



Sartoclean GF

Adsorptive Membrane Filter for Colloid and Bioburden Reduction



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

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 and mini-cartridges and 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

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)

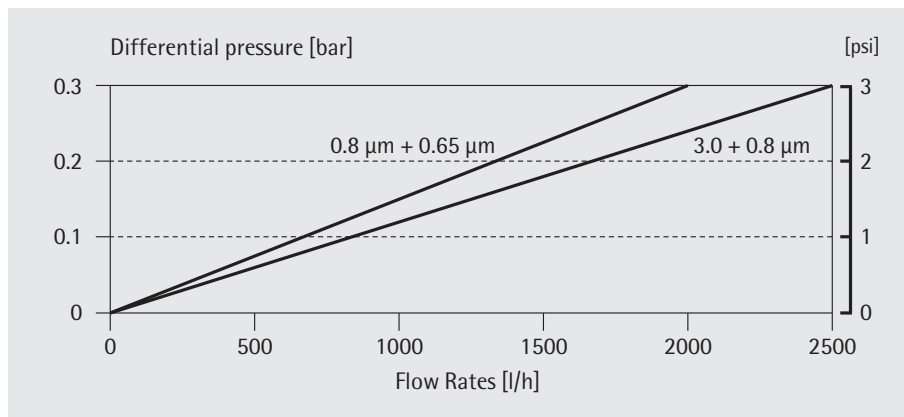
Autoclaving: Min. 25

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]
------------	----------------

Cartridges

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

Mini-Cartridges

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

Sartorius Stedim Biotech GmbH
August-Spindler-Strasse 11
37079 Goettingen, Germany

Phone +49.551.308.0
Fax +49.551.308.3289
www.sartorius-stedim.com

USA Toll-Free +1.800.368.7178
UK +44.1372.737159
France +33.442.845600
Italy +39.055.63.40.41
Spain +34.91.3586102
Japan +81.3.3740.5407

Specifications subject to change
without notice. Printed and copyrighted
by Sartorius Stedim Biotech GmbH
W/sart-000 - G
Publication No.: SPK2047-e08064
Order No.: 85030-516-84