

Sartoclean GF

Adsorptive Membrane Filter Cartridges and Mini Cartridges for Colloid and Bioburden Reduction



Description

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

Documentation

Sartoclean GF 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
Filter active fleece:	Glass Fiber
Support Fleece:	Polypropylene
Core:	Polypropylene
End caps:	Polypropylene
O-Rings:	Silicone (optional EPDM or Viton)

Pore Sizes

0.8 + 0.65 µm
3.0 + 0.8 µm

Available Sizes | Filtration Area

Cartridges

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

Mini Cartridges

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

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 GF cartridges and mini-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

Ordering Guide:



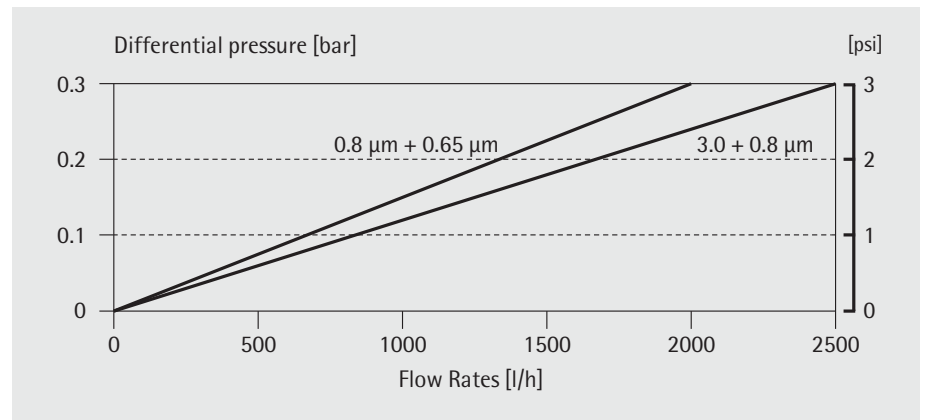
Filter Family
560 = Sartoclean GF

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

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

Cartridge Size
1 = 10" Cartridge, 0.6m² / 6ft²
2 = 20" Cartridge, 1.2m² / 12ft²
3 = 30" Cartridge, 1.8m² / 18ft²
7 = 0.05 m² / 0.5 ft² Mini Cartridge
8 = 0.1 m² / 1ft² Mini Cartridge
9 = 0.2 m² / 2ft² Mini Cartridge

Water Flow Rates for 10" Sartoclean GF Cartridges



Standardized at 20 °C

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