

# SteriPure-P Polyethersulfone Pleated cartridge filter

» An Absolute Filter with Longer Service Time and High Flow Rate



## Description

SteriPure-P cartridge filters have a builtin pre-filter membrane in front of the endfilter membrane. The unique anisotropic Polyethersulfone pre-filter membrane reduces the plugging rate of endfilter membrane effectively. The optimized SteriPure-P cartridge filters can provide longer service time than generic cartridge filters in most applications.

## » Reliability

From raw materials purchase, transport to production and storage, all operations follow ISO 9001 quality management system. SteriPure-P manufactured, tested and packaged in a cleanroom to ensure product cleanliness. SteriPure-P cartridge filters are 100% integrity tested before they go out. A validation guide for compliance with regulatory requirements is available.

## » Compatibility

SteriPure-P cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of SteriPure-P, include of Polyethersulfone, Polypropylene and Silicone/EPDM, provide broad chemical compatibility from pH 1 to pH14 and low extractable levels at high temperature.

## Specifications

### » Materials of Construction

Pre-Filter membrane	Polyethersulfone
End-Filter membrane	Polyethersulfone
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene
Adaptor	Polypropylene
O-rings	Silicone/EPDM

### » Operating Parameters

Maximum Operating Temperature	1.9bar@82°C
Maximum Differential Pressure (forward)	5.2bar@25°C
Maximum Differential Pressure (reverse)	2.1 bar@25°C
Recommended replacement pressure	2.4bar

### » Filter Dimensions

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.60m <sup>2</sup>

### » Safety

Bacterial Endotoxin	≤0.25EU/ml
Extractable	≤40mg/10inches

### » Sterilizable

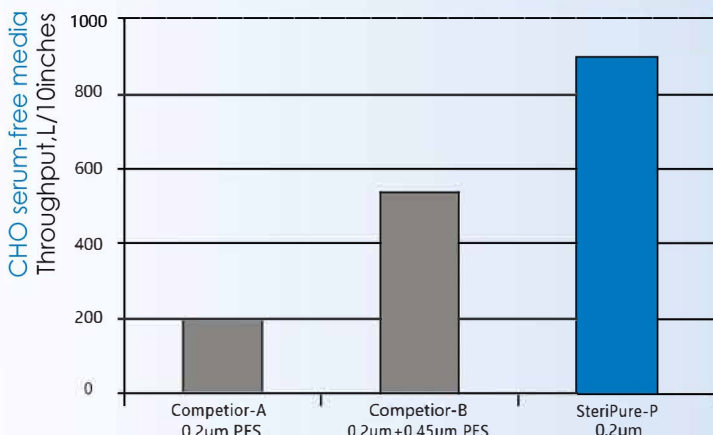
Autoclave	124°C,30min.150cycles
	134°C,30min.100cycles
Steam In-Place	124°C,30min.150cycles pressure drop ≤0.5bar
	134°C,30min.100cycles pressure drop ≤0.5bar

## » Economy

SteriPure-P cartridge filters take use of the asymmetric, hydrophilic, high porosity polyethersulfone membrane as pre-filter and end-filter. SteriPure-P cartridge filters are specifically designed to deal with broad variety of contaminants in various applications. SteriPure-P cartridge filters can provide the highest process efficiency and minimized filtration costs.

## » Regulatory Compliance

ASTM D6394 SP0112  
FDA 21 CFR 177.1655  
ISO 10993-Part 1, 5  
EN 285:2006+A2:2009.  
Regulation (EC) No 1935/2004



## Longer Service Time and Excellent Cost-Effective

The builtin pre-filter membrane significantly increases the total throughput and stability of flow rate. In most time of your filtration process, SteriPure-P cartridge filters can provide high flow rate and low pressure drop due to the high asymmetric pre-filter membrane and controlled asymmetric end-filter membrane. SteriPure-P can effectively reduce the operating costs of filtration system, the cost of replacement filters and downtime in many applications.

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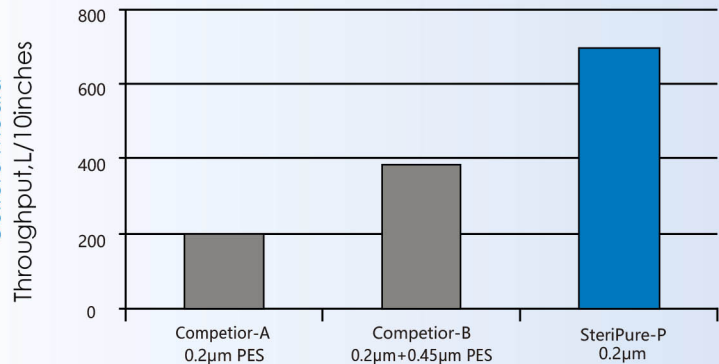
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## Application

- Peptone supplemented culture media
- Serum containing cell culture media
- Ophthalmic solutions
- Buffers
- Ultrapure water
- High purity chemicals
- Wine
- Beer

Soy Peptone Supplemented Culture Media



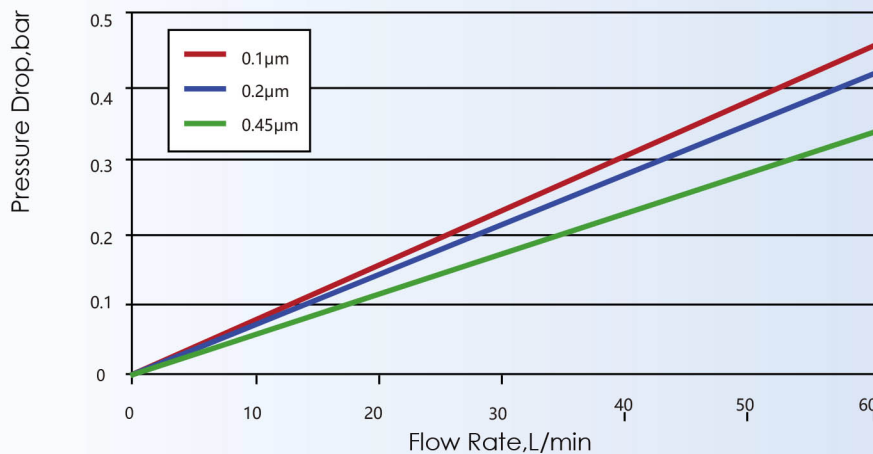
## Suitable for Severe High Temperature Sterilizing

SteriPure-P can ensure integrity at temperature up to 134°C and pressure drop up to 0.5bar due to the high strength of Polyethersulfone membrane and enhanced Polypropylene structure. SteriPure-P can provide excellent filtration service for your process.

## » Integrity Data

Pore size	Bubble Point	Diffusion	Challenge Microorganisms	LRV
0.10µm	≥4.2bar	≤16ml/min@3.2bar	Acholeplasma laidlawii (ATCC 23206)	7
0.20µm	≥3.5bar	≤16ml/min@2.6bar	Brevundimonas diminuta (ATCC 19146)	7
0.45µm	≥1.8bar	≤16ml/min@1.4bar	Serratia Marcescens (ATCC 14756)	7

## Flow Rate-Pressure Drop



## Order Information

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPESP: Polyethersulfone membrane	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	010 = 0.1µm 020 = 0.22µm 045 = 0.45µm	0 = DOE 2 = 222/Flat 3 = 222/Fin 4 = 222/Fin with 316L SS insert 5 = 226/Fin with 316L SS insert 6 = 226/Fin 7 = 226/Flat	S = Silicone E = EPDM	Blank = PP S = 316L Stainless Steel P = Polysulfone