

Sartocon and Sartocon Slice Open Channel Cassettes

Applications

The Open Channel Cassette is designed for use in the biotechnological and pharmaceutical industries.

The Open Channel Cassette can be used, for example, for the separation and concentration of highly concentrated bacteria, yeasts, mammalian cells, cells debris and highly particle- or cell-laden media.

Quality Control

Each filter cassette is individually serialized, integrity tested and certified.

Validation

All materials have passed the current USP Class VI Plastics Test. The filtrate meets or exceeds USP and EP requirements for Sterile Water for Injection with respect to total solids, oxidizable substances, particulate matter, ammonia, chloride, nitrate, sulfate and heavy metals. It complies with cGMP requirements for non-fiber-releasing filters and is filed under the Drug Master File Number DMF 5967 by the Food and Drug Administration, Washington, DC. Information on validation is available upon request.

If you have holding devices from other suppliers, please contact our Applications Department. Changes in the torque might be needed due to the specific variance in design.

For further assistance, contact your local Sartorius field engineer or our Goettingen-based Applications Department.

Features	Benefits
Moderate-protein binding	High product yield
High flow rates	Economical filtrations
Steam stable polymer	Withstands repeated steam-sterilization cycles
Self sealing cassette	No gaskets needed
Silicone sealing compound	No glue
Enlarged inlet and outlet holes	Lower pressure drop

Technical Specifications

Membrane material	Hydrosart (stabilized cellulose based polymer)
Pore size	0.2 µm, 0.45 µm
Filter area Sartococon O.C. Cassette	0.4 m ²
Filter area Sartococon Slice O.C. Cassette	0.1 m ²
Inlet pressure, P _{in}	4 bar (58 psi) maximum
Operating temperature	50° C maximum
pH stability	2–14
Air diffusion rates at P _{in} = 1 bar	50 ml air/min for 0.4 m ² filter area 15 ml air/min for 0.1 m ² filter area
Recommended torque	50 Nm max. for a Sartorius holding device with 2 screws 25 Nm for a Sartococon Slice holding device
Sterilization	121°C, 30 min, steaming/121°C, 110 min, autoclaving
Cleaning	P3 Ultrasil 11, 1%, pH 13, 50°C, 30 min P3 Ultrasil 53, 1.5%, pH 8, 50°C, 60 min P3 Ultrasil 62 60a, 1%, pH 6.5, 50°C, 30 min Sodium hydroxide, 1M, 40°C, 60 min
Disinfection	NaOH, 1 M, 40–50°C, 30 min
Storage	NaOH, 0.1 M

An Example of Flux Rates for Water

Pore size	Permeate (P _{in} = 2.0 bar, P _{out} = 0.5 bar)	
	0.4 m ²	0.1 m ²
0.2 µm	2,000 l/hm ²	2,000 l/hm ²
0.45 µm	2,100 l/hm ²	2,100 l/hm ²

Retention Coefficient

Marker	Retention
Bacteria	>99%
Mammalian cells	>99%
Lipids	<3%
IgG	<2%
IgM	<2%
Albumin	<1%

Materials of Construction

Membrane	Hydrosart
Gaskets	PVDF/PSU
Spacer	Polypropylene
Sealing compound	Silicone

Available Types and Order Numbers

Type	Filter area	Pore size	Order No.
Sartocon Open Channel Cassette	0.4 m ²	0.2 µm	302 186 07 04 O--SG
Sartocon Open Channel Cassette	0.4 m ²	0.45 µm	302 186 06 04 O--SG
Sartocon Slice Open Channel Cassette	0.1 m ²	0.2 µm	305 186 07 01 O--SG
Sartocon Slice Open Channel Cassette	0.1 m ²	0.45 µm	305 186 06 01 O--SG

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