

# Sartoclean CA

## Particle & Bioburden Reduction Filter Cartridges and Mini Cartridges



### Description

Sartoclean CA filter cartridges and Mini-cartridges offer defined retention by size exclusion and are the choice for a broad range of prefiltration applications in the biopharmaceutical industry. Ideal for applications ranging from particle removal to bioburden reduction, Sartoclean CA prefilters prevent early blockage of downstream sterilizing grade membrane filters and thus contribute 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 Sartoclean CA filters have proven to be the membrane material with lowest unspecific binding characteristics, assuring highest protein yields and rapid preservative recovery and thereby enhancing your process efficiency.

### Performance

Sartoclean CA filters with a heterogeneous double layer construction offer optimal retention and throughput. The "built-in prefiltration" configuration (3.0/0.8 µm & 0.8/0.65 µm) offers highest total throughput performance and helps prevent frequent filter change out and thus assures economical system design. Single layer Sartoclean CA filters (0.45 µm & 0.2 µm) offer highest flow rates for microbe retentive filtration.

### Mechanical Strength

Reinforcement of the membranes results in enhanced mechanical strength and thermal resistance. These attributes are especially of interest in applications with high differential pressure and also in those that may require repeated steam sterilization of the filters.

### Flexibility

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

### Documentation

Sartoclean CA 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:	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>

#### Available Adapters Cartridges

21, 25, 27, 28

#### Available Adapter Mini-Cartridges

15

#### Operating Parameters

Max. allowable	5 bar   75 psi at 20 °C
Differential pressure:	2 bar   29 psi at 80 °C
Max. allowable back pressure:	2 bar   29 psi at 20 °C

# Membrane Filter Cartridges

## 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

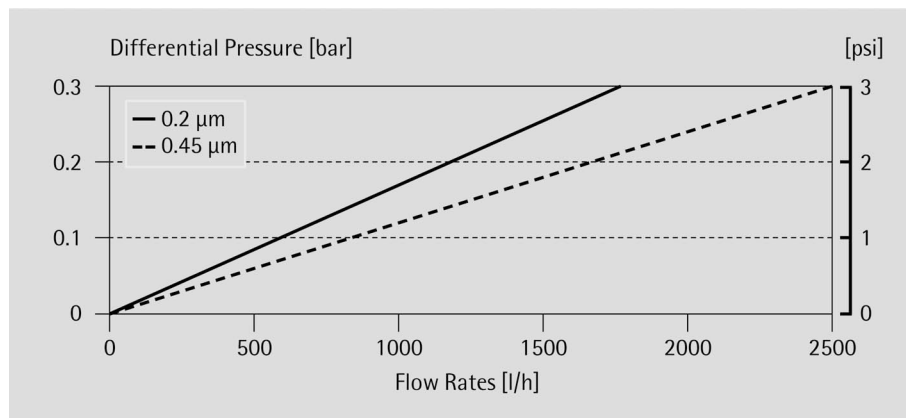
In-Line Sterilization: Min. 25  
Autoclaving: Min. 25

### Technical References

#### Validation Guide:

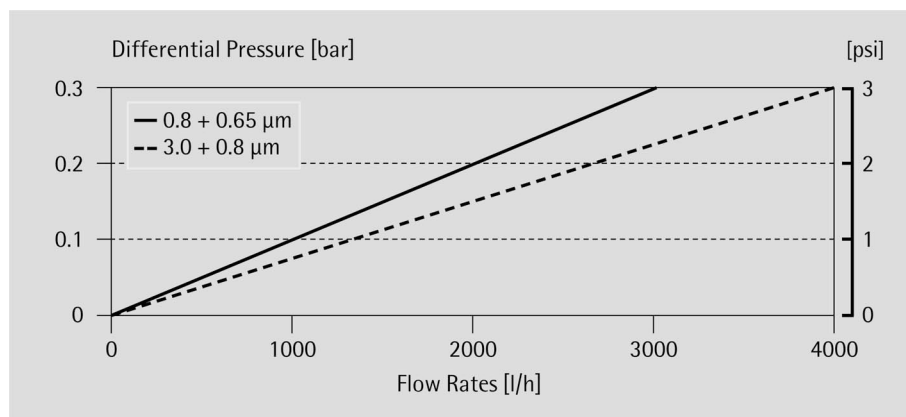
SPK5718-e

Water Flow Rates for Sartoclean CA 10" Cartridges



Standardized at 20 °C

Water Flow Rates for Sartoclean CA 10" Cartridges



Standardized at 20 °C

### Ordering Guide:



**Filter Family**  
562 = Sartoclean CA

#### Final Filter | Prefilter Pore Size

07A = 0.2 µm (no prefilter)  
06A = 0.45 µm (no prefilter)  
06F = 0.45 µm/1.2 µm  
05G = 0.65 µm/0.8 µm  
04E = 0.8 µm/3.0 µm

#### Cartridge Size

1 = 10" Standard Cartridge, 0.74m<sup>2</sup> / 7.4ft<sup>2</sup>  
2 = 20" Standard Cartridge, 1.5m<sup>2</sup> / 15ft<sup>2</sup>  
3 = 30" Standard Cartridge, 2.2m<sup>2</sup> / 22ft<sup>2</sup>  
7 = 0.08 m<sup>2</sup> / 0.8ft<sup>2</sup> Mini Cartridge  
8 = 0.16 m<sup>2</sup> / 1.6ft<sup>2</sup> Mini Cartridge  
9 = 0.3 m<sup>2</sup> / 3ft<sup>2</sup> Mini Cartridge

#### Filter Format

15 = Mini-Cartridge  
21 = Double Open End  
25 = Standard Cartridge (code 7)  
27 = Standard Cartridge (code 3)  
28 = Double 222 O-ring w/locking bayonet

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