

Sartoclean GF

Adsorptive Membrane Filter for Colloid and Bioburden Reduction



Description

Sartoclean GF filter cartridges combine absolute retention performance by membrane filtration with high adsorptive power by glass fiber fleeces. Therefore Sartoclean GF are ideally suited for removal of colloids and lipids as well as defined particle retention and bioburden reduction for a broad range of bio-pharmaceutical applications.

Applications

Sartoclean GF filter cartridges are widely used for prefiltration in biotech manufacturing processes to protect subsequent 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 avoids 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 allow for economic filtration system design.

Flexibility

Sartoclean GF filters are available as standard filter cartridges, mini-cartridges and capsules offering broadest choice for scale-up and easiest adoption to varying 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 μ m
3.0 + 0.8 μ m

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

Capsules | 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
Size 0	0.45 m ²	5 ft ² (only Capsules)

Available Adapters Cartridges

21, 25, 27, 28

Available Adapter Mini-Cartridges

15

Available Connectors Connectors Capsules

SS, SO, OO

Operating Parameters

Max. allowable	5 bar 75 psi at 20 °C
Differential pressure:	(Cartridges)
	4 bar 58 psi at 20 °C
	(Capsules)
	2 bar 29 psi at 80 °C
	(Cartridges and Capsules)

Max. allowable back pressure: 2 bar | 29 psi at 20 °C

Membrane Filter Cartridges

Specifications

Extractables

Sartoclean GF cartridges, mini-cartridges and 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

In-Line Steam Sterilization

134 °C, 20 min. at max differential pressure of 0.5 bar | 7 psi

Note:

Capsules cannot be in-line steam sterilized!

Autoclaving

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

In-Line Sterilization: Min. 25

(only cartridges)

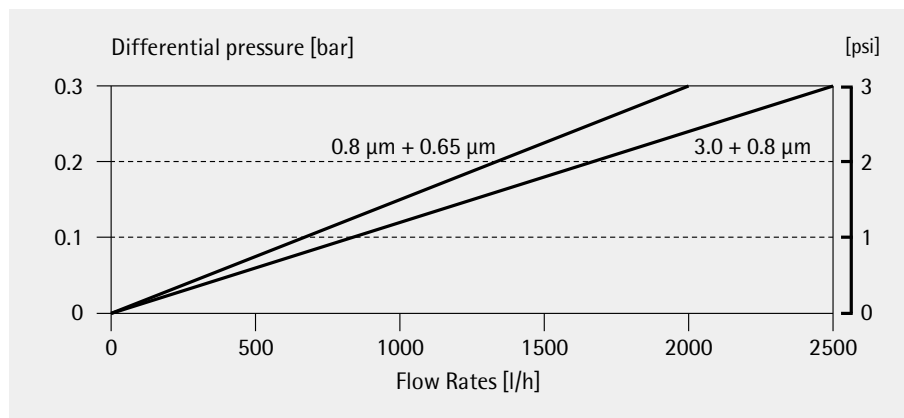
Autoclaving: Min. 25

Technical References

Validation Guide:

SPK5718-e

Water Flow Rates for 10" Sartoclean GF Cartridges



Standardized at 20 °C

Order Information

Order Code	Pore size [µm]
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Cartridges

560**05GX	0.65
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560**04EX	0.8
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Capsules

5601305GX--**--#	0.65
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5601304EX--**--#	0.8
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Mini-Cartridges

5601305GX-----B	0.65
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5601304EX-----B	0.8
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