

STERIpleat PES

PES Membrane Filter Cartridge

Bioburden reduction
in liquid filtration
applications. Integrity
testable media (P)

STERIpleat PES membrane cartridges use a naturally hydrophilic PES membrane for bacteria removal/reduction.

These filter cartridges are used for bioburden reduction in a range of beverage and pharmaceutical applications.

Typical applications

- Sterile filtration, WFI
- Pharmaceutical, Cosmetics, Fine chemicals, Electronics
- Point of use
- Beer
- Wine
- Beverages

Specification overview

Media:	Polyethersulphone membrane
Core, cage, end caps:	Polypropylene
Max. Temperature:	80°C
Available ratings:	0.03, 0.1, 0.2, 0.45, 0.65µm
Steam sterilisation:	Yes
Hot water sanitisation:	Yes
Chemical sanitisation:	Yes
Autoclavable:	Yes

Material compliance

- FDA approved components
- USP Class VI-121°C Plastics Test
- Tested for extractables
- BSE/TSE
- MEM Elution



Compatible Filter Housings



STERALine PBT (316SS)
Sanitary grade
Single or Multi Cartridge

Features

Media	Hydrophilic Polyethersulphone membrane
Microbial removal	Validated for bacterial removal (P Grade = Integrity Test Grade only)
Log reduction value	>7
Integrity	Each unit is preflushed with ultra pure water and integrity tested
Traceability	Fully traceable to raw material lot numbers. Part number laser etched on filter end cap
Controlled manufacturing	Manufactured in clean room environment
Applications	Food & beverage, pharmaceuticals, fine chemicals, electronics, cosmetics

Specifications

Media grades	S = Standard grade P = Integrity test grade
Micron ratings	0.03, 0.1, 0.2, 0.45, 0.65, 0.8, 1µm
Available lengths	Standard cartridge: 2", 5", 10", 20", 30", 40" (64, 125, 251, 510, 757, 1016mm) Junior cartridge: 2", 5" (63, 122mm)
Outer diameter	Standard cartridge: 68.50mm Junior cartridge: 56mm
Typical filtration area	Standard cartridge: 0.65 - 0.75m ² per 254mm (10" element)

Construction

Filtration media	Hydrophilic Polyethersulphone membrane
Support & drainage layer	Polypropylene
Core, cage & end fittings	Polypropylene (Optional reinforced PP end caps for sterilisation/sanitisation)
Gaskets & O-Rings	Ethylene Propylene, FEP encapsulated, Silicone, Viton, Nitrile, PTFE (DOE only)

Operating Temperature

Maximum continuous	80°C
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Sterilisation (With reinforced end cap option only)

Steam or autoclave	121°C for 60mins (240 cycles) 135°C for 30mins (25 cycles)
Hot water	90°C for 30mins (0.2bar Δp max)
Chemical sanitisation	Peroxyacetic acid, Hydrogen peroxide, Sodium Hypochlorite, Peracetic acid (at industry standard concentrations)

Material Compliance

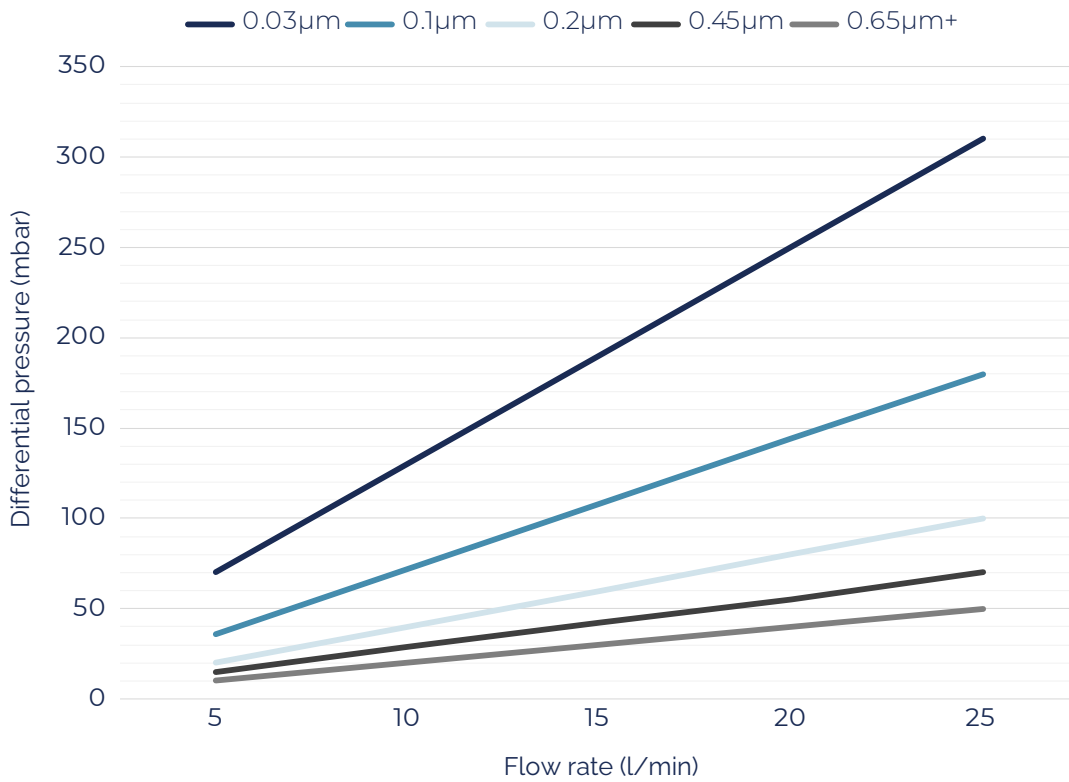
Material compliance	FDA approved components, USP Class VI-121°C Plastics Test, BSE/TSE, Tested for extractables
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End Caps



Flow curves

Clean water flow rates for a 10" STERIPleat PES filter cartridge*



*Lab test data. Please contact for specific application questions.

Model code

STERIPleat PES

1-Model	Product description
ST	STERIPleat
2-Code	Filtration Media
PES(S)	Hydrophilic Polyethersulphone Membrane (Standard grade)
PES(P)	Hydrophilic Polyethersulphone Membrane (Integrity test grade)
3-Code	Micron Rating
0.03	0.03
0.1	0.1
0.2	0.2
0.45	0.45
0.65	0.65
0.8	0.8
1	1
4-Code	End Fitting
0	Double open end (DOE)
3	Code 3 (2 x 222/flat)
7	Code 7 (2 x 226/spear)
8	Code 8 (2 x 222/spear)
J	Junior
	Other end caps available on request

5-Code	Length
2J	Junior 63mm
5J	Junior 122mm
2	64mm
5	125mm
10	251mm
20	510mm
30	757mm
40	1016mm
6-Code	Seal Material
E	Ethylene Propylene
F	FEP encapsulated Silicone
S	Silicone
V	Viton
B	Nitrile
T	DOE PTFE
7-Code	Option
N	None
G	Reinforced end cap (Select this option for sanitisation, sterilisation, autoclaving)

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