



**Jumbo Filters**  
Powerful Performance

## Jumbo filter cartridges...

...the big choice

### Features and benefits.

- Proven and FDA approved filter design
- Highest particle retention capability
- Highest flow rates and service life
- Effective combination of filter materials
- Minimum filtration costs

### About the Jumbo filter.

A Jumbo filter is a single filter element especially designed to match customer requirements for the filtration of huge quantities of liquids from 10.000 to 40.000 liter per hour. The large filter area inside a Jumbo filter of up to 42m<sup>2</sup> provides highest flow rates and total throughputs combined inside one single filter element. This enormous filter area can replace up to twenty four standard filter cartridges in 30".

Different pre- and membrane filter materials are used for the construction of a Jumbo filter to obtain best filtration results in terms of flow rate and total throughput.

The different combinations of polypropylen filter layers, glasfiber filter layers and membrane filter material prevents breakthrough of particles, colloids and bio burden and thus protect the subsequent standard filter cartridge line. It's the unique design of the Jumbo filter that requires much less work in terms of set up time compared to standard filter cartridge technology or other filtration equipment.

Jumbo filters are used in closed filter housings, they have low hold up volumes and allow easy and hygienic processing.

### Jumbo filter and FDA approval.

All materials used for the construction of Jumbo filters meet FDA requirements and are approved for use in F&B applications without any restrictions.



## Meeting customer requirements ...applications

### Filtration of wine and sparkling wine.

Jumbo filter cartridges are ideally suited for the filtration of wine and sparkling wine. You can choose a wide selection of filters for both wine and sparkling wine applications.

Major applications for Jumbo in wineries include:

- Last prefiltration run (last cellar filtration) with **Sartoclean SC30**
- Prefiltration with **Sartoclean SC12** upstream of membrane filtration
- Clarification with **Sartopure PP**

For wine filtration, the Jumbo filter cartridge offers the following important benefits:

- Easier to handle and less expensive than pad filters
- Reduces the cost of your operations
- Ensures exact retention ratings
- Requires less rinse water
- Compact, closed filter system
- Easy to sterilize

Beginning with clarification of the basic wine in sparkling wine- or champagne-making, Jumbo cartridges of the types Sartopure PP and Sartoclean SC 30 are used to obtain a yeast-free and stable filtrate.

After fermentation of a sparkling wine, Jumbo filter cartridges of the types Sartopure PP and Sartoclean SC 30 are also used for polishing filtration.

SC 12 is ideal for prefiltration upstream of final filtration before bottling.

Jumbo filter cartridges at any points of use guarantee smooth production operations.

### Filtration of water.

Sartorius offers a variety of Jumbo filter cartridges made to deliver the specific results desired for filtration of water.

Two different Jumbo filter cartridges are available for particle-removing filtration specifically in the range from 0.2 to 50 µm and for clarification and reduction of suspended particles.

- **Sartopure PP** specifically for particle-removing filtration
- **Sartopure DGF** for clarification and reduction of suspended particles

Both types do the "heavy work" of removing particles, ensuring an optimal in-service life of downstream membrane filter systems. The compact construction of Jumbo filter cartridges enables you to integrate them easily into any filtration system, no matter how high the flow rate performance.



### Filtration of beer.

Sartorius offers a Jumbo filter cartridge optimally designed for beer filtration:

- **Sartopure PP**  
for particle removal downstream of diatomaceous earth|PVPP filters

This cartridge is available in a choice of different retention ratings for reliable particle removal. The most commonly preferred ratings are between 8 and 20 µm according to our experience. Jumbo Sartopure PP filter cartridges are ideal for this application. Even under the most severe conditions, they trap any particles that may have broken through upstream filtration stages, thus ensuring a particle-free filtrate.

The economy of this application is further enhanced by the use of chemically resistant materials that allow unlimited CIP cleaning.

### Filtration of spirits.

Sartorius supplies 2 Jumbo filter types as well for the filtration of spirits:

- **Sartopure PP**  
specifically for particle-removing filtration
- **Sartopure DGF**  
for clarification and chill haze removal

These Jumbo filter cartridges are widely used to "brighten up" cloudy spirits, such as schnapps. The cartridges' optimal combination of filtration efficiency and economy guaranteed by Jumbo's proprietary design gives you the best solution for this application as well.



## Sartorius – your knowledgeable partner for filtration

### Quality from start to finish!

All Sartorius filter cartridges are required to pass stringent in-process quality control tests.

Completely traceable documentation of the entire manufacturing process of Jumbo cartridges is guaranteed by our stringent quality assurance policy that is certified for compliance with ISO 9001. This results in consistently high product quality ranging

from raw materials to the finished product. Establishing a good partnership with our customers is our No. 1 priority. That's why Sartorius offers not only excellent products, but also an international customer support service network that will make your daily work easy.

Our experienced engineers are ready to assist you in solving your filtration problems.

### Order Information

Product Name	Application	Adapter	Retention Rating   Pore Size (µm)	40" Height	20" Height	10" Height
Sartoclean SC12	Wine prefiltration upstream of the final filter	40*	1.2	5864003J4-WF	5864003J5-WF	
Sartoclean SC30	Last prefiltration run (last cellar filtration)	40*	3.0	5664002J4-KG	5664002J5-KG	
Sartopure DGF	Prefiltration of water	40*	0.65	5544005J4-SP		
	Prefiltration of water	40*	0.8	5544004J4-SP	5544004J5-SP	
Sartopure PP	Particle-removing filtration (clarification of wine + sparkling wine/champagne, removal of tartrates, removal of particles from beer)	40*	0.2	5524007J4-PF	5524007J5-PF	
			1.2	5524003J4-PF	5524003J5-PF	
			3.0	5524002J4-PF	5524002J5-PF	
			5.0	5524042J4-PF	5524042J5-PF	
			8.0	5524001J4-PF	5524001J5-PF	
			20.0	5524020J4-PF	5524020J5-PF	
			50.0	5524050J4-PF	5524050J5-PF	
Sartopure PP	Sterile filtration of air for venting large tanks	30	0.2			5523007J1-GA

\* Further adapter types available on request

Sartorius AG  
Weender Landstrasse 94-108  
37075 Goettingen, Germany

Phone +49.551.308.0  
Fax +49.551.308.3289

[www.sartorius.com](http://www.sartorius.com)

Sartorius Corporation  
131 Heartland Boulevard,  
Edgewood, New York 11717, USA

Phone +1.631.2544274  
Fax +1.631.2544253  
Toll-Free +1.800.3687178

Sartorius Limited  
Longmead Business Centre  
Blenheim Road, Epsom, Surrey  
KT199QN, Great Britain

Phone +44.1372.737100  
Fax +44.1372.729972

Sartorius S.A.  
4, rue Emile Baudot  
91127 Palaiseau, France

Phone +33.1.69192100  
Fax +33.1.69200922

Sartorius S.p.A  
Via dell'Antella, 76/A  
50011 Antella (FI), Italy

Phone +39.055.634041  
Fax +39.055.6340526

Sartorius K.K.  
No. 3 Hoya Building 8-17  
Kamitakaido 1-chome  
Suginami-ku  
Tokyo 168-0074, Japan

Phone +81.3.33295533  
Fax +81.3.33295543

Sartorius S.A.  
C/Isabel Colbrand 10-12  
Edificio Alfa III  
planta 4, of. 121  
28050 Madrid, Spain

Phone +34.91.3586100  
Fax +34.91.3588804