



Sartoguard PES

Membrane Prefiltration Filter Cartridges



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 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 m²/10" 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 cm² filtration area for Brevundimonas Diminuta, while the 0.2 µm rated filters typically provide a LRV of 6 per cm² filtration area for Serratia Marcescens.

Compatibility

Sartoguard PES filter cartridges 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 cartridges 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

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 ² | 8.6 ft ² |
| Size 2 | 20" | 1.6 m ² | 17.2 ft ² |
| Size 3 | 30" | 2.4 m ² | 25.8 ft ² |

Available Adapters

25

Operating Parameters

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

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

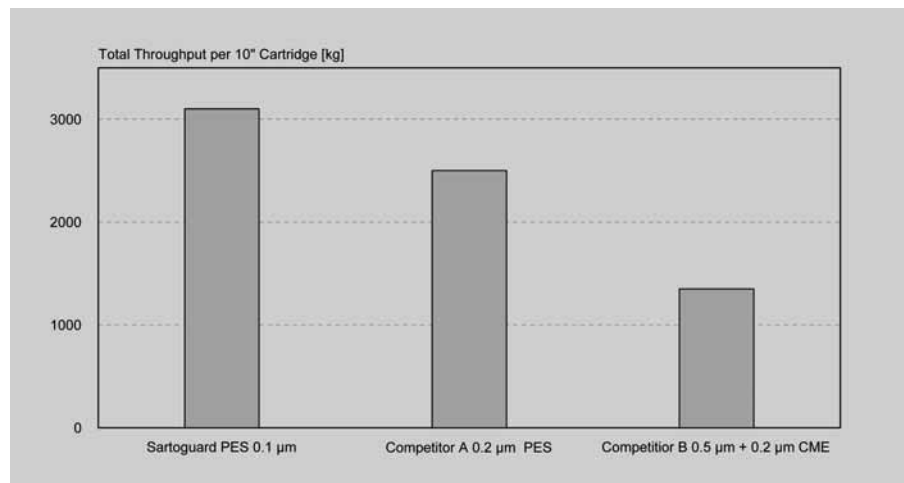
In-Line Sterilization Min. 25
Autoclaving Min. 25

Technical References

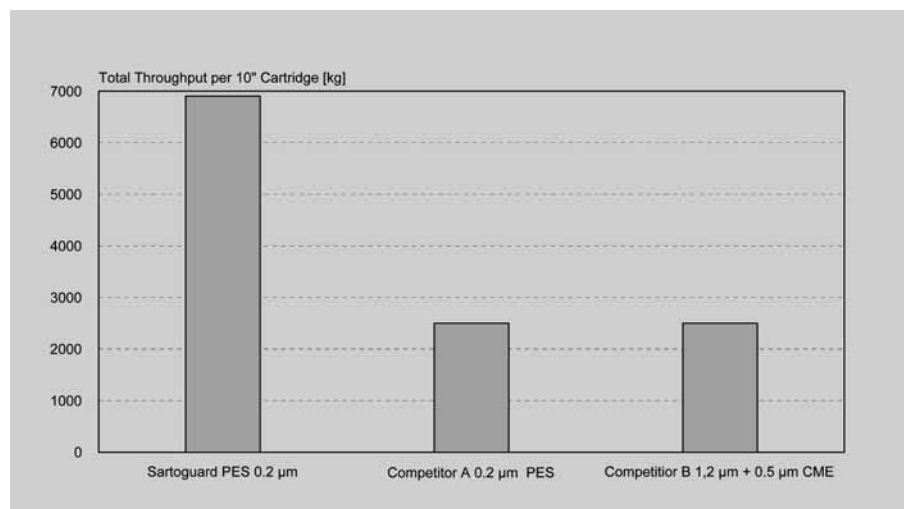
Validation Guide:

SPK5782-e

Soy Peptone Supplemented Cell Culture Media



Soy Peptone Supplemented Cell Culture Media



Order Codes

| Cartridges | Pore Size Nominally [µm] | Pack Size [pieces] | Test Pressure [bar psi] | Max. Diffusion [ml/min] | Min. Bubble Point [bar psi] |
|------------|--------------------------|--------------------|---------------------------|-------------------------|-------------------------------|
| 5472558G1 | 0.1 µm | 1 | 1.5 22 | 25 | 2.8 40.5 |
| 5472558G2 | 0.1 µm | 1 | 1.5 22 | 50 | 2.8 40.5 |
| 5472558G3 | 0.1 µm | 1 | 1.5 22 | 75 | 2.8 40.5 |
| 5472507F1 | 0.2 µm | 1 | 1.2 17,5 | 18 | 1.8 26 |
| 5472507F2 | 0.2 µm | 1 | 1.2 17,5 | 36 | 1.8 26 |
| 5472507F3 | 0.2 µm | 1 | 1.2 17,5 | 54 | 1.8 26 |

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