

Sartoclean CA

Particle & Bioburden Reduction Filter Cartridges



Description

Sartoclean CA filter cartridges are the ideal choice for a broad range of prefiltration applications in the biopharmaceutical industry from particle removal to bioburden reduction. They offer a defined retention performance by size exclusion. The use of Sartoclean CA prefilters avoids early blockage of downstream sterilizing grade membrane filters and contributes significantly to an economical design of your filtration system.

Applications

Featuring ultra low binding cellulose acetate membranes, Sartoclean CA filters are typically used for membrane prefiltration of:

- Plasma Fractions
- Vaccines
- MAB
- Diagnostics
- Purified Protein Solutions
- Biological Fluids
- Solutions containing Preservatives

High Product Yield

Throughout the years the cellulose acetate membranes of the Sartoclean CA filters have proven to be the membrane material with lowest unspecific binding capabilities, assuring highest protein yields and rapid preservative recovery enhancing your process efficiency.

Performance

Sartoclean CA filters with heterogeneous double layer construction (3.0 | 0.8 µm & 0.8 | 0.65 µm) offer highest total throughput performance due to the "build-in prefiltration" to avoid filter change during filtration and assure economical system design. Single layer Sartoclean CA filters (0.45 µm & 0.2 µm) offer highest flow rates for microbe retentive filtration.

Mechanical Strength

The reinforcement of the membrane results in increased mechanical and thermal resistance, especially of interest in applications with high differential pressure and with repeated steam sterilization of the filters.

Flexibility

Sartoclean CA filters are available as standard filter cartridges, mini cartridges, capsules and MaxiCaps offering broadest choice for scale-up and easiest adoption to varying process volumes.

Documentation

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

Specifications

Materials

Prefilter Membrane:	Cellulose Acetate
Endfilter Membrane:	Cellulose Acetate
Support Fleece:	Polypropylene
Core:	Polypropylene
End Caps:	Polypropylene
O-Rings:	Silicone (optional EPDM or Viton)

Pore Sizes

3.0 + 0.8 µm
0.8 + 0.65 µm
0.45 µm
0.2 µm

Available Sizes | Filtration Area

Cartridges | MaxiCaps

Size 1	10"	0.74 m ² 7.4 ft ²
Size 2	20"	1.5 m ² 15 ft ²
Size 3	30"	2.2 m ² 22 ft ²

Capsules | Mini Cartridges

Size 7	0.08 m ² 0.8 ft ²
Size 8	0.16 m ² 1.6 ft ²
Size 9	0.3 m ² 3 ft ²
Size 0	0.6 m ² 6 ft ² (only Capsules)

Available Adapters Cartridges

21, 25, 27, 28

Available Adapter Mini Cartridges

15

Available Connectors Capsules | MaxiCaps

SS, SO, OO

Operating Parameters

Max. Allowable Differential Pressure:	5 bar 75 psi at 20 °C (Cartridges)
	4 bar 58 psi at 20 °C (Capsules)
	3 bar 43.5 psi at 20 °C (MaxiCaps)
	2 bar 29 psi at 80 °C (Cartridges and Capsules)
Max. Allowable Back Pressure:	2 bar 29 psi at 20 °C

Membrane Filter Cartridges

Specifications

Extractables

Sartoclean CA cartridges, MaxiCaps and Capsules meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

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 | 7 psi

Note:

Capsules and MaxiCaps cannot be in-line steam sterilized!

Autoclaving

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

In-Line Sterilization: Min. 25

(only cartridges)

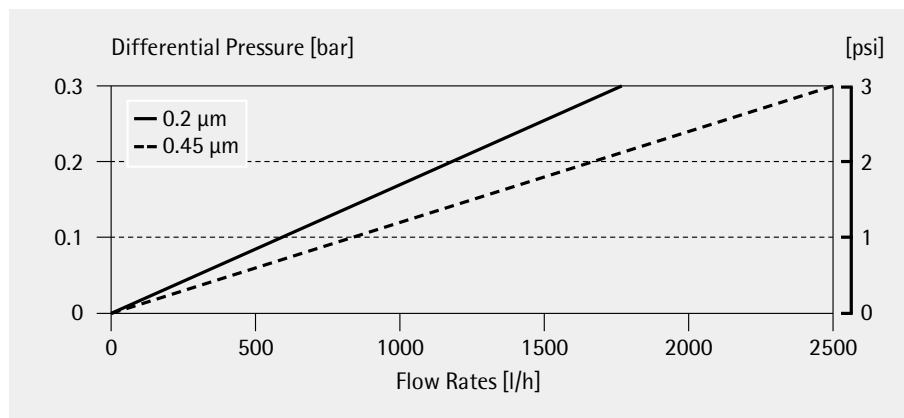
Autoclaving: Min. 25

Technical References

Validation Guide:

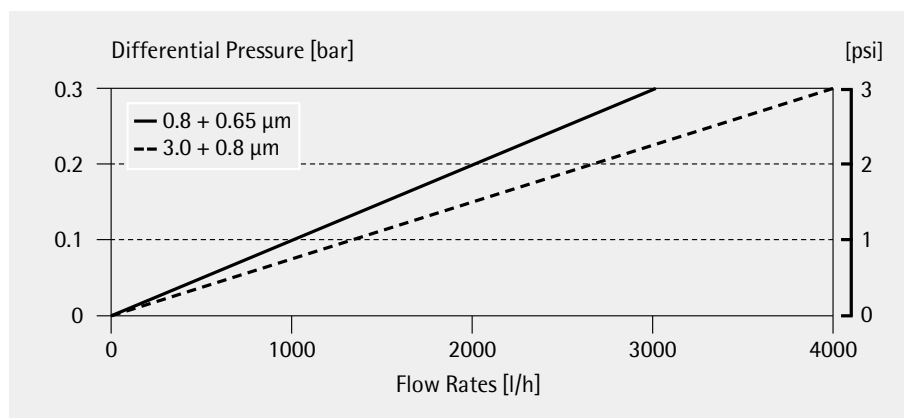
SPK5718-e

Water Flow Rates for Sartoclean CA 10" cartridges



Standardized at 20 °C

Water Flow Rates for Sartoclean CA 10" cartridges



Standardized at 20 °C

Order Information

Order Code	Pore Size [µm]
Cartridges	
562**07AX	0.2
562**06AX	0.45
562**05GX	0.65
562**04EX	0.8
MaxiCaps	
5621305GX--**	0.65
5621304EX--**	0.8
Capsules	
5621307AX--**--#	0.2
5621306AX--**--#	0.45
5621305GX--**--#	0.65
5621304EX--**--#	0.8
Mini-Cartridges	
5621505GX-----B	0.65
5621504EX-----B	0.8

Sartorius AG
 Weender Landstrasse 94-108
 37075 Goettingen, Germany
 Phone +49.551.308.0
 Fax +49.551.308.3289
 www.sartorius.com
 USA +1.631.2544249
 UK +44.1372.737100
 France +33.1.69192100
 Italy +39.055.634041
 Spain +34.91.3586100
 Japan +81.3.33293366

Specifications subject to change without notice.
 Printed and copyrighted by Sartorius - W/sart-000 - G
 Publication No.: SPK2020-e03116
 Order No.: 85030-507-11