



# Sartofine® PP

Particle & Bioburden Reduction Filter Cartridges

Depth Filter Cartridges



## Description

Sartofine® filter cartridges contain no pleated filter layers. For application purposes, they feature a 14 mm thick multilayer, consisting of 4 to 7 different filter zones. The number of zones depends on the type of cartridge. Each zone, made up of polypropylene filter layers is a homogeneous depth filter itself. The nominal retention rating of the respective filter zones becomes increasingly finer in the direction of filtration. Therefore Sartofine® PP filters are ideally suited for all applications requiring exceptional high dirt holding capacities with added benefit of high total throughput.

## Applications

Whether in the bio-pharmaceutical or chemical industry, Sartofine® PP filter cartridges are used wherever liquids with a wide range of particle sizes need to be prefiltered or clarified. You can choose from 7 different retention ratings (0.5 µm to 40 µm), depending on the size of the particles to be removed. This variety allows you to select the filter type which best suits your particular application.

## Efficiency

Particle removal by fractionated depth filtration ensures optimal use of the entire multilayer which results in a long service life of the filter. The filtration efficiency is enhanced by the filter cake that can be build up within the depths of each filter zone. This filter cake allows colloids to be retained in the finer filter zones.

## Mechanical Stability

Sartofine® PP filter cartridges have been designed for daily routine use. Our special production method of wrapping the filter layers tightly around the supportive core of the cartridge provides high mechanical stability and eliminates the common problem of breakthrough right from the start. The thermally bonded exterior layer and our special welding technique for joining filter layers and end caps allow you to easily backflush the cartridges during cleaning at a pressure up to 3 bar (44 psi).

## Documentation

Sartofine® PP cartridges 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.

## Specifications

### Materials

Filter Material:	Multiple Polypropylene layers
Support Fleece:	Polypropylene
Core:	Polypropylene
End caps:	Polypropylene
O-Rings:	Silicone (optional EPDM or Viton)

### Retention Rates

0.5 µm, 0.7 µm, 1 µm, 3 µm, 5 µm, 10 µm, 15 µm, 20 µm, 40 µm

### Available Sizes | Filtration Area

#### Cartridges

Size 1	10"	0.05 m <sup>2</sup>   0.54 ft <sup>2</sup>
Size 2	20"	0.1 m <sup>2</sup>   1.1 ft <sup>2</sup>
Size 3	30"	0.15 m <sup>2</sup>   1.6 ft <sup>2</sup>
Size 4	40"	0.2 m <sup>2</sup>   2.2 ft <sup>2</sup>

### Available Adapters Cartridges

00, 03, 05, 07, 08

### Operating Parameters

Max. Allowable Differential Pressure:	5 bar   72.5 psi at 20°C
	2 bar   29 psi at 80°C
Max. Allowable Back Pressure:	2 bar   29 psi at 20°C

## Specifications

### Extractables

Sartofine® PP cartridges 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

## 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 5707-e

## Order Information

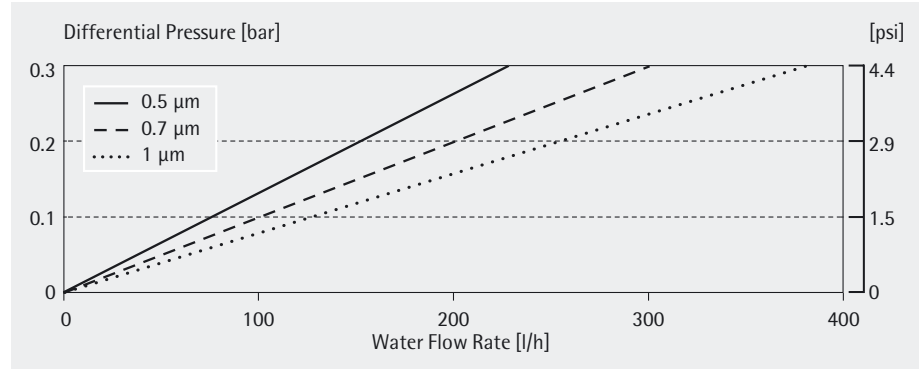
Order Code	Pore Size [µm]
<b>Cartridges</b>	
558**06Wx	0.5
558**05Wx	0.7
558**03Wx	1
558**02Wx	3
558**42Wx	5
558**10Wx	10
558**15Wx	15
558**20Wx	20
558**40Wx	40

## Legende

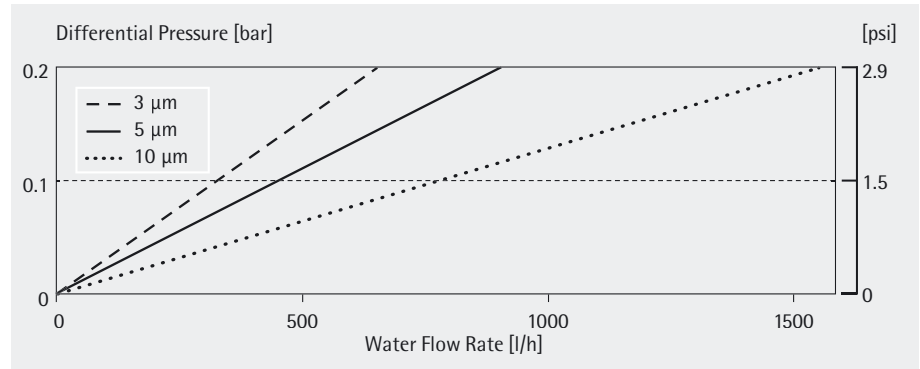
\*\* : Adapter Type

x : Size

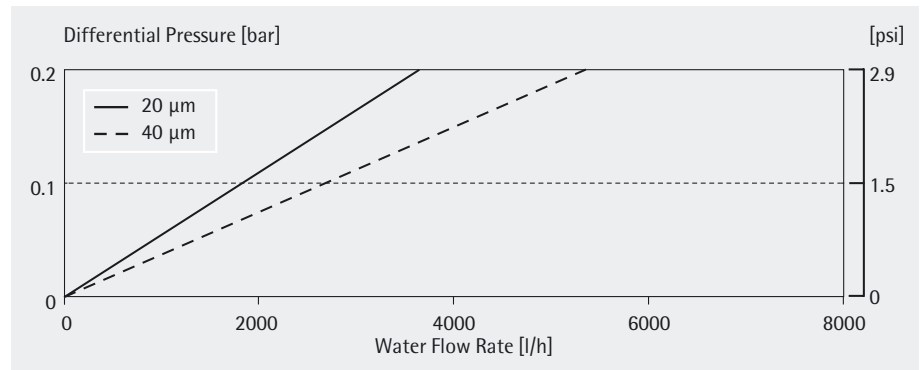
Sartofine® 10" Standard Cartridges, 0.5 µm, 0.7 µm, 1 µm



Sartofine® 10" Standard Cartridges, 3 µm, 5 µm, 10 µm



Sartofine® 10" Standard Cartridges, 20 µm, 40 µm



Sartorius Stedim Biotech GmbH  
August-Spindler-Strasse 11  
37079 Goettingen, Germany  
Phone +49.551.308.0  
Fax +49.551.308.3289  
www.sartorius-stedim.com

USA Toll-Free +1.800.368.7178  
UK +44.1372.737159  
France +33.442.845600  
Italy +39.055.63.40.41  
Spain +34.90.2110935  
Japan +81.3.3740.5407

Specifications subject to change without notice. Printed and copyrighted by Sartorius Stedim Biotech GmbH. | W  
Publication No.: SPK2048-e11066  
Order No.: 85030-516-85  
Ver. 06 | 2011