



Sartobran® P 0.2 µm

Sterilizing Grade Filter Cartridges



Description

Sartobran® P sterilizing grade filter cartridges have proven throughout the years to be the first choice in the bio-pharmaceutical industry for all applications requiring low adsorption capabilities. The unique ultra low unspecific binding capacity of the cellulose acetate membranes assures highest protein yield and rapid preservative recovery. Sartobran® P filters are ideally suited for processing high value biological solutions like dilute protein solutions and pharmaceuticals sensitive to adsorption like dilute preservative solutions.

Applications

Sartobran® P filters are ideally suited for all applications that require highest product recovery rates like:

- Coagulation Factors, Albumine, IgG
- Bacterial and Viral Vaccines
- MAB's
- Bio-processed Pharmaceuticals
- Diagnostics
- Purified Protein Solutions
- Biological Fluids
- Solutions containing Preservatives

Highest Product Yield

The Sartobran® P's cellulose acetate membrane provides the lowest unspecific adsorption of any membrane material available, ensuring the highest product recovery rates.

Performance

Due to the "built-in prefiltration" by a 0.45 µm membrane, Sartobran® P 0.2 µm filters provide excellent total throughputs and higher flow rates at low differential pressure for gentle product treatment.

Flexibility

Sartobran® P 0.2 µm filters are available in traditional cartridge formats and disposable capsules from 150 cm² to 1.8 m² for simple linear scale up and process flexibility.

Microbiological Retention

Sartobran® P 0.2 µm rated filter cartridges are fully validated as sterilizing grade filter elements according to HIMA and ASTM F-838-05 guidelines.

Quality Control

Each individual element is integrity tested by diffusion and bubble point test prior to release, assuring absolute reliability.

Documentation

Sartobran® P cartridges are designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System. A Validation Guide and Extractables Guide are available for compliance with regulatory requirements.

Specifications

Materials

| | |
|---------------------|-----------------------------------|
| Prefilter Membrane: | Cellulose Acetate |
| Endfilter Membrane: | Cellulose Acetate |
| Support Fleece: | Polypropylene |
| Core: | Polypropylene |
| End Caps: | Polypropylene |
| O-Rings: | Silicone (optional EPDM or Viton) |

Pore Size

0.45 µm + 0.2 µm

Available Sizes | Filtration Area

Cartridges

| | | | |
|--------|-----|--------------------|----------------------|
| Size 0 | 5" | 0.3 m ² | 3.2 ft ² |
| 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 |

Mini Cartridges

| | | |
|--------|---------------------|----------------------|
| Size 7 | 0.05 m ² | 0.54 ft ² |
| Size 8 | 0.1 m ² | 1.1 ft ² |
| Size 9 | 0.2 m ² | 2.2 ft ² |

Available Adapters Cartridges

21, 25, 27, 28

Available Adapters Mini Cartridges

15, 18

Operating Parameters

| | |
|---------------------------------------|---------------------------------------|
| Max. Allowable Differential Pressure: | 5 bar 72.5 psi at 20°C (Cartridges) |
| | 2 bar 29 psi at 80°C (Cartridges) |

| | |
|-------------------------------|------------------------|
| Max. Allowable Back Pressure: | 2 bar 29 psi at 20°C |
|-------------------------------|------------------------|

Specifications

Extractables

Sartobran® P 0.2 µm rated filter cartridges meet, or exceed the requirements for WFI quality standards set by the current USP.

Regulatory Compliance

100% Individually integrity tested

Integrity test correlated to HIMA/ASTM F 838-05 Bacteria Challenge Test

Non-pyrogenic according to USP Bacterial Endotoxins

Passes USP Plastics 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

Autoclaving

134 °C, 2 bar | 29 psi, 30 min

Sterilization Cycles

In-Line Sterilization: Min. 25
Autoclaving: Min. 25

Technical References

Validation Guide:

SPK 5726-e

Extractables Guide:

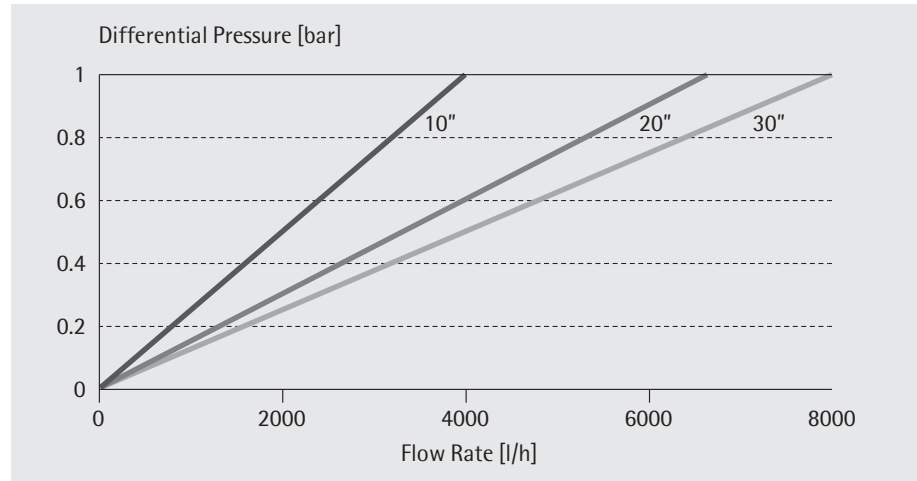
SPK5720-e

Ordering Information

| Order Code | Pore Size [µm] | Pack Size [Pieces] | Test Pressure [bar psi] | Max. Diffusion [ml/min] | Min. Bubble Point [bar psi] |
|----------------------------|----------------|--------------------|---------------------------|-------------------------|-------------------------------|
| Standard Cartridges | | | | | |
| 523**07H0----P | 0.2 | 1 | 2.5 36 | 10 | 3.2 46 |
| 523**07H1----P | 0.2 | 1 | 2.5 36 | 15 | 3.2 46 |
| 523**07H2----P | 0.2 | 1 | 2.5 36 | 30 | 3.2 46 |
| 523**07H3----P | 0.2 | 1 | 2.5 36 | 45 | 3.2 46 |
| Mini Cartridges | | | | | |
| 523**07H7-----B | 0.2 | 5 | 2.5 36 | 3 | 3.2 46 |
| 523**07H8-----B | 0.2 | 5 | 2.5 36 | 4 | 3.2 46 |
| 523**07H9-----B | 0.2 | 5 | 2.5 36 | 5 | 3.2 46 |

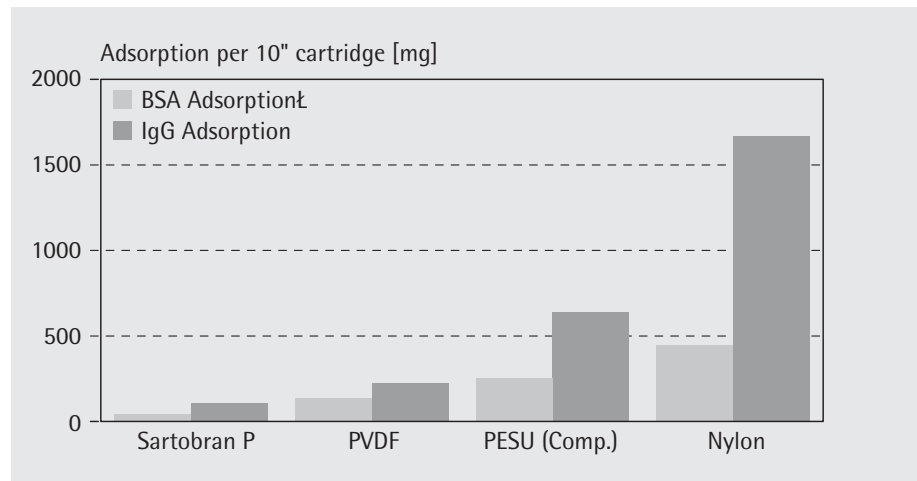
** : Adapter Type

Water Flow Rates for Standard Cartridges



Standardized at 20 °C

Total Throughput Comparison



10" Cartridge format

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