

# Sartoclean® CA

Particle & Bioburden Reduction Filter Cartridges



sartorius stedim  
biotech

Membrane 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, MidiCaps® 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

### Effective Filtration Area | Single Layer

#### Cartridges

|        |     |   |
|--------|-----|---|
| Size 1 | 10" | 0.74 m <sup>2</sup>   8.0 ft <sup>2</sup> |
| Size 2 | 20" | 1.5 m <sup>2</sup>   16.1 ft <sup>2</sup> |
| Size 3 | 30" | 2.2 m <sup>2</sup>   23.7 ft <sup>2</sup> |

#### Mini Cartridges

|        |   |
|--------|---|
| Size 7 | 0.08 m <sup>2</sup>   0.9 ft <sup>2</sup> |
| Size 8 | 0.16 m <sup>2</sup>   1.7 ft <sup>2</sup> |
| Size 9 | 0.3 m <sup>2</sup>   3.2 ft <sup>2</sup>  |
| Size 0 | 0.6 m <sup>2</sup>   6.5 ft <sup>2</sup>  |

### Effective Filtration Area | Double Layer

#### Cartridges

|        |     |   |
|--------|-----|---|
| Size 1 | 10" | 0.6 m <sup>2</sup>   6.5 ft <sup>2</sup>  |
| Size 2 | 20" | 1.2 m <sup>2</sup>   12.8 ft <sup>2</sup> |
| Size 3 | 30" | 1.8 m <sup>2</sup>   19.3 ft <sup>2</sup> |

#### Mini Cartridges

|        |   |
|--------|---|
| Size 7 | 0.05 m <sup>2</sup>   0.5 ft <sup>2</sup> |
| Size 8 | 0.1 m <sup>2</sup>   1 ft <sup>2</sup>    |
| Size 9 | 0.2 m <sup>2</sup>   2 ft <sup>2</sup>    |
| Size 0 | 0.45 m <sup>2</sup>   5 ft <sup>2</sup>   |

### Available Adapters Cartridges

21, 25, 27, 28

### Available Adapter Mini Cartridges

15

### Operating Parameters

|                                      |  |
|--------------------------------------|--|
| Max. Allowable Differential Pressure | 5 bar   72.5 psi at 20°C<br>2 bar   29 psi at 80°C |
| Max. Allowable Back Pressure         | 2 bar   29 psi at 20°C                             |

## 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

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

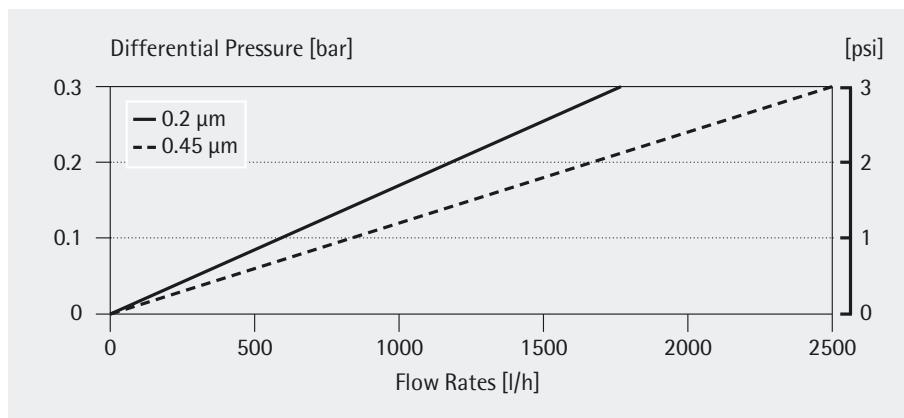
Autoclaving: Min. 25

#### Technical References

Validation Guide:

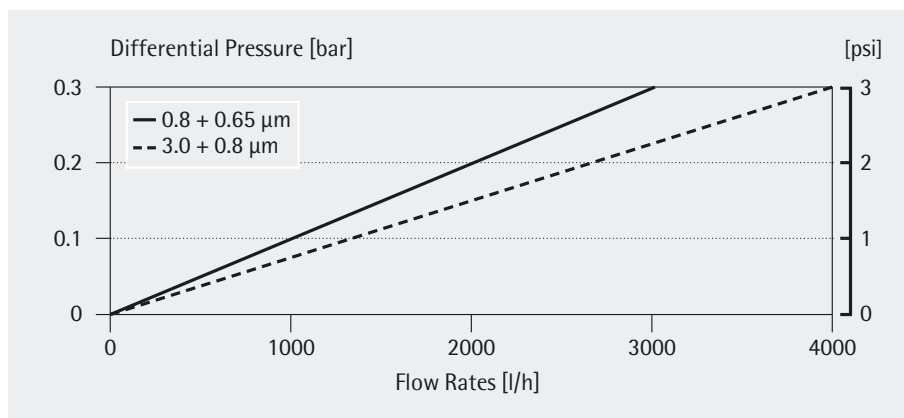
SPK5788-e

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              | 0.8 + 0.65     | 1                  |
| 562**04Ex              | 3.0 + 0.8      | 1                  |
| <b>Mini Cartridges</b> |                |                    |
| 5621507Ax-----B        | 0.2            | 5                  |
| 5621506Ax-----B        | 0.45           | 5                  |
| 5621505Gx-----B        | 0.8 + 0.65     | 5                  |
| 5621504Ex-----B        | 3.0 + 0.8      | 5                  |

\*\* : Adapter Type

x : Size

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