



sartorius stedim
biotech

MaxiCaps® and Cartridges for the biopharmaceutical industry



turning science into solutions

A profile of Sartorius Stedim Biotech

Sartorius Stedim Biotech is a leading provider of cutting-edge equipment and services for the development, quality assurance and production processes of the biopharmaceutical industry. Its integrated solutions covering fermentation, filtration, purification, fluid management and lab technologies are supporting the biopharmaceutical industry around the world to develop and produce drugs safely, timely and economically. For next generation processes, Sartorius Stedim Biotech focuses on single-use technologies and added-value services to meet the rapidly changing technology requirements of the industry it serves. Strongly rooted in the scientific community and closely allied with customers and technology partners, the company is dedicated to its philosophy of "Turning science into solutions".

Headquartered in Aubagne, France, Sartorius Stedim Biotech is listed on the Eurolist of Euronext Paris. With its own manufacturing and sales companies in Europe, North America and Asia, Sartorius Stedim Biotech enjoys a worldwide presence. Its key manufacturing and R&D location is in Germany.



Filtration Technology

Sartorius Stedim Biotech MaxiCaps® and Cartridges are especially used for pilot scale applications and production. Sartorius Stedim Biotech provides a broad range of different membrane materials as well as depth filter materials to match the multiple application requirements of the biopharmaceutical industry. Featuring multiple connector styles, adaptor types and filter formats, Sartorius Stedim Biotech MaxiCaps® and Cartridges can be easily incorporated into any filtration process.

Final Sterilizing Grade Filters

The Sartorius Stedim Biotech product range of Sterilizing Grade Filter elements for liquids consists of 3 different types of hydrophilic membrane filters.

- Featuring ultra low binding Cellulose Acetate membranes, Sartobran® P filters are typically used for filtration of high value pharmaceuticals like coagulation factors, vaccines and preservative containing solutions.
- Sartopore® 2, Sartopore® 2 XLG & XLI filters provide highest total throughput performance based on the highly asymmetric PES membrane, assuring lowest filtration costs, e.g. in media filtration.
- Sartolon® filter elements are ideal for filtration for a wide range of solvents and liquids containing solvents.

Prefiltration

Biological solutions often contain heavy loads of particles and other contaminants which prematurely plug 0.2 µm rated and smaller size membrane filters. The use of Sartorius Stedim Biotech prefilters protects downstream Sterilizing Grade Filters effectively and enhances significantly their total throughput performance.

Sartoclean® CA membrane prefilters are used for bioburden reduction in front of final membrane filters assuring highest product yields by lowest unspecific adsorption due the cellulose acetate membrane material. In combination with glass fibre fleeces Sartoclean® GF prefilters add adsorptive power to enhance the clarification effect.

Sartopure® PP 2 polypropylene depth filters are the ideal choice for removal of hard, non deformable particles upstream of final membrane filters to enhance their total throughput performance. Featuring highly adsorptive glass fibre fleeces Sartopure® GF Plus filters are the ideal choice for removal of contaminants like colloids, lipids and protein aggregates (Host Cell Protein). They are used for protection of membrane filters, chromatography columns, crossflow systems and other downstream processing equipment to assure efficient purification steps with highest product yields.



MaxiCaps®

MaxiCaps® feature an innovative capsule housing design which improves security, filter handling and ease of use. The unique labelling, the advanced valve design, the broad range of connector styles and filter sizes are key features of MaxiCaps®.

Applications

MaxiCaps® are available for all filter materials. Therefore, MaxiCaps® can be used for a broad range of applications in biopharmaceutical manufacturing and form & filling operations like:

- Sterilising Grade Filtration
- Mycoplasma Retentive Filtration
- Bioburden Reduction
- Prefiltration
- Clarification

Unique Labelling

MaxiCaps® feature a comprehensive and easy to read out labelling on the MaxiCap® housing including:

- Filter Type
- Order Code | Lot-no. | Piece-no.
- Pore-Size or Retention Rating
- Operating Parameters
- Flow Direction Indication

This labelling allows secure identification of each filter and assures traceability of the filter throughout the whole process. Operator errors and filter mishandling as well as filter mix-ups are eliminated. Thereby MaxiCaps® contribute significantly to improve the overall safety of manufacturing processes.

Fluid Containment

The vent design including a double o-ring sealing and an integral hose barb for fluid containment avoid contamination and protect operators in an optimal way. The vent design features a defined open | close position to enhance ease of use.

Flexible Integration

MaxiCaps® are available with a broad range of different connector styles and with various filter sizes to allow for an easy integration into any process.



Cartridges

Cartridges feature the same construction and materials as all our standard filter elements. They are designed for filtration in pilot scale and production. Cartridges are used in stainless steel housings and due to their rigid construction they withstand multiple in-line steam sterilization cycles if required.

Scale-up

Our Sartopore® 2 & Sartobran® P filter elements, for example, are made with the same membranes and materials of construction from the smallest available filter element with 150 cm² | 0.015 ft² to 0.45 m² | 5 ft² up to filter cartridges and MaxiCaps® with 1.8 m² | 18ft² filtration area.



This product selection gives you the opportunity to easily scale-up from R&D laboratory stages to pilot plant and production scale.

Certified Quality

All Sartorius Stedim Biotech filter elements including MaxiCaps® and Cartridges are manufactured according to an ISO 9001:2000 certified Quality Management System. Our manufacturing facilities operate in conformance with cGMP requirements in addition to the ISO standard. Sartorius Stedim Biotech' quality philosophy ensures that our customers receive products and services that meet the strictest quality requirements for reliable operation.

Validation Guides

Our entire range of filter elements are supplied with a quality assurance certificate to assist you in the validation of your manufacturing process. Comprehensive product specific validation packages are available for all Sartorius Stedim Biotech filter elements.

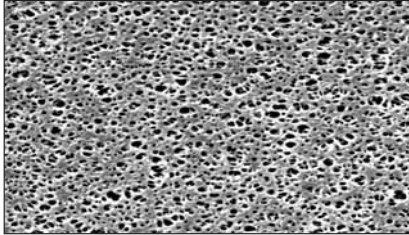
Process Validation

Sartorius Stedim Biotech offers a wide range of validation support services to qualify the use of our filter products for your processes. The Sartorius Stedim Biotech validation service has a proven track record in assisting customers in validating their products and achieving regulatory approval.

Membranefilter

Sartopore® 2

Sterilizing grade pharmaceutical filter with broad chemical compatibility



Applications

- Sterile filtration of parenteral solutions with high or low pH
- Sterile filtration of highly viscous products, e.g. ophthalmics
- Sterile filtration of disinfectants
- Sterile filtration of buffers and media
- Mycoplasma removal from serum and cell culture media (0.1 µm)
- Substerile filtration for enhanced sterility assurance (0.1 µm)

Cartridge Construction

- Protective polypropylene layer
- Asymmetric polyethersulfone membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Size Combinations

0.8 + 0.45 µm
0.45 + 0.2 µm
0.2 + 0.1 µm

Adapter Types

21, 25, 27, 28

Filtration Area

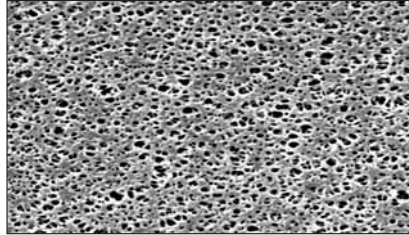
0.3 m² (3.2 ft²) per 5" element
0.6 m² (6.4 ft²) per 10" element

Basic Order Number

544...

Sartopore® 2 XLG

Sterilizing grade pharmaceutical filter with broad chemical compatibility and highest throughputs for media & biological filtration processes



Applications

- Sterilizing grade filtration of:
- Plant peptone or yeast supplemented cell culture media
 - Serum containing cell culture media
 - Other cell culture media used in biotech manufacturing
 - Clarified cell culture harvest
 - Downstream Intermediates (before & after UF/DF and chromatography steps)

Cartridge Construction

- Protective polypropylene layer
- Asymmetric polyethersulfone membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Size Combinations

0.8 + 0.2 µm

Adapter Type

25

Filtration Area

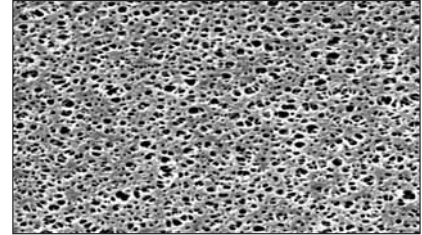
0.8 m² (8.6 ft²) per 10" element

Basic Order Number

544...07G

Sartopore® 2 XLI

Sterilizing grade pharmaceutical filter with broad chemical compatibility and highest throughputs for chemical defined media & Ophthalmics



Applications

- Sterilizing grade filtration of:
- Ophthalmic solutions
 - Chemically defined cell culture media
 - High viscous LVP's
 - Any fully chemically defined media
 - Biologicals with small Particle spectrum

Cartridge Construction

- Protective polypropylene layer
- Asymmetric polyethersulfone membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Size Combinations

0.35 + 0.2 µm

Adapter Type

25

Filtration Area

0.8 m² (8.6 ft²) per 10" element

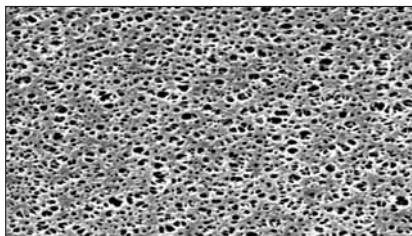
Basic Order Number

544...07I

Membranefilter

Sartopore® 2 HF

Sterilizing grade pharmaceutical filter for highest flow rates and broad chemical compatibility



Applications

- Sterile filtration of Buffers
- Sterile filtration of low viscous, water based Media
- Water for Injection
- Cleaning and disinfection solutions
- Bulk Pharmaceuticals

Cartridge Construction

- Protective polypropylene layer
- Asymmetric Polyethersulfone membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and endcaps
- Silicone O-rings standard – optional EPDM, Viton

Pore Size:

0.2 µm

Adapter Types

21, 25

Filtration Area:

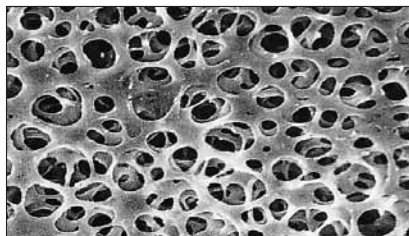
0.8 m² (8.6 ft²) per 10" element

Basic Order Number

544...

Sartobran® P

Sterilizing grade pharmaceutical filter for low unspecific adsorption



Applications

- Sterile filtration of parenteral solutions
- Sterile filtration of vaccines, biologicals and antibiotics
- Sterile filtration of serum and plasma fractions
- Sterile filtration of tissue culture media, diagnostic reagents, therapeutic agents, preparations containing proteins, vitamins and preservatives
- Substerile filtration (0.1 µm)

Cartridge Construction

- Protective polypropylene layer
- Reinforced cellulose acetate membrane
- Reinforced cellulose acetate membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Size Combinations

0.65 + 0.45 µm

0.45 + 0.2 µm

0.45 + 0.1 µm

Adapter Types

21, 25, 27, 28

Filtration Area

0.3 m² (3.2 ft²) per 5" element

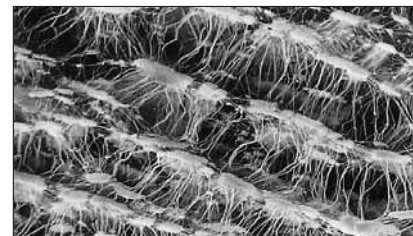
0.6 m² (6.4 ft²) per 10" element

Basic Order Number

523...P

Sartofluor® GA|LG

Pharmaceutical grade hydrophobic PTFE membrane filter



Applications

- Sterile venting of tanks
- Sterile air filtration for filling equipment
- Fermentation air filtration
- Sterile filtration of gases
- Bioreactor inlet and outlet streams
- Sterile filtration of aggressive media and solvents (LG)

Cartridge Construction

- Protective polypropylene layer
- PTFE membrane filter
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Sizes

0.2 µm (GA) | 0.45 µm (LG)

0.1 µm (GA) | 0.2 µm (LG)

0.1 µm (LG)

Adapter Type

25 (GA)

25, 28 (LG)

21, 27

Filtration Area

0.375 m² (4.0 ft²) per 5" element (GA)

0.75 m² (8.1 ft²) per 10" element (GA)

0.5 m² (5.4 ft²) per 10" element (LG)

Basic Order Number

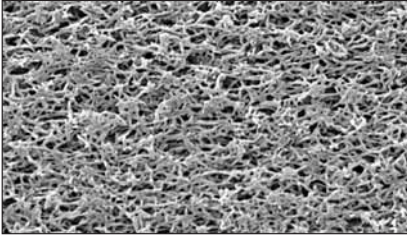
518...GA

518...LG

Membranefilter

Sartolon®

Sterilizing grade pharmaceutical filter with reinforced Nylon membrane for broad solvent compatibility



Applications

- Sterile filtration of solvents
- Sterile filtration of antibiotics
- Sterile filtration of parenteral solutions
- Sterile filtration of bulk pharmaceuticals

Cartridge Construction

- Protective polypropylene layer
- Reinforced Nylon membrane
- Nylon membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Size Combinations

0.45 + 0.2 µm

Adapter Types

21, 25, 27, 28

Filtration Area

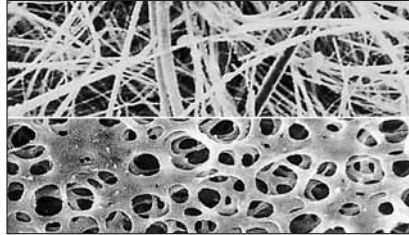
0.6 m² (6.5 ft²) per 10" element

Basic Order Number

510...

Sartoclean® GF

Prefilter for pharmaceutical liquids containing colloids and high bioburdens



Applications

- Prefiltration of serum and plasma fractions
- Prefiltration of biological products and vaccines
- Prefiltration of cell culture media
- Cell removal from fermentation processes
- Clarification prior to column chromatography

Cartridge Construction

- Protective polypropylene layer
- Non-woven glass fiber material
- Reinforced cellulose acetate membrane
- Reinforced cellulose acetate membrane
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings, standard – optional: EPDM, Viton

Available Pore Size Combinations

3 + 0.8 µm

0.8 + 0.65 µm

Adapter Types

21, 25, 27, 28

Filtration Area

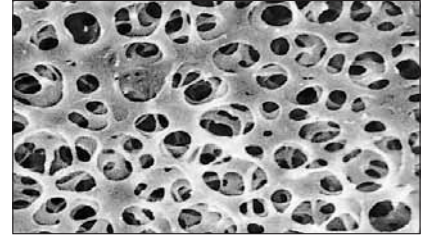
0.6 m² (6.5 ft²) per 10" element

Basic Order Number

560...

Sartoclean® CA

Pharmaceutical grade membrane prefilter



Applications

- Prefiltration of parenteral solutions
- Prefiltration of serum and plasma
- Biological products and vaccines
- Prefiltration of cell culture media
- Fermentation feed solutions
- Cell removal from fermentation processes
- Clarification prior to column chromatography
- Particle removal in water systems

Cartridge Construction

- Protective polypropylene layer
- Reinforced cellulose acetate membrane(s)
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Pore Sizes

3 + 0.8 µm (double layer)

0.8 + 0.65 µm (double layer)

0.45 µm (single layer)

0.2 µm (single layer)

Adapter Types

21, 25, 27, 28

Filtration Area

0.74 m² (7.4 ft²) per 10" element

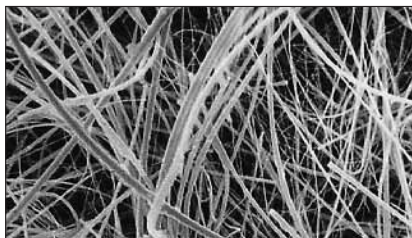
Basic Order Number

562...

Prefilter

Sartopure® PP2

Particle removing polypropylene depth filter



Applications

- Prefiltration of parenteral solutions
- Particle removal from DI water systems
- Particle removal from chemicals and solvents
- Particle removal from air and compressed gases
- Prefiltration of biological solutions

Cartridge Construction

- Protective polypropylene layer
- Multiple polypropylene layers with progressively finer retention ratings
- Polypropylene drainage layer
- Polypropylene outer cage, core and end caps
- Silicone O-rings, standard – optional: EPDM, Viton

Available Nominal Retention Ratings

- 50 µm
- 20 µm
- 8 µm
- 5 µm
- 3 µm
- 1.2 µm
- 0.65 µm

Adapter Types

21, 25, 27, 28

Filtration Area

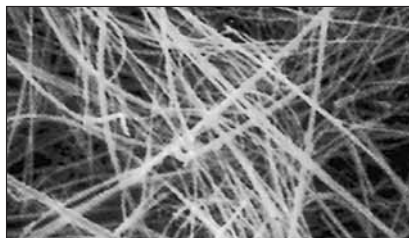
0.6 m² (6.5 ft²) per 10" element

Basic Order Number

559...

Sartopure® GF Plus

Highly adsorptive glassfiber prefilter with outstanding total throughput performance



Applications

- Clarification of fermentation broths and cell culture solutions after cell harvest
- Prefiltration of serumfree or serum containing cell culture media
- Prefiltration of highly viscous solutions
- Prefiltration of serum
- Prefiltration of media with high content of colloids and lipids

Cartridge Construction

- Protective polypropylene layer
- Multiple non-woven glass fibre layers with progressively finer retention ratings
- Polypropylene drainage layer
- Polypropylene outer cage, core and endcaps
- Silicone O-rings standard – optional EPDM, Viton

Available Nominal Retention Ratings

- 1.2 µm
- 0.65 µm

Filtration Area

0.6 m² per 10" Element

Basic Order Number

555...

Sartofine® PP

High dirt loading prefilter validated for pharmaceutical applications



Applications

- Particle and cell removal from fermentation feed solutions
- Prefiltration of serum products, tissue culture media, diagnostic sera
- Clarification of solvents
- Particle removal from solvents, acids, bases and chemicals
- Utility filtration for cleaning machine and steam lines
- Capture of DI resin particles from water systems

Cartridge Construction

- 14 mm thick multilayer construction of wound non-woven polypropylene with up to seven progressively finer filter zones
- Polypropylene outer cage, core and end caps
- Silicone O-rings standard – optional EPDM, Viton

Available Retention Ratings

- 40 µm
- 20 µm
- 10 µm
- 5 µm
- 3 µm
- 1 µm
- 0.7 µm
- 0.5 µm

Adapter Types

00 (knife edge), 03, 05, 07, 08

Filtration Area

0.05 m² (0.54 ft²) surface by 14 mm depth filter material

Basic Order Number

558...

Integrity Testing

Filter Integrity Testing

Sartorius Stedim Biotech offers a broad range of filter integrity test solutions – beginning with our stand-alone units of the Sartocheck family for standard applications up to customized solutions like the WIThin concept and special filter management systems. There are no limits in terms of technical feasibility.

Sartocheck 3 Plus

The stand-alone integrity tester for standard applications. This unit can be used to perform all established integrity test methods. Due to its paper-based concept the requirements regarding 21 CFR part 11 are not applicable.

Sartocheck 4

The state-of-the-art integrity tester Sartocheck 4 offers a variety of additional features: Password-protected login function, the definition of individual user rights, an audit trail and a large electronic database for test programs and test results are only some issues that describe the functionalities – in full compliance with 21 CFR part 11.

Sartocheck 4 MultiUnit

Up to four different MultiUnits can be connected to one Sartocheck 4 allowing independent and parallel integrity testing of five filters. This significantly reduces the time required for integrity testing and therefore improves the cost effectiveness.



Filter Management Systems

WITHin Concept

The WITHin concept allows to integrity test the filters inside specific equipment like autoclaves and freeze-dryers without connecting an external integrity tester. The system utilizes the existing hardware and software platforms. The control functions as well as the algorithms are directly integrated into the existing system.

Filter Management System

The concept of the Filter Management System decouples the filter handling procedure from the point-of-use of the filter. The in-place and off-line method saves expensive time and eliminates the risk of integrity test failures before production runs.



Sartocheck 4 allows easy and reliable data entry via barcode scanner (optional)

Biotech Services

Our capabilities are your key to success.

Source all your needs from one reliable partner for process optimization, customized validation and regulatory support, substantiated by practical training courses and instrument services.

We are aware of our responsibilities toward the success of your business, and take them seriously. That's why we are rapidly deployable and globally available. You can expect the very best in science-driven consulting service, maximum regulatory expertise by our specialists, fast turnaround, on-site support and globally valid standards from Sartorius Stedim Biotech. But don't take our word for it. We invite you to see for yourself. Count on the people who know your industry inside and out: Sartorius Stedim Biotech.





DISCOVER®

Our audit and survey services:

- Compliance audits
- Regulatory inspection readiness
- Plant|Process surveys
- Validation surveys
- Quality system surveys
- Technical studies

INCREASE®

Our optimization services:

- Corrective actions guidance
- Process optimization and development support
- Design review and technology transfer
- Documentation and submittal optimization
- Regulatory guidance

CONFIDENCE®

Our validation services:

- Validation designs
- Pre-approval inspection preparation
- Post-approval change support
- CFR 21 Part 11|GAMP compliance
- Regulatory liaison
- Equipment qualification
- Filter|Cleaning|Process validation
- Risk assessment support
- Grouping support
- Extractables|Leachables testing for filters, fluid management systems and other polymer-based process components like tubing, gaskets, stoppers.

EXPAND®

Our training and seminar services:

- FDA risk-based approach
- Regulatory inspection
- CFR 21 Part 11|GAMP
- Aseptic processing
- Upstream|Downstream processing
- Process validation
- Cell culture|Fermentation
- Sterilization and integrity testing
- Quality control and quality assurance

Explore your possibilities – we continue to lead and innovate in the field of services to increase the added value to the biopharmaceutical and pharmaceutical industry.

Visit our website

www.sartorius-stedim.com

Ordering information

Standard cartridges

Cartridge Type	Adapter Type or MaxiCap (■■)	Pore Size μm	1-high (10")	2-high (20")	3-high (30")	4-high (40")
Sartobran P	21, 25, 27, 28, 13	0.45	523 ■■ 06D1 P	523 ■■ 06D2 P	523 ■■ 06D3 P	
		0.2	523 ■■ 07H1 P	523 ■■ 07H2 P	523 ■■ 07H3 P	
		0.1	523 ■■ 58H1 P	523 ■■ 58H2 P	523 ■■ 58H3 P	
Sartopore 2	21, 25, 27, 28, 13	0.45	544 ■■ 06G1	544 ■■ 06G2	544 ■■ 06G3	
		0.2	544 ■■ 07H1	544 ■■ 07H2	544 ■■ 07H3	
		0.1	544 ■■ 58K1	544 ■■ 58K2	544 ■■ 58K3	
Sartopore 2 HF	25	0.2	544 ■■ 07A1 HF	544 ■■ 07A2 HF	544 ■■ AA1 HF	
Sartopore 2 XLG	25, 13	0.2	544 ■■ 07G1	544 ■■ 07G2	544 ■■ 07G3	
Sartopore 2 XLI	25, 13	0.2	544 ■■ 07I1	544 ■■ 07I2	544 ■■ 07I3	
Sartolon	21, 25, 28, 13	0.2	510 ■■ 07H1	510 ■■ 07H2	510 ■■ 07H3	
Sartofluor GA	25, 13	0.2	518 ■■ 07T1 GA	518 ■■ 07T2 GA	518 ■■ 07T3 GA	
		0.1	518 ■■ 58T1 GA	518 ■■ 58T2 GA	518 ■■ 58T3 GA	
Sartofluor LG	25, 28, 13	0.45	518 ■■ 06T1 LG	518 ■■ 06T2 LG	518 ■■ 06T3 LG	
		0.2	518 ■■ 07T1 LG	518 ■■ 07T2 LG	518 ■■ 07T3 LG	
		0.1	518 ■■ 58T1 LG	518 ■■ 58T2 LG	518 ■■ 58T3 LG	
Sartoclean CA	21, 25, 27, 28, 13	0.8	562 ■■ 04E1	562 ■■ 04E2	562 ■■ 04E3	
		0.65	562 ■■ 05G1	562 ■■ 05G2	562 ■■ 05G3	
		0.45	562 ■■ 06A1	562 ■■ 06A2	562 ■■ 06A3	
		0.2	562 ■■ 07A1	562 ■■ 07A2	562 ■■ 07A3	
Sartoclean GF	21, 25, 27, 28, 13	0.8	560 ■■ 04E1	560 ■■ 04E2	560 ■■ 04E3	
		0.65	560 ■■ 05G1	560 ■■ 05G2	560 ■■ 05G3	
Sartopure PP2	21, 25, 27, 28, 13	50	559 ■■ 50P1	559 ■■ 50P2	559 ■■ 50P3	559 ■■ 50P4
		20	559 ■■ 20P1	559 ■■ 20P2	559 ■■ 20P3	559 ■■ 20P4
		8	559 ■■ 01P1	559 ■■ 01P2	559 ■■ 01P3	559 ■■ 01P4
		5	559 ■■ 42P1	559 ■■ 42P2	559 ■■ 42P3	559 ■■ 42P4
		3	559 ■■ 02P1	559 ■■ 02P2	559 ■■ 02P3	559 ■■ 02P4
		1.2	559 ■■ 03P1	559 ■■ 03P2	559 ■■ 03P3	559 ■■ 03P4
		0.65	559 ■■ 05P1	559 ■■ 05P2	559 ■■ 05P3	559 ■■ 05P4
Sartopure GF Plus	21, 25, 27, 28, 13	1.2	555 ■■ 03P1	555 ■■ 03P2	555 ■■ 03P3	555 ■■ 03P4
		0.65	555 ■■ 05P1	555 ■■ 05P2	555 ■■ 05P3	555 ■■ 05P4
Sartofine PP	00, 03, 05, 07, 08	40	558 ■■ 40W1	558 ■■ 40W2	558 ■■ 40W3	558 ■■ 40W4
		20	558 ■■ 20W1	558 ■■ 20W2	558 ■■ 20W3	558 ■■ 20W4
		10	558 ■■ 10W1	558 ■■ 10W2	558 ■■ 10W3	558 ■■ 10W4
		5	558 ■■ 42W1	558 ■■ 42W2	558 ■■ 42W3	558 ■■ 42W4
		3	558 ■■ 02W1	558 ■■ 02W2	558 ■■ 02W3	558 ■■ 02W4
		1	558 ■■ 03W1	558 ■■ 03W2	558 ■■ 03W3	558 ■■ 03W4
		0.7	558 ■■ 05W1	558 ■■ 05W2	558 ■■ 05W3	558 ■■ 05W4
		0.5	558 ■■ 06W1	558 ■■ 06W2	558 ■■ 06W3	558 ■■ 06W4

■■: Please replace the blanks with the appropriate two-letter combination for the adapter type or MaxiCap.

5" cartridges

Cartridge Type	Pore Size	Order Number
Sartobran P	0.2 μm	5232507H0----P
	0.1 μm	5232558H0----P
Sartopore 2	0.2 μm	5442507H0
	0.1 μm	5442558K0
Sartofluor GA	0.2 μm	5182507T0----GA

Ordering information

How to order: Sartobran P, Adapter 25, 0.2 µm, 10"

Cartridge Type	Pore Size Final Filter	Configuration Standard Cartridges MaxiCaps®
5 2 3 Sartobran P	7 0 = 70 µm	0 5" (157 mm)
5 4 4 Sartopore 2	5 0 = 50 µm	1 10" (250 mm)
5 1 0 Sartolon	4 0 = 40 µm	2 20" (500 mm)
5 1 8 Sartofluor GA LG	2 0 = 20 µm	3 30" (750 mm)
5 6 2 Sartoclean CA	1 5 = 15 µm	4 40" (1,000 mm)
5 6 0 Sartoclean GF	1 0 = 10 µm	
5 5 9 Sartopure PP2	0 1 = 8 µm	
5 5 5 Sartopure GFPlus	4 2 = 5 µm	
5 5 8 Sartofine PP	0 2 = 3 µm	
	0 3 = 1.20 µm	
	0 4 = 0.80 µm	
	0 5 = 0.65 µm	
	0 6 = 0.45 µm	
	0 7 = 0.20 µm	
	5 8 = 0.10 µm	

Gamma irradiatable	O-Rings Standard Cartridges
G (only Sartopore 2)	- - Silicone
	- E EPDM
	- V Viton

Application
P Pharmaceutical grade
G A Optimized for gas filtration
L G Optimized for liquid filtration
H F High Flow

Pore Size Prefilter
A Single membrane
P Only polypropylene layer
T Only one PTFE (Teflon®) membrane
W Multilayer (Sartofine)
E 3.00 µm
G 0.80 µm
D 0.65 µm
H 0.45 µm
I 0.35 µm
K 0.20 µm

Adapter Standard Cartridges: (∅ 71 mm)
2 1 Double open end
2 5 2-flange bayonet type
2 7 Double-O-ring
2 8 3-flange bayonet type

Standard Cartridges: (∅ 63 mm) (only Sartofine-PP)
0 0 Knife edge type (03, 05, 07, 08 see 21, 25, 27, 28)

MaxiCap
1 3 MaxiCap

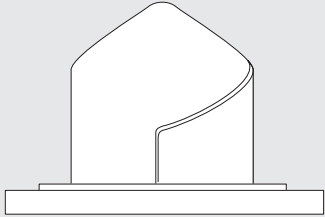
Connectors
S
O
F
B

5 2 3	2 5	0 7	H	1	- -	- -	P
-------	-----	-----	---	---	-----	-----	---

Cartridges Adapter

MaxiCaps® Connector

Top:



25, 28, 05, 08



S Connector
1 1/2" sanitary flange Tri-Clamp



27, 07



O Connector
1/2" single stepped hose barb



21, 03

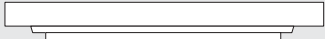
Bottom:



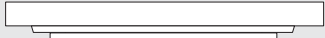
21, 03



F Connector
3/4" sanitary flange Tri-Clamp



25, 05



27, 07



B Connector
3/4"-1" multiple stepped hose barb



28, 08

Sales and Service Contacts

For further contacts, visit www.sartorius-stedim.com

Europe

Germany

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

Phone +49.551.308.0
Fax +49.551.308.3289

www.sartorius-stedim.com

Sartorius Stedim Systems GmbH
Schwarzenberger Weg 73-79
34212 Melsungen

Phone +49.5661.71.3400
Fax +49.5661.71.3702

www.sartorius-stedim.com

France

Sartorius Stedim Biotech S.A.
ZI Les Paluds
Avenue de Jouques – BP 1051
13781 Aubagne Cedex

Phone +33.442.845600
Fax +33.442.845619

Sartorius Stedim France SAS
ZI Les Paluds
Avenue de Jouques – CS 71058
13781 Aubagne Cedex

Phone +33.442.845600
Fax +33.442.846545

Austria

Sartorius Stedim Austria GmbH
Franzosengraben 12
A-1030 Vienna

Phone +43.1.7965763.18
Fax +43.1.796576344

Belgium

Sartorius Stedim Belgium N.V.
Leuvensesteenweg, 248/B
1800 Vilvoorde

Phone +32.2.756.06.80
Fax +32.2.756.06.81

Denmark

Sartorius Stedim Nordic A/S
Hoerskaetten 6D, 1.
DK-2630 Taastrup

Phone +45.7023.4400
Fax +45.4630.4030

Italy

Sartorius Stedim Italy S.p.A.
Via dell'Antella, 76/A
50012 Antella-Bagno a Ripoli (FI)

Phone +39.055.63.40.41
Fax +39.055.63.40.526

Netherlands

Sartorius Stedim Netherlands B.V.
Edisonbaan 24
3439 MN Nieuwegein

Phone +31.30.6025080
Fax +31.30.6025099

Spain

Sartorius Stedim Spain SA
C/Isabel Colbrand 10-12,
Planta 4, Oficina 121
Polígono Industrial de Fuencarral
28050 Madrid

Phone +34.91.3586102
Fax +34.91.3588804

Switzerland

Sartorius Stedim Switzerland GmbH
Lerzenstrasse 21
8953 Dietikon

Phone +41.44.741.05.00
Fax +41.44.741.05.09

U.K.

Sartorius Stedim UK Limited
Longmead Business Park
Blenheim Road, Epsom
Surrey KT19 9 QQ

Phone +44.1372.737159
Fax +44.1372.726171

America

USA

Sartorius Stedim North America Inc.
5 Orville Drive
Bohemia, NY 11716

Toll-Free +1.800.368.7178
Fax +1.631.254.4253

Sartorius Stedim SUS Inc.
1910 Mark Court
Concord, CA 94520

Phone +1.925.689.6650
Toll Free +1.800.914.6644
Fax +1.925.689.6988

Sartorius Stedim Systems Inc.
201 South Ingram Mill Road
Springfield, MO 65802

Phone +1.417.873.9636
Fax +1.417.873.9275

Argentina

Sartorius Argentina S.A.
Int. A. Avalos 4251
B1605ECS Munro
Buenos Aires

Phone +54.11.4721.0505
Fax +54.11.4762.2333

Brazil

Sartorius do Brasil Ltda
Av. Dom Pedro I, 241
Bairro Vila Pires
Santo André
São Paulo
Cep 09110-001

Phone +55.11.4451.6226
Fax +55.11.4451.4369

Mexico

Sartorius de México S.A. de C.V.
Circuito Circunvalación Poniente No. 149
Ciudad Satélite
53100 Naucalpan, Estado de México

Phone +52.5555.62.1102
Fax +52.5555.62.2942

Asia | Pacific

China

Sartorius Stedim Beijing
Representative Office
No. 33, Yu'an Road,
Airport Industrial Zone B, Shunyi District
Beijing 101300

Phone +86.10.80426516
Fax +86.10.80426580

Sartorius Stedim Shanghai
Representative Office
Room 618, Tower 1, German Centre,
Shanghai, PRC., 201203

Phone +86.21.28986393
Fax +86.21.28986392.11

Sartorius Stedim Guangzhou Office
Room 704, Broadway Plaza,
No. 233-234 Dong Feng West Road
Guangzhou 510180

Phone +86.20.8351.7921
Fax +86.20.8351.7931

India

Sartorius Stedim India Pvt. Ltd.
10, 6th Main, 3rd Phase Peenya
KIADB Industrial Area
Bangalore – 560 058

Phone +91.80.2839.1963|0461
Fax +91.80.2839.8262

Japan

Sartorius Stedim Japan K.K.
KY Building, 8-11
Kita Shinagawa 1-chome
Shinagawa-ku
Tokyo 140-0001

Phone +81.3.3740.5407
Fax +81.3.3740.5406

Malaysia

Sartorius Stedim Malaysia Sdn. Bhd.
Lot L3-E-3B, Enterprise 4
Technology Park Malaysia
Bukit Jalil
57000 Kuala Lumpur

Phone +60.3.8996.0622
Fax +60.3.8996.0755

Singapore

Sartorius Stedim Singapore Pte. Ltd.
10, Science Park Road, The Alpha
#02-25, Singapore Science Park 2
Singapore 117684

Phone +65.6872.3966
Fax +65.6778.2494

Australia

Sartorius Stedim Australia Pty. Ltd.
Unit 5, 7-11 Rodeo Drive
Dandenong South Vic 3175

Phone +61.3.8762.1800
Fax +61.3.8762.1828