Jumbo Star Sartopure®
High Capacity Particle & Bioburden Reduction Filter Cartridges for Beverage Applications

Benefits

- Extend the life time of the final membrane filter before filling if used as prefilter before bottling
- Reduce filter consumption
- Highest filtration area on smallest footprint: reduce hardware investment costs
- Robustness & configuration adapted to backwash
- Quick installation

Product Information

With the new Jumbo Star Sartopure® 0.45 µm Sartorius introduces the finest available fleece material on the market to the food and beverage industry. The new fleece material shows an unmatched total throughput, particle retention, protective abilities of the final membrane filtration before filling at an extreme flow rate. The all polypropylene construction makes it resistant to all common cleaning chemicals and numerous sterilization cycles.

Jumbo Star Sartopure® cartridges combine the highest filtration area on the smallest footprint on the market. Particle-rich beverages can be filtered with Jumbo Star cartridges that are easily and efficiently backwashed with water. This allows for a significant reduction of filtration area, filter consumption and overall costs for filtration. Sartopure® Jumbo Star filter cartridges are available in the widest range of retention rates and their modular design allows the adaptation to all production requirements.

Applications

- Prefiltration upstream of the final membrane filtration before filling (water, wine and beer applications)
- Trapfiltration downstream of the diatomaceous earth | PVPP filter for beer industry
- Clarification step in winery and distillery
- Retention of tartar crystals after cold treatment of wine

- Retention of particles, reduction of colloids and bioburden in water, wine and beer and in alcohol production, also for venting large tanks
- Possibility of use on raw wine as an alternative to Kieselghur filter or Cross-flow filter or as cellar filter after tartaric stabilization
Specifications

Materials
- Filter Material: Multiple Polypropylene layers
- Support Fleece: Polypropylene
- Core: Polypropylene
- End Caps: Polypropylene
- O-Rings: Silicone

Retention Rates
- 0.45 µm, 0.65 µm, 1.2 µm, 3 µm, 5 µm, 8 µm, 20 µm

Available Sizes | Filtration Area
--- | ---
Size 1 | 10" | 7 m²
Size 2 | 20" | 14 m²
Size 3 | 30" | 21 m²
Size 4 | 40" | 28 m²

Available Adapter
40

Operating Parameters
- Max. Allowable Differential Pressure: 4 bar | 58 psi at 20°C
- 1 bar | 15 psi at 80°C
- 0.5 bar | 7.5 psi at 120°C
- Max. Allowable Back Pressure: 1.5 bar | 22 psi at 20°C

Sterilisation
- Hot water at 85 – 95°C, 30 minutes, ΔP max 0.5 bar
- Steam at 110°C, 30 minutes, ΔP max 0.5 bar
- Sterilization cycles: min. 100

Technical Data

Water Flow Rates for 10" Cartridges

Flexibility
The modular concept allows the ideal adaptation to production requirements from 7 m² to 28 m² of filtration area.
### Ordering Information

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Retention Rate [µm]</th>
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<tbody>
<tr>
<td>5504006JX</td>
<td>0.45 µm</td>
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<td>5594005JX</td>
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<td>5594003JX</td>
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<td>8.0 µm</td>
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<tr>
<td>5594020JX</td>
<td>20.0 µm</td>
</tr>
</tbody>
</table>

X = 1  Size 10"
X = 2  Size 20"
X = 3  Size 30"
X = 4  Size 40"
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