



# 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

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

#### Mini Cartridges

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

#### Available Adapters Cartridges

21, 25, 27, 28

#### Available Adapter Mini Cartridges

15

#### Operating Parameters

Max. Allowable Differential Pressure	5 bar   75 psi at 20 °C
	2 bar   29 psi at 80 °C
Max. Allowable Back Pressure	2 bar   29 psi at 20 °C

## Specifications

### Extractables

Sartoclean CA cartridges 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

#### Autoclaving

134 °C, 2 bar | 29 psi, 30 min

#### Sterilization Cycles

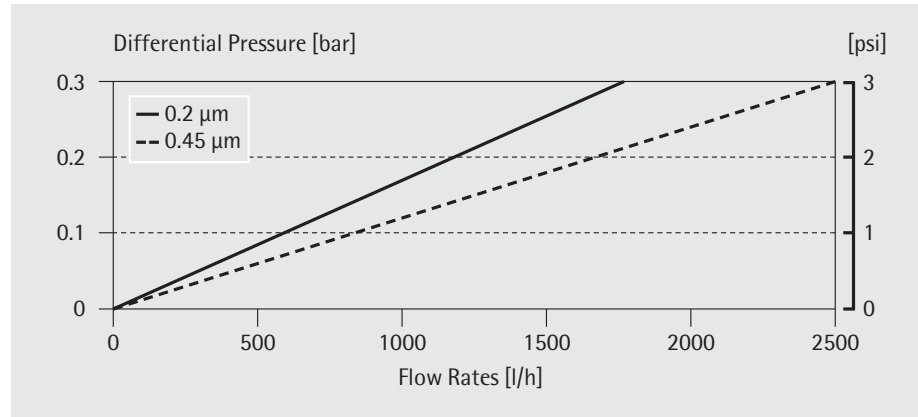
In-Line Sterilization: Min. 25  
Autoclaving: Min. 25

### Technical References

#### Validation Guide:

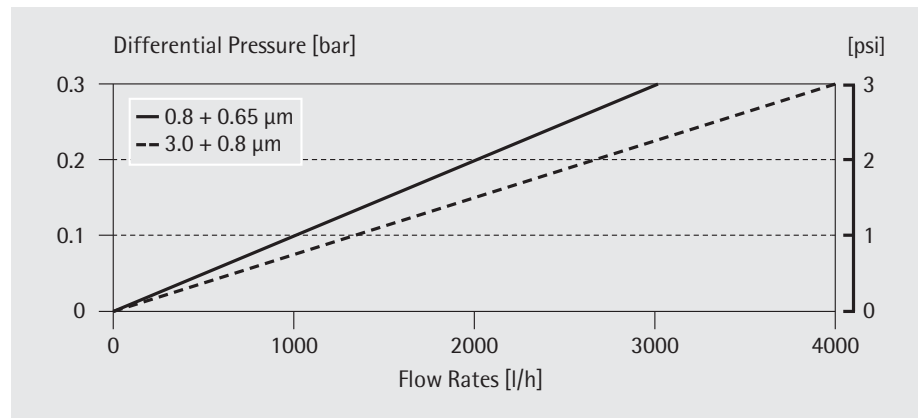
SPK5718-e

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]	Pack Size [Pieces]
<b>Cartridges</b>		
562**07AX	0.2	1
562**06AX	0.45	1
562**05GX	0.65	1
562**04EX	0.8	1
<b>Mini Cartridges</b>		
5621505GX-----B	0.65	5
5621504EX-----B	0.8	5

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Publication No.: SPK2020-e08047  
Order No.: 85030-507-11