter media and core material
- Suitable for high temperature and aggressive chemicals
- Wide micron rating options from 0.5 to 150 micron

Specialist Materials

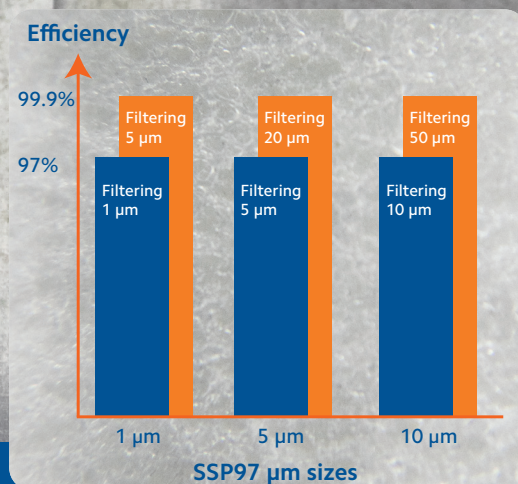
Ideal for high viscosity and high temperature applications

- Specially designed for more challenging applications
- Technologies applied to overcome high viscosity processes
- Products for superior performance in paint and ink applications
- Cartridges infused with antibacterial additives

High Efficiency Particle Removal



 **SPECTRUM**



TruDepth® High Efficiency Spun 1-10 micron

The SSP97 from SPECTRUM delivers exceptional 97% efficiency, with a low clean pressure drop at an affordable price. Finer fibres used in the construction create a more accurate level of filtration, whilst maintaining a high dirt holding capacity. The SSP97 with its melt-bonded exterior minimises any fibre migration, whilst its single, one piece, graded density and thermally bonded fibre construction made from 100% polypropylene introduces no binders, lubricants, or other additives in its manufacture.

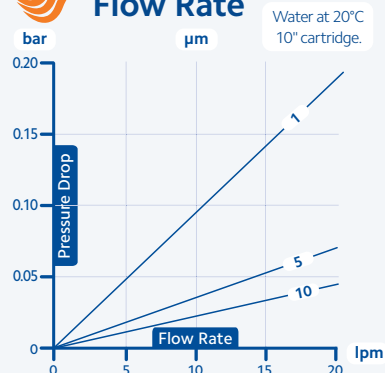


Key Features

- High efficiency filtration at an affordable price
- Available with welded endcaps for an improved seal
- Graded density construction, manufactured from 100% polypropylene



Flow Rate



Materials of Construction

Filter Media
Polypropylene

End-cap (Optional)
Polypropylene

Seal
Silicone (as standard,
when end-caps specified)



Configurations

Micron (µm)

1 5 10

Length (")

9 3/8 20 30 40

End-cap

EH ES FH MH MS XK

Seal

S = Silicone E = EPDM V = Viton®



Specification

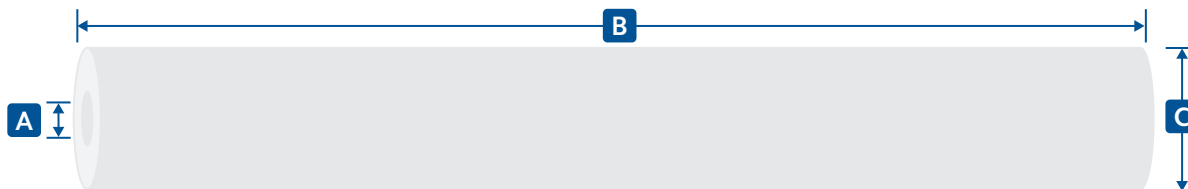
Efficiency
97%

Max. Operating Temperature
65°C

Max. Operating Pressure Differential
2 bar at 21°C



Dimensions



	Dimensions (mm)						
	A	B					C
Length (")		Blank	EH/MH	ES/ MS	FH	XK	
9 3/8	28	250	317	278	322	310	63
20	28	508	575	536	580	568	63
30	28	762	829	790	834	822	63
40	28	1016	1083	1044	1088	1076	63

Part Number

Code	Micron	Length	End-cap	Seal
SSP97 -	1, 5, 10	9 3/8, 20, 30, 40	Blank	Blank
			EH, ES, FH, MH, MS, XK	S, E, V

e.g. SSP97-5-20

