

# 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 cm<sup>2</sup> to 1.8 m<sup>2</sup> 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-838-83 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 | MaxiCaps

Size 1	10"	0.6 m <sup>2</sup>   6.5 ft <sup>2</sup>
Size 2	20"	1.2 m <sup>2</sup>   12.9 ft <sup>2</sup>
Size 3	30"	1.8 m <sup>2</sup>   19.4 ft <sup>2</sup>

##### Capsules | Mini Cartridges

Size 4	0.015 m <sup>2</sup>   0.16 ft <sup>2</sup>
Size 5	0.03 m <sup>2</sup>   0.32 ft <sup>2</sup>
Size 7	0.05 m <sup>2</sup>   0.54 ft <sup>2</sup>
Size 8	0.1 m <sup>2</sup>   1.1 ft <sup>2</sup>
Size 9	0.2 m <sup>2</sup>   2.2 ft <sup>2</sup>
Size 0	0.45 m <sup>2</sup>   4.8 ft <sup>2</sup>

#### Available Adapters Cartridges

21, 25, 27, 28

#### Available Adapter Mini Cartridges

15, 18

#### Available Connectors Capsules | MaxiCaps

SS, SO, 00

#### Operating Parameters

Max. Allowable Differential Pressure:	5 bar   75 psi at 20 °C (Cartridges)
	4 bar   58 psi at 20 °C (Capsules)
	3 bar   43.5 psi at 20 °C (MaxiCaps)
	2 bar   29 psi at 80 °C (Cartridges and Capsules)
Max. Allowable Back Pressure:	2 bar   29 psi at 20 °C

# Membrane Filter Cartridges

## 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 838-83 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 | 7.5 psi

### Note:

Capsules and MaxiCaps cannot be in-line steam sterilized.

### 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

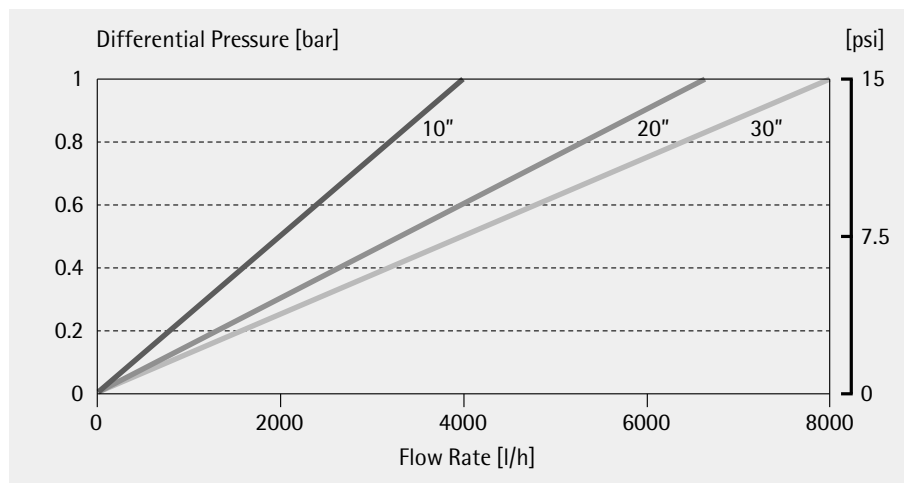
### Extractables Guide:

SPK5720-e

## Ordering Information

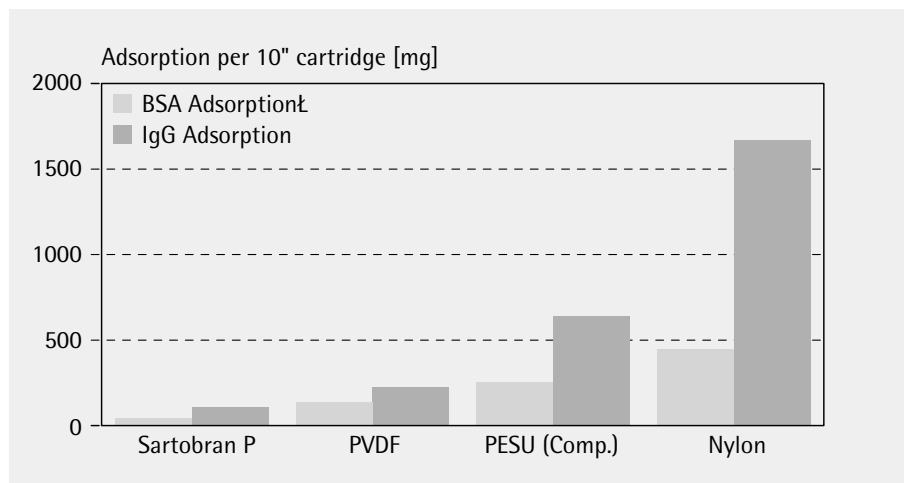
Order Code	Pore size [µm]
<b>Standard Cartridges</b>	
523**07H1----P	0.2
523**07H2----P	0.2
523**07H3----P	0.2
<b>Capsules</b>	
5231307H4---**--B	0.2
5231307H5--00--B	0.2
5231307H7--**--B	0.2
5231307H8--**--B	0.2
5231307H9---**--A	0.2
5231307H0---**--V	0.2

## Water Flow Rates for Standard Cartridges and MaxiCaps



Standardized at 20 °C

## Total Throughput Comparison



10" Cartridge format

Order Code	Pore size [µm]
<b>MaxiCaps</b>	
5231307H1--**	0.2
5231307H2--**	0.2
5231307H3--**	0.2
<b>Mini-Cartridges</b>	
5231507H7-----B	0.2
5231507H8-----B	0.2
5231507H9-----B	0.2

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