

Sartoclean GF

Adsorptive Membrane Filter Capsules and MaxiCaps for Colloid and Bioburden Reduction



Description

Sartoclean GF filter capsules combine absolute retention performance by membrane filtration with high adsorptive capacity of glass fiber fleeces. Therefore Sartoclean GF filters are ideally suited for removal of colloids and lipids, for defined particle retention and also for bioburden reduction in a broad range of bio-pharmaceutical applications.

Applications

Sartoclean GF filter capsules are widely used for prefiltration in biotech manufacturing processes to protect downstream processing equipment. Typical applications include bioburden reduction as well as effective colloid and lipid removal from:

- Fermentation broths
- Serum
- Cell Culture Media
- Colloid and Lipid containing solutions

Process Safety

The removal of colloidal contaminants and lipids by adsorption allows an effective downstream processing; and bioburden reduction by membrane filtration prevents the formation of pyrogens during the process - resulting in an increased process safety, especially for biotech derived fluids.

Performance

The combination of adsorptive glass fiber fleeces with membrane filters assures optimal total throughput performance and allows for a more economical filtration system design.

Flexibility

Sartoclean GF filters are available as capsules, MaxiCaps, standard filter cartridges and mini-cartridges- offering a range of choices for scale-up and for easiest adoption to various process volumes.

Documentation

Sartoclean GF filters 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 |
| Filter active fleece: | Glass Fiber |
| Support Fleece: | Polypropylene |
| Core: | Polypropylene |
| End caps: | Polypropylene |
| Outer shell: | Polypropylene |

Pore Sizes

0.8 + 0.65 μ m
3.0 + 0.8 μ m

Available Sizes | Filtration Area

MaxiCaps

| | | | |
|--------|-----|--------------------|--------------------|
| Size 1 | 10" | 0.6 m ² | 6 ft ² |
| Size 2 | 20" | 1.2 m ² | 12 ft ² |
| Size 3 | 30" | 1.8 m ² | 18 ft ² |

Capsules

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

Available Connectors

SS, SO, OO

Operating Parameters

| | | |
|-------------------------------|-------|-----------------|
| Max. allowable | 4 bar | 58 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 Capsules

Specifications

Extractables

Sartoclean GF 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

Autoclaving

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

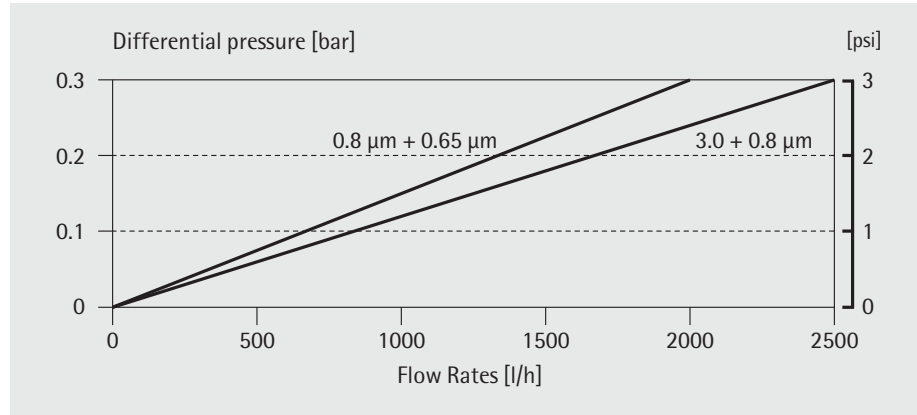
Autoclaving: Min. 25

Technical References

Validation Guide:

SPK5718-e

Water Flow Rates for 10" Sartoclean GF Cartridges



Standardized at 20 °C

Ordering Guide:



Filter Family
560 = Sartoclean GF

Filter Format
13 = Capsules

Final Filter | Prefilter Pore Size
05G = 0.65 µm/0.8 µm
04E = 0.8 µm/3.0 µm

Capsule Size/Surface Area

- 1 = 10" Maxicap/0.6m²/6ft²
- 2 = 20" Maxicap/1.2m²/12ft²
- 3 = 30" Maxicap/1.8m²/18ft²
- 7 = 0.05 m² / 0.5 ft²
- 8 = 0.1 m² / 1ft²
- 9 = 0.2 m² / 2ft²
- 0 = 0.45 m² / 5ft²

Connectors

- SS = 1-1.5" sanitary flange inlet/outlet
- SO = Sanitary inlet, Hose barb outlet
- OO = 1/4" Hose Barb, inlet/outlet

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Publication No.: S--2023-am04051
Order No.: 85030-520-15