



A New Vision of Perfection. A New Class of Sterile Filtration.



По вопросам продаж и поддержки обращайтесь:

Features & Benefits – Designed to Create Values for You

Large membrane area (1 m² per 10" cartridge) leads to **outstanding total throughput** and permeability

Permanent hydrophilic PES membrane lead to **lowest flush volumes** for reliable wetting

Exceptionally low protein binding for highest product yields

Reliable integrity testing even after thermal stress avoids cost-intensive re-testing

High thermal resistance allows wet & dry steaming in forward and reverse direction

Broad chemical compatibility
(pH 1-14) permits the use for most
filtration applications in pharmaceutical
and biotechnological processes

Identical construction principle of small and large devices leads to **perfect scalability** from R&D to process scale

Low extractables | leachables levels ensures consistent product quality

Sterilizing-Grade Filtration

Sterilizing-grade filtration is a highly critical step within aseptic processing of biopharmaceutical products. The quality of the filters applied directly affects the safety of the final product. Furthermore, parameters like flow rate, total throughput, wettability and unspecific adsorption have a direct impact on the production costs. Therefore, care should be taken to choose the filter with highest quality and optimized performance.

Sartopore® Platinum defines the new benchmark for sterilizing-grade filtration. These filter elements contain a unique

The highly uniform, porous structure of these sterilizing grade membrane filters provides superior filtration performance and assures reliable bacteria retention.

The completely new and innovative technologies which are incorporated in these filters lead to outstanding and unique performance data. Using Sartopore® Platinum, the critical step of sterilizing-grade filtration will reach a yet unmatched quality, performance and cost efficiency.



Sartopore® Platinum

Use its unique performance for the improvement of your processes

New Surface Modification

A new and patented membrane hydrophilization process is used to permanentely modify the membrane surface. In this process, an exceptionally thermal stabile and hydrophilic polymer is directly grafted to the inner and outer surface of the membrane.

This new technology provides membrane surface properties that are responsible for the outstanding wettability and low protein binding characteristics of the Sartopore® Platinum membrane.

New Membrane Construction – TwinPleat

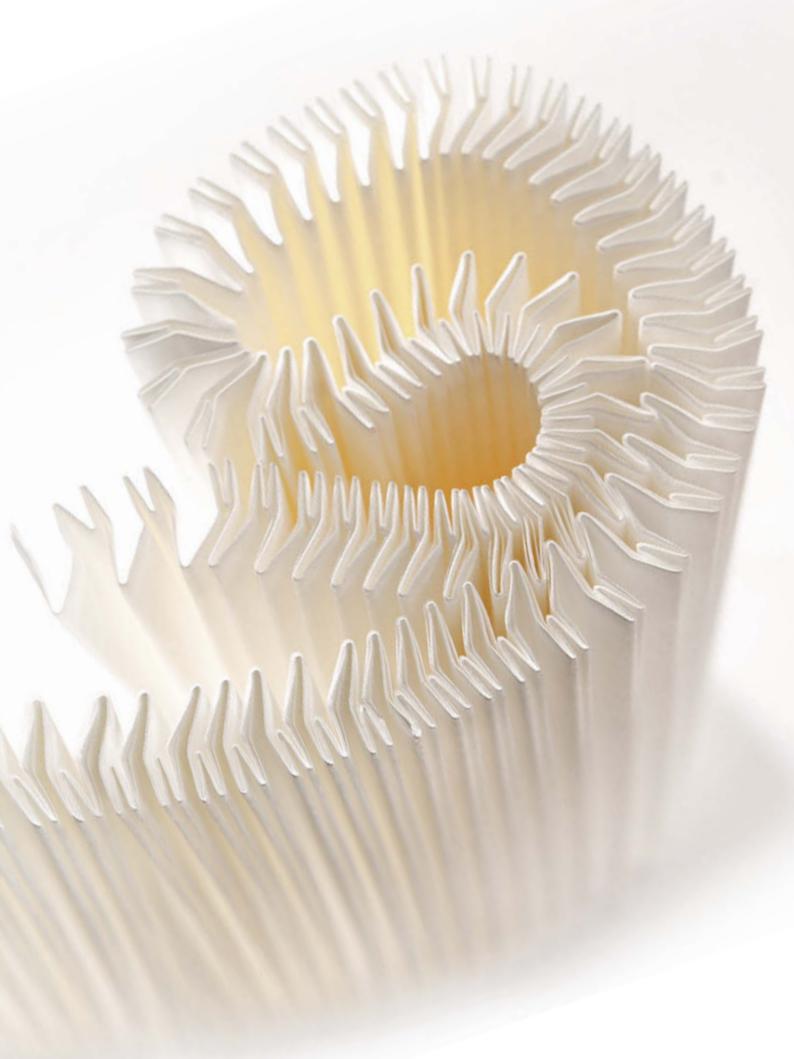
The new and innovative TwinPleat Technology (patent pending) is characterized by an alternating sequence of longer and shorter membrane pleatings, positioned in a specific angle. This special design maximizes the effective filtration area of cartridges (e.g. +66% compared to Sartopore® 2) without compromising the fluid dynamics during filtration. Thus, the cartridges are equipped with an outstanding total throughput creating the most cost effective sterile filtration alternative.

Applications

Due to the broad chemical compatibility and excellent filtration performance Sartopore® Platinum cartridges are suitable for most filtration applications in pharmaceutical and biotechnological processes.

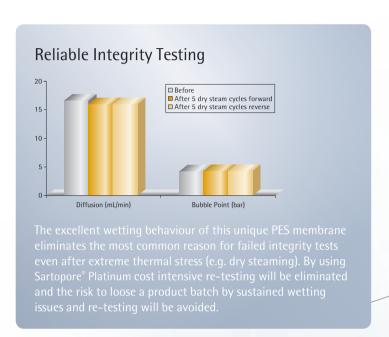






Experience the Difference

Sartop

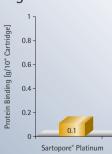


Less Water for Injection Consumption

Туре	Filter area	Flush volume
Size 4	0.021 m ²	0.1 L
Size 7	0.065 m ²	0.4 L
Size 8	0.13 m ²	0.5 L
Size 9	0.26 m ²	1 L
Size 0	0.52 m ²	3 L
10"	1.0 m ²	5 L

The extremely low amount of water required to reliably wet the Sartopore® Platinum leads to drastically reduced WFI consumption. This great benefit leads to lowest running costs especially during integrity testing. Not only flush volumes are reduced but also product dilution.

Highest Product



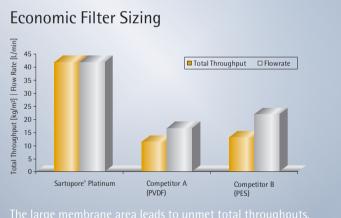
Sartopore" Platinum ex binding for PES memb yields and improves p each gram product yo





All pleated filter elements of Sartopore® Platinum show the same total througput per square meter filtration area. This ensures perfect scalability from R&D to process scale meaning less validation efforts for you. In addition, optimized scaling will reduce costly hold-up volumes.





The large membrane area leads to unmet total throughputs. The exceptional performance data allows a very economic filter sizing, a fact which will positively affect your production costs. Sartopore® Platinum allows the most econonomic filter sizing for your process.

Family Overview

Sartopore® Platinum filters are available in all relevant formats. This enables its use for standard single-use applications with the necessity for gamma irradiation as well as conventional usage in stainless steel housings with the need of steam sterilization.

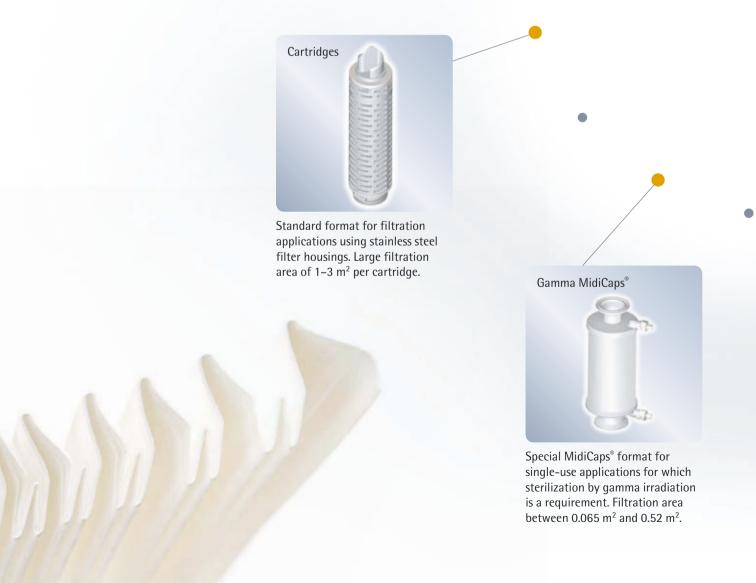
The identical principal design of the different formats allows the perfect scalability from R&D to process scale.

Use Sartopore® Platinum for the complete lifecycle of your product and profit from the extraordinary low cost-of ownership.

Sartop



Sterile ready-to-use large scale format suitable for sterilization by autoclaving or gamma irradiation. Filtration area of 1–3 m² per filter element.





SartoScale



Filterability device with 17 cm² filtration area. This flat filter capsule is mainly used for filterability (indicator) trials.

Size 4 Capsules



Smallest capsule size with pleated membrane (210 cm²). Used for scale-up (verification) trials and small volume filtration applications.



Sterile ready-to-use format with polypropylene housing and cartridge incorporated. Different sizes available with filtration area between 0.065 and 0.52 m².

MaxiScale



Smallest pleated element with TwinPleat technology. This new scale-up device is mainly used for more viscous liquids. Filtration area 0.1 m².

Filter Selection: Application Matrix

Process	Application	Prefilters			Bioburden Reduction				
		Sartoclean [®]		Sartopure®		Sartofine	Sartoguard		
		GF	CA	PP2	GF Plus	PP	PES	GF	NF
Biotech									
mAb, rec.	Media Preparation				•		•	•	•
Proteine Vaccines	Cell Culture Fermentation pH adjustment			•					
	Cell Removal Clarification	•	•		•	•		•	
	Buffer Preparation			•		•			
	Downstream Intermediates (Protection of Columns, Crossflow)	•	•		•		•	•	•
	Prefiltration prior to virus filtration						•	•	•
	Form & Fill			•					
Viral Vaccines	Media Preparation				•		•	•	•
Cell Culture	Cell Culture Fermentation pH adjustment			•					
	Cell Removal Clarification	•	•		•	•		•	
	Buffer Preparation			•		•			
	Downstream Intermediates (Protection of Columns, Crossflow)	•	•	•	•		•	•	•
	Form & Fill		•	•					
Pharma									
Opthalmics	Form & Fill			•	•				
SVP LVP	Form & Fill			•		•			
API	Form & Fill			•		•			
Blood & Plasm	าล								
Albumin Globulines	Intermediate Process Filtration (Protection of Columns, Crossflow)	•	•	•	•	•	•	•	•
	Prefiltration prior to virus filtration							•	•
	Form & Fill			•					
Clotting Factors	Intermediate Process Filtration (Protection of Columns, Crossflow)	•	•	•		•			
	Prefiltration prior to virus filtration								
	Form & Fill			•					
Other									
	Water			•			-		
	Oily formulations			•		•			
	Solvents			•		•			
	Venting Gas Filtration			•					

(1						netentive rinters		
Sartopore	® Platinum		Sartopore® 2		Sartobran® P	Sartolon [®]	Sartopore® 2	Sartopure®	Sartofluor [®]
0.2	μm	HF	XLG	XLI	0.2 μm		XLM	GA	GA LG
	•		•	•	•		•		
	•								
	•		•		•				
	•	•		•					
(•		•	•	•				
							•		
	•		•	•	•		•		
	•		•	•	•		•		
	•								
(•		•		•				
(•	•		•					
	•			•	•				
	•			•	•				
	•	•		•	•				
		•		•	•	•			
	•				•	•			
(•		•		•				
					•		•		
(•		•		•				
					•				
					•				
					•				
						•			•
						•			•
								•	• *

Sterile Liquid Filters

Mycoplasma Retentive Filters Air | Gas Filtration

Ordering Information

	Pore Size	Height	$m^2 \mid ft^2$	Order Code
Cartridges	0.45 + 0.2	10"	1.0 10.8	5492507H1
		20"	2.0 21.5	5492507H2
		30"	3.0 32.3	5492507H3
T-Style MaxiCaps®	0.45 + 0.2	10"	1.0 10.8	5498307H1G-**
		20"	2.0 21.5	5498307H2G-**
		30"	3.0 32.3	5498307H3G-**
MidiCaps®	0.45 + 0.2	7	0.065 0.67	5495307H7**A
		8	0.13 1.4	5495307H8**A
		9	0.26 2.8	5495307H9**A
		0	0.52 5.6	5495307H0**V
Gamma MidiCaps®	0.45 + 0.2	7	0.065 0.67	5495307H7G-**A
		8	0.13 1.4	5495307H8G-**A
		9	0.26 2.8	5495307H9G-**A
		0	0.52 5.6	5495307H0G-**V
Capsule Size 4	0.45 + 0.2	4	0.021 0.226	5491307H4**B
SartoScale	0.45 + 0.2		0.0017 m ²	5495307HSFFM
MaxiScale	0.45 + 0.2	1"	0.1 1.08	5491307HC**V

^{**:} Connector Type

Cartridges

T-Style MaxiCaps®



Adapter 25 Bayonet adapter with 226 double o-ring



Connector Type S TC Flange 50 mm (1 1/2")



Connector Type O 1/2" single stepped hose barb 1" single stepped hose barb



Connector Type Y

MidiCaps[®]



Connector Type S TC Flange 50 mm (1 1/2")



Connector Type O 1/2" single stepped hose barb



Connector Type F TC Flange 25 mm (3/4")



Connector Type H 1/4" multiple stepped hose barb

SartoScale

MaxiScale

Connector Type O



Connector Type F TC Flange 25 mm (3/4")

Capsule Size 4



multiple stepped hose barb



Connector Type S TC Flange 25 mm (3/4")

Connector Type F TC Flange 25 mm (1/2")

1/2" single stepped hose barb



Connector Type 0



Астана+7(7172)727-132, Волгоград(844)278-03-48, Воронеж(473)204-51-73, Екатеринбург(343)384-55-89, Казань(843)206-01-48, Краснодар(861)203-40-90, Красноярск(391)204-63-61, Москва(495)268-04-70, Нижний Новгород(831)429-08-12, Новосибирск(383)227-86-73, Ростов-на-Дону(863)308-18-15, Самара(846)206-03-16, Санкт-Петербург(812)309-46-40, Саратов(845)249-38-78, Уфа(347)229-48-12