



Sartopore® 2 XLM 0.1 µm

Sterilizing Grade and Mycoplasma Retentive 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 Combination

0.2 µm + 0.1 µm

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:	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

Sartopore® 2 XLM 0.1 µm rated filter cartridges are especially designed for validated sterilizing grade filtration and reliable Mycoplasma removal for modern cell culture media. The unique, highly asymmetric, heterogeneous double layer PES membranes provide outstanding total throughput and flow rate performance reducing filter costs and footprint of filtration systems significantly.

Applications

Typical applications of Sartopore® 2 XLM filter cartridges include sterilizing grade filtration and Mycoplasma removal from:

- Plant peptone, soy or yeast supplemented cell culture media
- Serum containing cell culture media
- Cell culture media components
- All other cell culture media used in biotech manufacturing

Any other application requiring sub 0.2 µm filtration for enhanced sterility assurance.

Economy

The build in prefilter layer is specifically designed to protect the final 0.1 µm membrane layer in cell culture media filtration applications. The optimized membrane combination together with the exceptionally high effective filtration of 0.8 m²/10" filter element allow for > 50% more performance compared to existing 0.1 µm rated filter elements, thus ensuring lowest filtration costs per liter, minimized filtration times and smallest footprint of the filtration system.

Security

Sartopore® 2 XLM cartridges are validated for sterilizing grade filtration according to ASTM F 838-05 standard and for reliable Mycoplasma retention with a LRV of 7/cm² filtration area. They provide the highest security level to avoid unwanted microbial contamination.

Compatibility

The PES membrane of Sartopore® 2 XLM cartridges provides broad chemical compatibility from pH 1 to pH 14, low extractable levels and low unspecific binding for growth factors. They are compatible with multiple in line steam sterilization cycles up to 134°C.

Scalability

Sartopore® 2 XLM filter elements are available in a broad range of sizes and formats to provide linear scale-up from R&D to process scale.

Quality Control

Each individual element is tested for integrity by Diffusion-Test prior to be released assuring absolute reliability.

Documentation

Sartopore® 2 XLM 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.

По вопросам продаж и поддержки обращайтесь:

Астана+7(7172)727-132, Волгоград(844)278-03-48, Воронеж(473)204-51-73, Екатеринбург(343)384-55-89,
Казань(843)206-01-48, Краснодар(861)203-40-90, Красноярск(391)204-63-61, Москва(495)268-04-70,
Нижний Новгород(831)429-08-12, Новосибирск(383)227-86-73, Ростов-на-Дону(863)308-18-15, Самара(846)206-03-16,
Санкт-Петербург(812)309-46-40, Саратов(845)249-38-78, Уфа(347)229-48-12

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Specifications

Extractables

Sartopore® 2 XLM 0.1 µm rated filter cartridges meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

Individually integrity tested

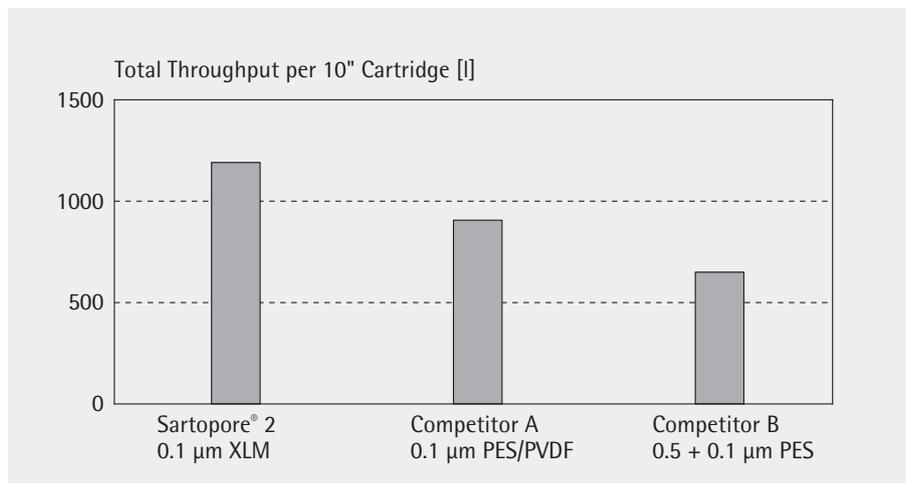
Integrity test correlated to HIMA/ASTM F 838-05 Bacteria Challenge Test

Non pyrogenic according to USP Bacterial Endotoxins

Pass USP Plastic Class VI Test

Non fiber releasing according to 21 CFR

Plant Peptone Supplemented Cell Culture Media



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

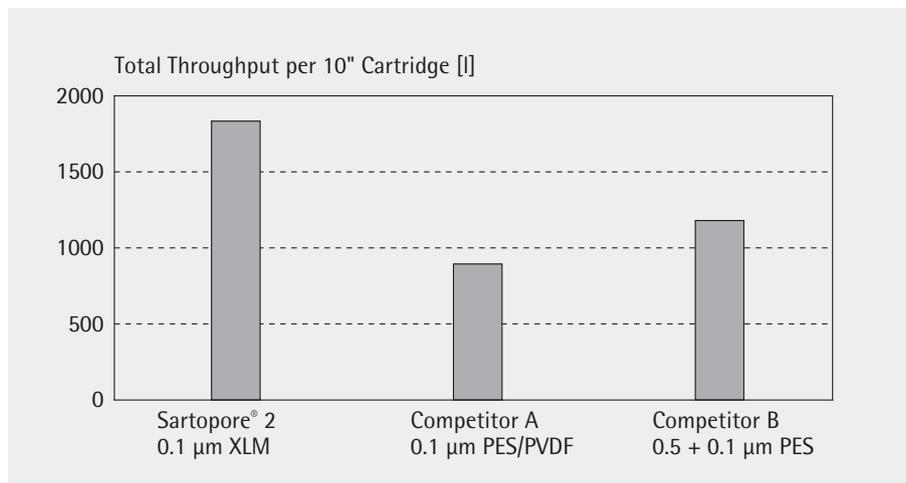
In-Line Sterilization: Min. 25
Autoclaving: Min. 25

Technical References

Validation Guide:

SPK5793-e

Soy Supplemented Cell Culture Media



Order Codes

Cartridges	Pore Size [µm]	Pack Size [Pieces]	Test Pressure [bar psi]	Max. Diffusion [ml/min]
5442558M1	0.2 + 0.1	1	4.0 58	39
5442558M2	0.2 + 0.1	1	4.0 58	78
5442558M3	0.2 + 0.1	1	4.0 58	117

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