

Masterfilter PESE series

The Masterfilter *OptiPes* PESE series filter cartridges feature a unique single layer, asymmetric hydrophilic polyether sulphone membrane. This membrane is characterised by excellent throughput and higher durability in many applications such as biological filtration. Higher flow rates than any other sterilizing grade filter cartridge offers, so Masterfilter PESE filter assures thereby the most economic design of filtration systems.

Applications

- Bio-burden

Features and Benefits

- High dirt holding capacity
- Excellent flow rates and longer service life
- 100 % integrity tested
- Low adsorption

Materials of Construction

- Membrane: Highly asymmetric polyether sulfone
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings: Silicone, EPDM, Viton

Operating Parameters

- Max. differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Max. differential pressure reverse: 3.0 bar at 25 °C, 1.0 bar at 80 °C
- Steam sterilisation: 30 minutes at 135 °C, ≤ 0.3 bar per cycle
- Autoclave: 30 minutes at 130 °C
- Filtration area 10" module: 0.58 m²



Quality Assurance

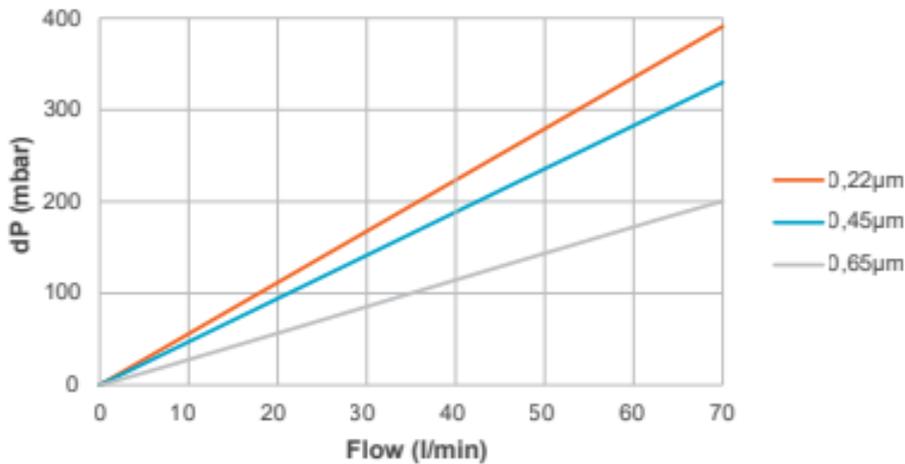
- Manufactured under ISO 9001:2015 certified quality management system and cGMP
- Cartridges is marked with unique serial number for identification and traceability
- All components meet the requirements of FDA 21 CFR and EU No. 1935/2004 and EU10/2011
- Comply with FDA 21CFR177-182

Biological Standards

- Component materials toxicity meets the USP <88> tests for Class VI-121 °C and ISO 10993 equivalents
- Bacterial Endotoxin testing as per LAL test determined by USP <88> for plastic class IV-121 °C ≤ 0.25 EU/mL
- No fiber releasing, comply with 21CFR, 210.3(b)(5)(6) and 211.72
- Comply with the relevant requirements of EU 1935/2004 and EU directive 2002/72/EC

Flow Rate Characteristics

Flow rate



Note: 10" cartridge tested with water @20°C, 1,005 cP (typical flow rate)

Part Numbers

PESE 020 - 30 HSF - S

Code	Removal rating [µm]
020	0.2
045	0.45
065	0.65
120	1.2

Code	Length	
	[mm]	[inch]
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Sartorius Code 28
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
HSC	226 O-ring/flat (Code 2)

Code	O-Ring
S	Silicone
E	EPDM
V	Viton

e.g. part number: PESE-020-30-HSF-S

PESE filter, 0.2 µm, 30" Length, End caps Code 7, Silicone O-rings