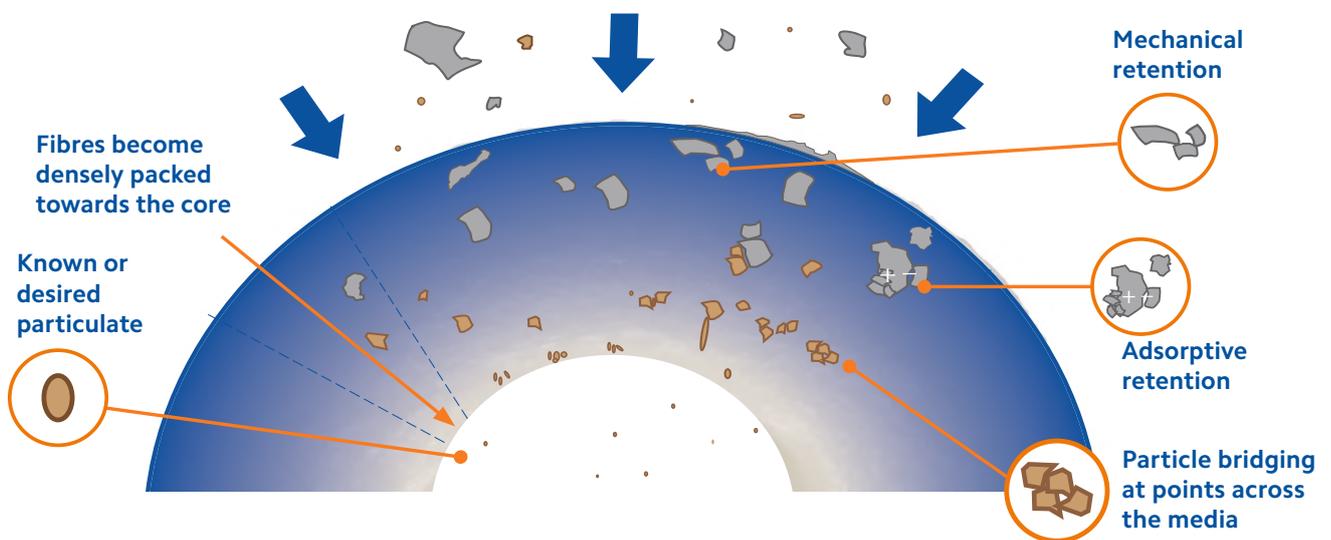


What is Depth Filtration?

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.



1 Million+
Supply Capabilities

Each year Filerder supplies the equivalent of more than 1 million 10" depth cartridges



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

Traditional Particle Removal



FDA
Compliant Materials



 **SPECTRUM**

Wound Polypropylene

0.5-150 micron

The most popular wound cartridge media by far, the SPECTRUM wound polypropylene offers broad chemical compatibility and good temperature resistance at low cost. With over 50 years proven experience and in a variety of micron sizes, across standard and large diameters, the SWP provides a basic filtration solution perfectly suited for first-stage and general particulate reduction. Whilst newer spun technologies offer higher efficiency and longer life cartridges, wounds still exceed filtration standards in many applications.

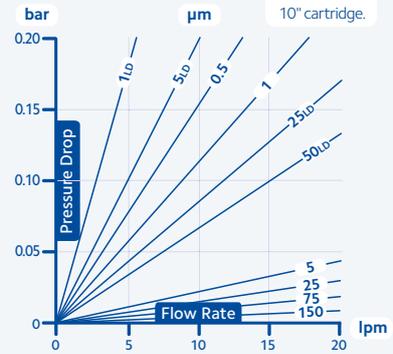


Key Features

- Tried and tested with over 50 years of experience
- Constructed using FDA compliant materials
- Broad chemical compatibility
- Good dirt holding capacity suitable for varying particulate sizes



Flow Rate



Materials of Construction

Filter Media
Polypropylene

Core
Polypropylene



Configurations

Micron (µm)

0.5	1	5	10	25	50	75
100	150					

Length (")

4 7/8	10	20	30	40
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Diameter

Regular	Large = LD
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Specification

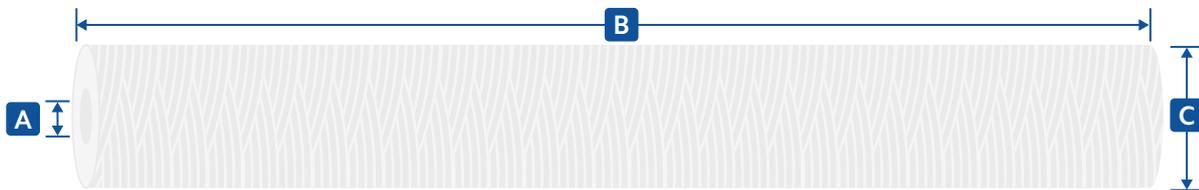
Efficiency
65%

Max. Operating Temperature
65°C

Max. Operating Pressure Differential
2 bar at 21°C



Dimensions



	Dimensions (mm)		
	A	B	C
4 7/8	28	124	63
10	28	254	63
20	28	508	63
30	28	762	63
40	28	1016	63
10LD	30	254	115
20LD	30	508	115

Part Number

Code	Micron	Length
SWP	0.5, 1, 5, 10, 25, 50, 75, 100, 150	4 7/8, 10, 20, 30, 40
	1, 5, 10, 25, 50, 75, 100	10LD, 20LD

e.g. SWP-25-10

