



Sartopure® PP2

Particle Filtration & Bioburden Reduction Filter Elements

Product Information

Sartopure® PP2 filter elements are for the retention of hard, non deformable particles from liquids and gases. Every element contains multiple layers of pleated polypropylene fleece material. They are ideally suited for process associated prefiltration.



Applications

- Chemicals (ph 1-14)
- Solvents | Additives
- Water systems

Performance

Sartopure® PP2 filter elements combine high dirt loading capacities with long service life and extremely high flow rates and the all polypropylene construction offers a broad chemical compatibility.

Economical Results

Considering all features and benefits, Sartopure® PP2 filters guarantee the maximum in process profitability.

Flexibility

Sartopure® PP2 are available with various filtration areas from 500 cm² | 0.5 ft² up to 1.8 m² | 18 ft² for easy adoption to any filtration process independent from the batch size.

Scalability

Consistent and predictable scale-up and down trials can reliably be performed as all Sartopure® PP2 filter elements are produced with the same type of membrane and identical materials of construction.

Cost Saving

The use of the disposable capsule design concept avoids investments into stainless steel filter housings and eliminates additional costs for cleaning of housings and cleaning validation.

Documentation

Sartopure® PP2 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.

Technical Data

Specifications

Materials	
Filter Matrial	Polypropylene fleeces
Support fleece	Polypropylene
Core	Polypropylene
End Caps	Polypropylene
Capsule Housing	Polypropylene
O-Rings	Silicone

Retention Rates
0.65 µm
1.2 µm
3 µm
5 µm
8 µm
20 µm
50 µm

Available Sizes | Filtration Area

Mini Cartridges and MidiCaps®	
Size 7	0.05 m ² 0.5 ft ²
Size 8	0.10 m ² 1.1 ft ²
Size 9	0.2 m ² 2.2 ft ²
Size 0	0.45 m ² 4.8 ft ²

Cartridges and MaxiCaps®		
Size 1	10"	0.6 m ² 6.5 ft ²
Size 2	20"	1.2 m ² 12.9 ft ²
Size 3	30"	1.8 m ² 19.4 ft ²

Available Connectors

MidiCaps®
SS, SO, OO, FF, FO, HH (only size 7)

MaxiCaps®
SS, SO, OO, FF

- S: 1½" Tri-Clamp (Sanitary)
- O: ½" Single stepped hose barb
- F: ¾" Tri-Clamp (Sanitary)
- H: ¼" Multiple stepped hose barb (with filling bell at the outlet)

Operating Parameters	
Max. Allowable Differential Pressure	5 bar 72.5 psi at Differential Pressure: 20°C (MaxiCaps®, MidiCaps®) 2 bar 29 psi at 80°C (MidiCaps®) 3 bar 43.5 psi at 50°C (MaxiCaps®)
Max. Allowable Back Pressure	2 bar 29 psi at 20°C

Extractables

Sartopure® PP2 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

Sartopure® PP2 are free of pork DNA and drinkable alcohol.

Sterilization

Cartridges

In-Line Steam Sterilization: 134°C, 20 min. at max differential pressure of 0.5 bar | 7.25 psi

Autoclaving: 134°C, 2 bar, 30 min

T-Style MaxiCaps® | MaxiCaps® | MidiCaps®

Autoclaving: 134°C, 2 bar, 30 min

Capsules

Autoclaving: 134°C, 2 bar, 30 min

Sterilization Cycles

Cartridges

In-Line Sterilization: Min. 25

Autoclaving: Min. 25

T-Style MaxiCaps®

Autoclaving: Min. 5

MidiCaps®

Autoclaving: Min. 25

Capsules

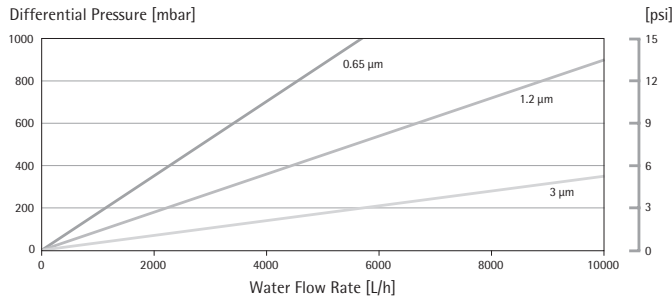
Autoclaving: Min. 25

T-Style MaxiCaps®, MidiCaps® and Capsules cannot be in-line steam sterilized

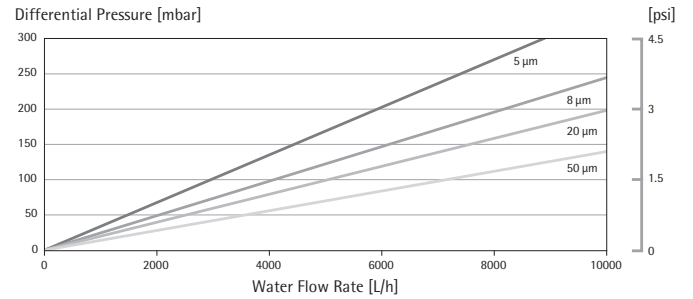
Technical References

Validation Guide	SPK5717-e
Extractables Guide	SPK5719-e

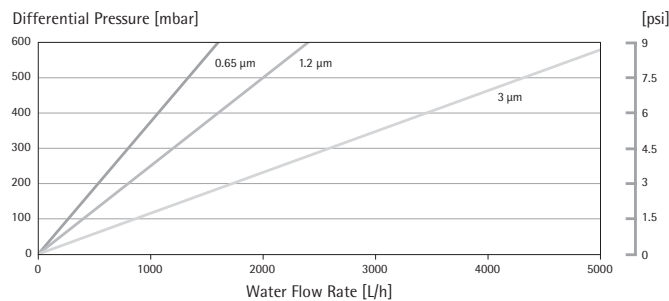
Water Flow Rates for Sartopure® PP2 Standard Cartridges
Sartopure® PP2 10" Standard Cartridges, 0.65 µm, 1.2 µm, 3 µm



Sartopure® PP2 10" Standard Cartridges, 5 µm, 8 µm, 20 µm, 50 µm

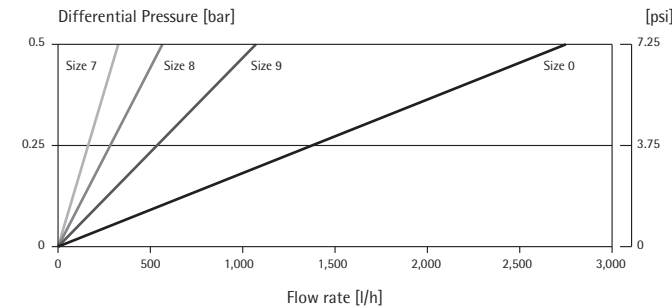


Water Flow Rates for Sartopure® PP2 Mini Cartridges
Sartopure® PP2 Mini Cartridges 0.2 m2, 0.65 µm, 1.2 µm, 3 µm.

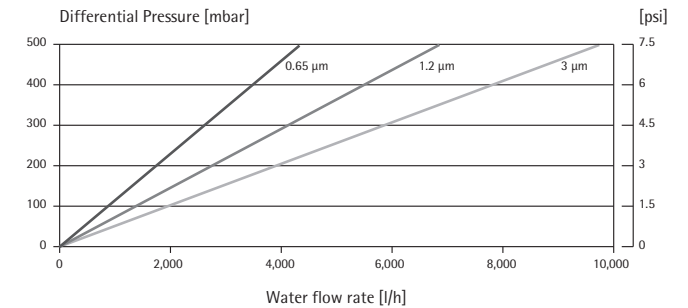


The flow rate is restricted at courser retention rates by the outlet

Water Flow Rates for Sartopure® PP2 0.65 µm MidiCaps® with SS inlet and outlet



Water Flow Rates for Sartopure® PP2 MaxiCaps® 0.65 µm and 1.2 µm with SS inlet and outlet



Ordering Information

Order Code	Retention Rate [µm]	Pack Size [Pieces]
MidiCaps®		
5595305Px--**--X	0.65	4 2 (only Size 0)
5595303Px--**--X	1.2	4 2 (only Size 0)
5595302Px--**--X	3.0	4 2 (only Size 0)
5595342Px--**--X	5.0	4 2 (only Size 0)
5595301Px--**--X	8.0	4 2 (only Size 0)
5595320Px--**--X	20.0	4 2 (only Size 0)
5595350Px--**--X	50.0	4 2 (only Size 0)

Order Code	Retention Rate [µm]	Pack Size [Pieces]
MaxiCaps®		
5597305Px--**	0.65	1
5597303Px--**	1.2	1
5597302Px--**	3.0	1
5597342Px--**	5.0	1
5597301Px--**	8.0	1
5597320Px--**	20.0	1
5597350Px--**	50.0	1

x: Size
 **: Connector Styles
 X: Pack Size (A = 4 pieces | V = 2 pieces)

Order Code	Retention Rate [µm]	Pack Size [Pieces]
Cartridges		
559**05Px	0.65	1
559**03Px	1.2	1
559**02Px	3.0	1
559**42Px	5.0	1
559**01Px	8.0	1
559**20Px	20.0	1
559**50Px	50.0	1

Order Code	Retention Rate [µm]	Pack Size [Pieces]
Mini Cartridges		
5591505Px-----B	0.65	5
5591503Px-----B	1.2	5
5591502Px-----B	3.0	5
5591542Px-----B	5.0	5
5591501Px-----B	8.0	5
5591520Px-----B	20.0	5
5591550Px-----B	50.0	5

** : Adapter Type
 x: Size

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