



# Sartoguard PES

## Membrane Prefiltration Filter Cartridges



### Specifications

#### Materials

Prefilter Membrane	PES, asymmetric
Endfilter Membrane	PES, asymmetric
Support fleece	Polypropylene
Core	Polypropylene
End caps	Polypropylene
O-Rings	Silicone

#### Pore Size Combinations

0.8 µm + 0.1 µm nominally  
1.2 µm + 0.2 µm nominally

#### Available Sizes | Filtration Area

Size 1	10"	0.8 m <sup>2</sup>	8.6 ft <sup>2</sup>
Size 2	20"	1.6 m <sup>2</sup>	17.2 ft <sup>2</sup>
Size 3	30"	2.4 m <sup>2</sup>	25.8 ft <sup>2</sup>

#### Available Adapters

25

#### Operating Parameters

Max. allowable	5 bar	72.5 psi	at 20 °C
Differential pressure	2 bar	29 psi	at 80 °C
Max. allowable back Pressure	2 bar	29 psi	at 20 °C

### Description

Sartoguard PES filter cartridges are especially designed for effective bioburden control and reliable removal of particles from a broad range of fluid streams. They provide the finest, most efficient and reliable performance for critical prefiltration applications. They can be used for protection of Mycoplasma retentive or sterilizing grade filters. They allow for downsizing of filtration systems and cost saving in applications where the use of validated sterilizing grade filters is not required, but reliable bioburden and turbidity reduction is.

### Applications

Typical applications of Sartoguard PES filter cartridges include prefiltration of:

- Buffers
- Downstream Intermediates (before and after UF | DF and chromatography steps)
- Clarified cell culture harvest
- Cell Culture Media
- Aseptically filled Small Volume Parenterals (SVP)

### Economy

Sartoguard PES filter cartridges feature a unique heterogeneous double layer membrane construction in combination with an increased filtration area of 0.8 m<sup>2</sup>/10" cartridge. By providing outstanding total throughput and flow rate performance, they ensure highest process efficiency, minimized overall filtration costs and short filtration cycle times.

### Reliable Retention

Sartoguard PES filters are available with 0.1 µm and 0.2 µm nominal retention rating. The 0.1 µm rated filters typically provide a LRV of 6 per cm<sup>2</sup> filtration area for *Brevundimonas Diminuta*, while the 0.2 µm rated filters typically provide a LRV of 6 per cm<sup>2</sup> filtration area for *Serratia Marcescens*.

### Compatibility

Sartoguard PES filter elements are designed for broad chemical compatibility from pH 1 to pH 14 and low extractable levels. They are compatible with multiple in line steam sterilization cycles up to 134 °C.

### Quality & Security

Sartoguard PES filter cartridges are individually tested for integrity during production. The integrity of the filters can be verified onsite before and after use by a diffusion or bubble-point test.

### Scalability

Sartoguard PES filter elements are available in a broad range of sizes and formats to provide linear scale-up from R&D to process scale.

### Documentation

Sartoguard PES cartridges are designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System. A Validation Guide is available for compliance with regulatory requirements.

## Specifications

### Extractables

Sartoguard PES filter cartridges meet, or exceed the requirements for WFI quality standards set by the current USP.

### Regulatory Compliance

Individually integrity tested during production

Onside integrity testable by diffusion or bubble-point test

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

### Sterilization

In-Line Steam Sterilization:  
134 °C, 20 min. at max differential pressure of 0.5 bar

Autoclaving:  
134°C, 2 bar, 30 min

### Sterilization Cycles

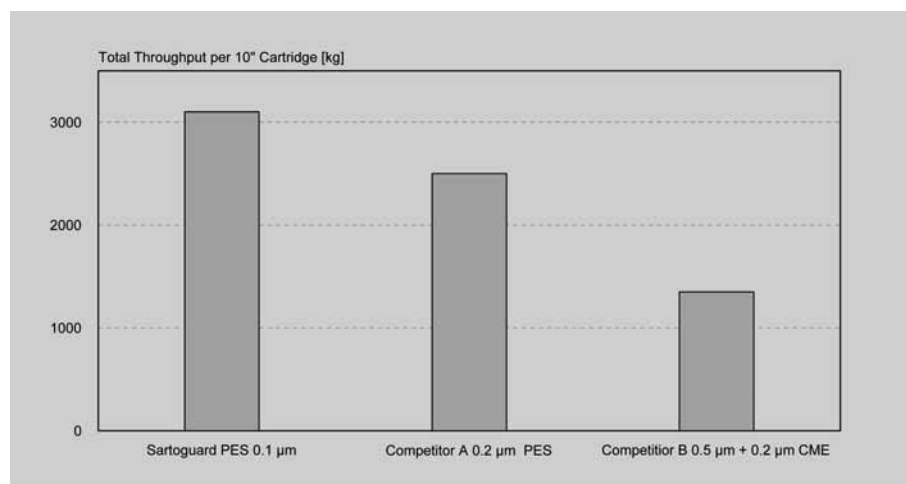
In-Line Sterilization     Min. 25  
Autoclaving                 Min. 25

### Technical References

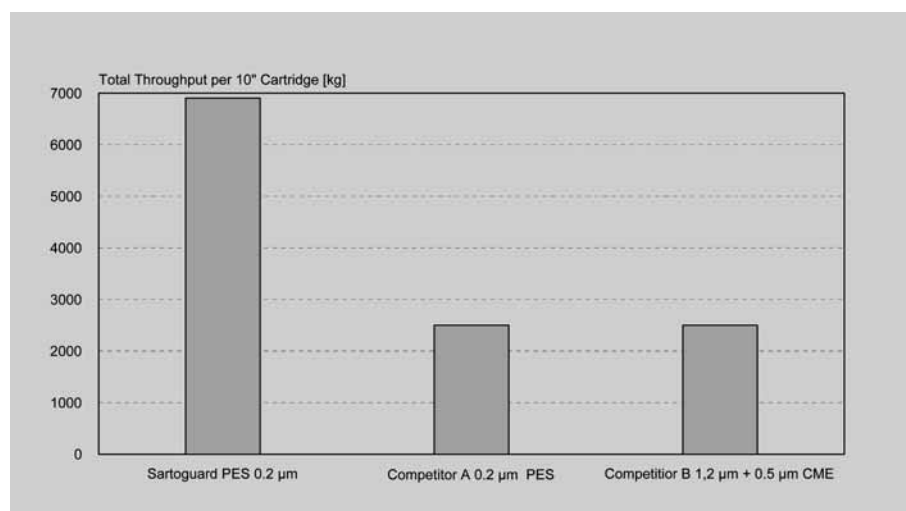
### Validation Guide:

SPK5782-e

## Soy Peptone Supplemented Cell Culture Media



## Soy Peptone Supplemented Cell Culture Media



## Order Codes

Cartridges	Pore Size Nominally [µm]	Test Pressure		Max. Diffusion [ml/min]	Min. Bubble Point	
		[bar]	[psig]		[bar]	[psig]
5472558G1	0.1 µm	1.5	22	25	2.8	40.5
5472558G2	0.1 µm	1.5	22	50	2.8	40.5
5472558G3	0.1 µm	1.5	22	75	2.8	40.5
5472507F1	0.2 µm	1.2	17,5	18	1.8	26
5472507F2	0.2 µm	1.2	17,5	36	1.8	26
5472507F3	0.2 µm	1.2	17,5	54	1.8	26

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