

Sartolon

Sterilizing Grade Filter Cartridges



Description

Sartolon sterilizing grade filter cartridges, MaxiCaps and capsules are designed for broad chemical compatibility for specific applications in the pharmaceutical and chemical industry. Their superior filtration performance compared to competitive nylon membrane filters allow more economical design of your filtration process.

Applications

Featuring a unique hydrophilic nylon membrane, Sartolon filters are ideally suited for sterilizing grade filtration of:

- Solvents
- Antibiotics
- Bulk Pharmaceutical Chemicals
- LVP

Compatibility

Sartolon filter elements are ideal for filtration of a broad range of solvents and liquids containing solvents. The Nylon membrane material provides a broad chemical compatibility especially for aggressive solvent solutions.

Performance

Sartolon filter elements offer higher total throughputs than any other sterilizing grade Nylon filter element on the market. The heterogeneous double layer construction provides higher total throughputs than homogeneous double layer types due to the "built-in prefiltration".

Microbiological Retention

Sartolon 0.2 µm rated filter elements 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

Sartolon filter elements 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:	Nylon
Endfilter Membrane:	Nylon
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 ²	6 ft ²
Size 2	20"	1.2 m ²	12 ft ²
Size 3	30"	1.8 m ²	18 ft ²

Mini Cartridges | Capsules

Size 9	0.2 m ²	2 ft ²
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Available Adapters Cartridges

21, 25, 27, 28

Available Adapter Mini Cartridges

15

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

Sartolon cartridges, MaxiCaps and capsules 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 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

(only cartridges)

Autoclaving: Min. 25

Technical References

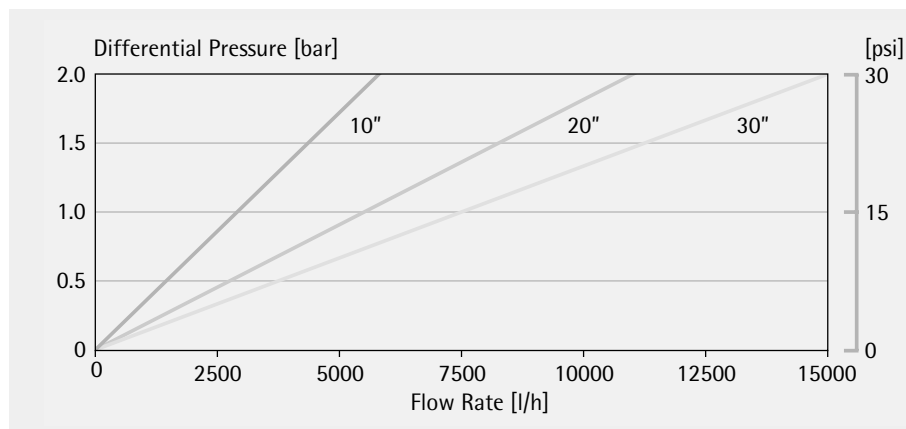
Validation Guide:

SPK5716-e

Extractables Guide:

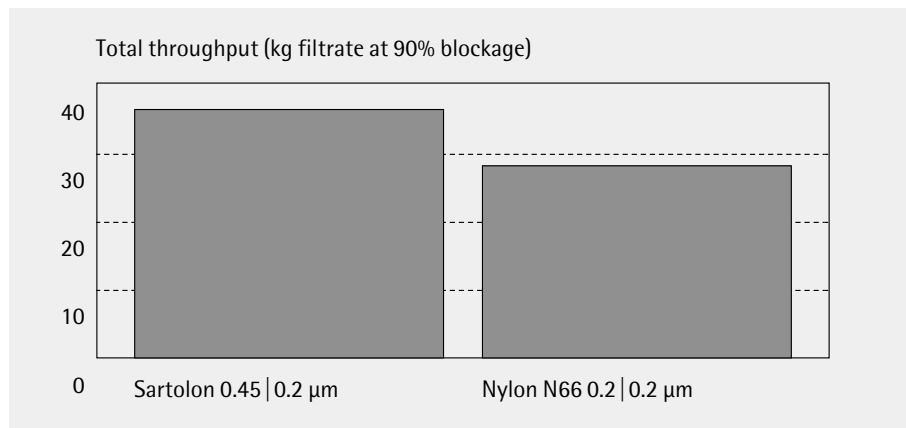
SPK5729-e

Water Flow Rates for 10", 20" and 30" Cartridges



Standardized at 20 °C

Total Throughput Comparison



10" Cartridge format

Ordering Information

Order Code	Pore size [µm]
Cartridges	
510**07H1	0.2
510**07H2	0.2
510**07H3	0.2
MaxiCaps	
5101307H1--**	0.2
5101307H2--**	0.2
5101307H3--**	0.2
Capsules	
5101307H9--**--A	0.2
Mini Cartridges	
5101507H9-----B	0.2

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