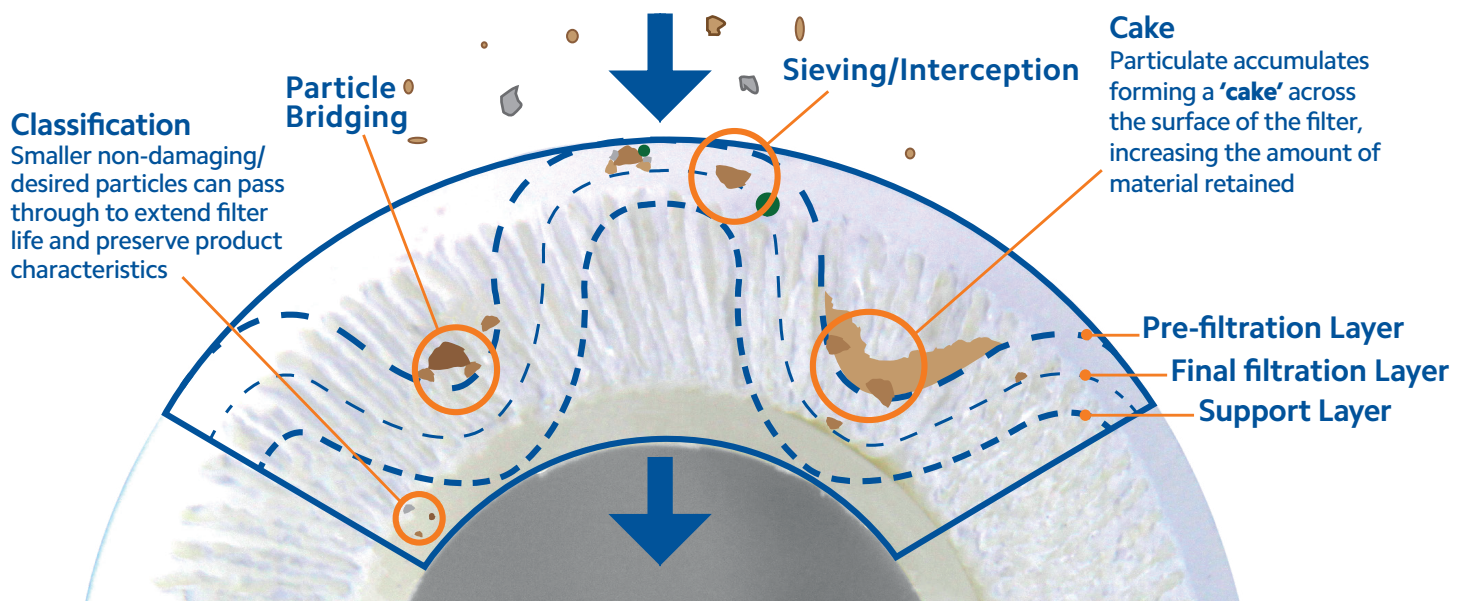


What is Surface Filtration?

Pleated filters are widely used as effective surface filtration due to their excellent flow rates and high efficiency.

Pleating dramatically increases available surface area whilst maintaining high dirt loading and low pressure drops. Much of the media used in pleated cartridges also has some depth characteristics, thanks to its multi-layer construction, thereby aiding particle retention and classification.

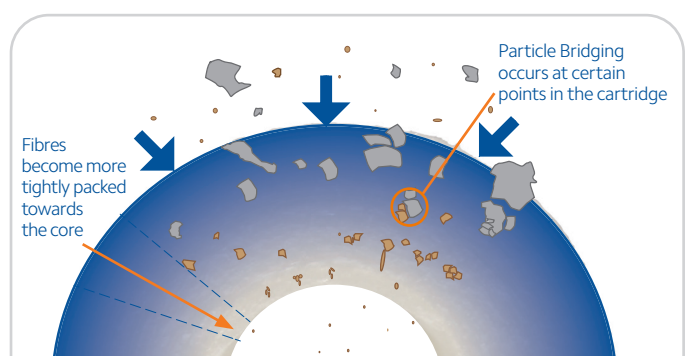


Surface Filtration Technology

Pleated filters are the ideal technology of choice over depth filtration for retention of known or uniformly sized particles.

The Standard (SPE) range of cartridges features a single layer media, which filters on the principles of direct interception and 'caking' where multiple particles accumulate across the media pore. Over time this leads to partial closure, which can increase efficiency and the chance to target finer particles.

The entire Premier range includes support and pre-filtration layers providing an element of depth characteristics. These layers retain larger particles, ensuring the specified micron rating of the cartridge can be utilised for exacting classification.



Depth Filtration Technology

The fibres become more tightly packed throughout a depth cartridge, progressively reducing the size of particles that can pass through the filter.

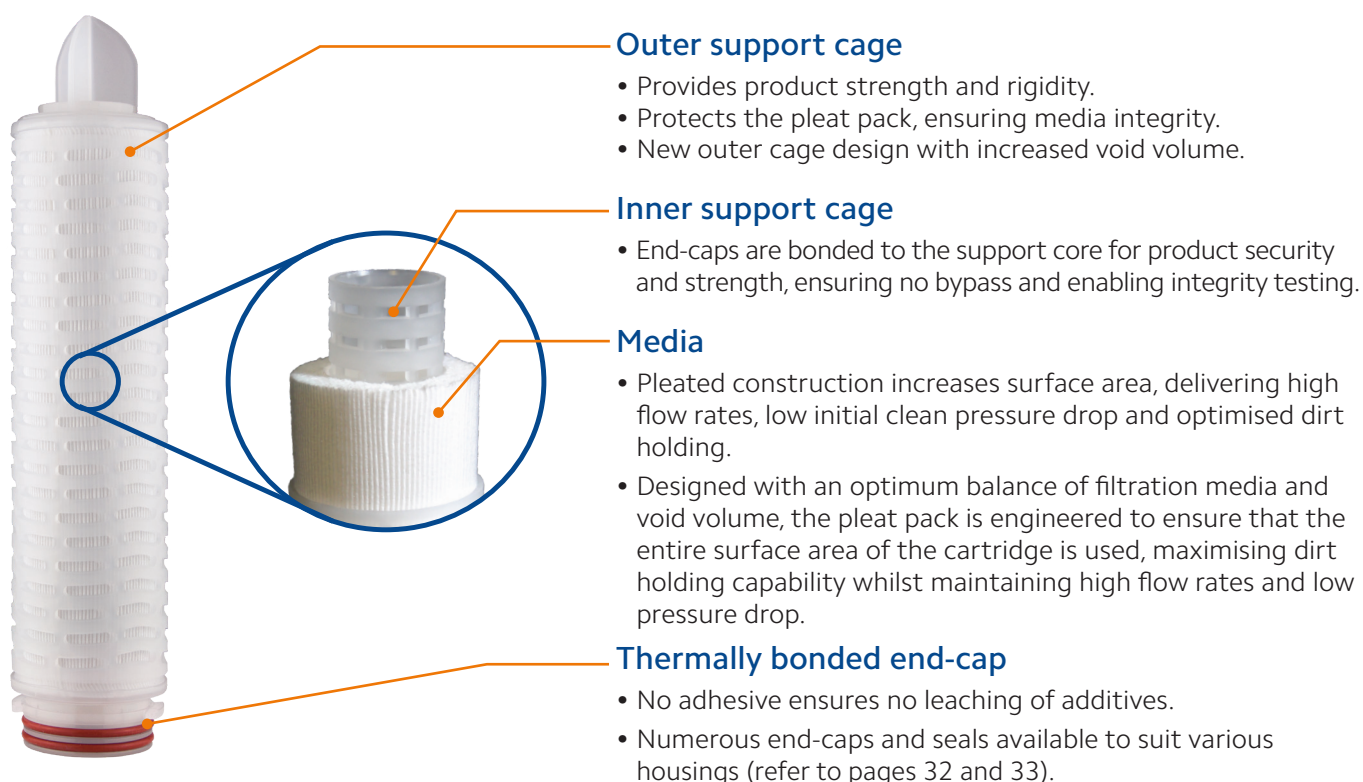
Advantage: Economic to produce.

Disadvantage: Higher pressure drop means a shorter service life compared to pleated cartridges.

Premier Pleat Construction

The Premier Pleat, Crypto and Bubble Point ranges are all constructed with a rigid inner and outer polypropylene core. Offering protection for the pleat pack, the cage also allows a variety of end-caps to be thermally bonded to the cartridge. This secure construction technique prevents bypass, creating a seal strong enough for repeated steam or chemical sterilisation as well as cartridge integrity testing.

Developments in 2018 see a new outer cage design that increases its void volume by over 10%. Whilst maintaining cartridge strength, increasing the open area allows a more uniform distribution of flow across the entire pleat pack ensuring low pressure drop and maximised dirt holding capacity.



Identification

Lot Coded

- Laser etched lot code on cartridge
- Traceable back to raw materials

QR Code

- Links directly to further information for each product

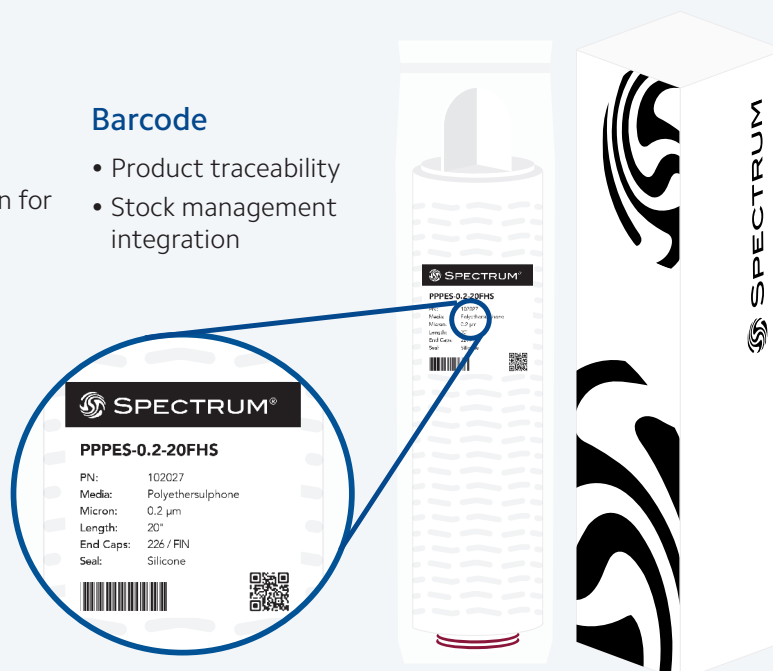
Barcode

- Product traceability
- Stock management integration

Packaging

Four Protective Layers

- Vacuum sealed inner packaging
- Tough outer polybag layer provides additional protection
- Individual product boxes
- Heavy duty outer carton



Hydrophobic Vent Filter



 **SPECTRUM**

Premier Pleat PTFE

0.1-1 micron

The hydrophobic properties of the PTFE membrane cartridge provide a solution to chemical, air, gas and vent filtration applications. The PTFE media and polypropylene support components present a broad chemical compatibility with the PTFE cartridge also suitable for applications where other membrane media degrade due to incompatibility.



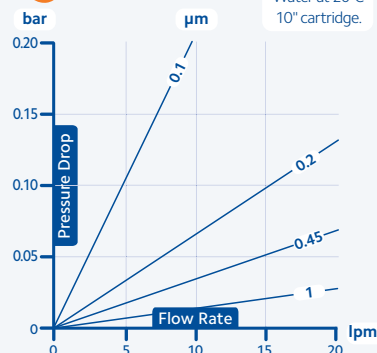
Key Features

- Highly hydrophobic media resists absorption of airborne liquids
- Compatible with most integrity testing procedures
- High chemical resistance against most solvents, acids and oxidising agents
- Suitable for air or gas filtration



Flow Rate

Water at 20°C
10" cartridge.



Materials of Construction

Filter Media

Polytetrafluoroethylene

Core

Polypropylene

Support Media

Polypropylene

Cage

Polypropylene

End-cap

Polypropylene
Polypropylene with
PSU ring insert (Z)
Polypropylene with
SS ring insert (Q)

Seal

Viton (as standard)



Configurations

Micron (µm)

0.1 0.2 0.45 1

Length (")

9¾ 10 20 30 40

End-cap

AA CG EG EH FG FH MG
MH QG ZH

Seal

T = Teflon® V = Viton®



Specification

Efficiency

99.98%

Max. Operating Temperature

82°C

Max. Sterilising Cycles

5 x 20 min cycles at 120°C. Requires compatible end-caps Q (222) and Z (226).

Surface Area

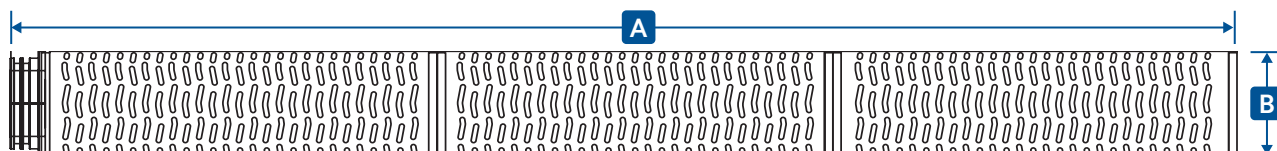
0.69 m² per 10"

Max. Operating Pressure Differential

6 bar at 21°C



Dimensions



	A (mm)					B (mm)
Length	AA	CG	EG/FG/MG/	QG	EH/FH/MH/ZH	
9¾"	248	-	-	-	-	70
10"	-	241	270	276	310	70
20"	508	506	520	526	560	70
30"	750	-	770	776	810	70
40"	1000	-	1020	1026	1060	70

Part Number

Code	Micron	Length	End-cap	Seal
PPPTFE	0.1, 0.2, 0.45, 1	9¾	AA	V
		10, 20, 30, 40	CG, EG, EH, FG, FH, MG, MH, QG, ZH	T, V

e.g. PPPTFE-0.1-20ZHV