Microsart® @filter 100 | 250
Sterile single-use filter units featuring a click-fit closure

User Benefits

- Fully single-use design and sterile packaging help prevent secondary contamination
- Reliable results as no liquid remains after filtration
- Click-fit closure for fast routine analysis without the risk of leakage
- Transparent funnel for easy monitoring of the filtration progress
- Economical as the unit fits on multibranch manifolds – no added investment needed

Product Information

The key to manufacturing competitive products and maintaining conformity is effective quality assurance. Microorganisms in liquids are quantified by the membrane filtration method as it allows accurate enumeration of bacteria, yeasts and molds when low counts in a high sample volume are anticipated. All components of the filtration system used in this method must comply with international guidelines, such as USP, EP or ISO standards.

Description
Ready-to-use, sterile Microsart® @filter units combine a funnel and a gridded membrane filter all in one unit. They have been specifically developed for the detection and enumeration of microorganisms in pharmaceuticals, cosmetics, food, beverages, water and other liquids. For sample volumes of up to 100 mL, Microsart® @filter 100 is the ideal device; larger sample sizes can be easily filtered by Microsart® @filter 250. Graduated marks on these units allow accurate sample volumes. In addition, their optimized design permits thorough rinsing of the system subsequent to filtration. No liquid is retained in the filter funnel. Optimal sealing to the 47 mm Microsart® Base is guaranteed by the bayonett closure. Microsart® @filter units, together with prefilled Microsart® @media agar dishes, constitute an innovative single-use system for transfer of membranes to these media without using tweezers.

Microsart® @vance
The Microsart® @filter units and Microsart® @media prefilled agar dishes are part of the Microsart® @vance product family that stands for cutting-edge products for microbiological analyses based on microbial enumeration. This product line excels in reducing workloads while eliminating the risk of contamination as only a few steps are needed from sampling to incubation.

Microsart® @filter packaging types
Microsart® @filter units are available in a choice of packages: either the filtration units are individually sterile packed in bags, packaged on trays for use in clean benches or in bags for use with the convenient Microsart® Funnel Dispenser. Both single sterile packed as well as the tray version are coming with one lid each.
Specifications

<table>
<thead>
<tr>
<th>Materials</th>
<th>Funnel: Polypropylene</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Base: ABS (acrylonitrile butadiene styrene)</td>
</tr>
<tr>
<td>Membrane filter</td>
<td>Cellulose nitrate (cellulose ester); regenerated cellulose; choice of various colors and grids</td>
</tr>
</tbody>
</table>

| Capacity        | 100 mL; graduated marks at 20, 50 and 100 mL |
|-----------------| 250 mL; graduated marks at 50, 100, 200 and 250 mL |

| Filter diameter | 47 mm, prefiler 40 mm (particle testing only) |
|-----------------| 13.2 cm² |
| Max. operating pressure | Vacuum only |

Sterilization | Gamma irradiation |
Lot certificate | Recovery rate, sterility and performance test |

Applications

Microbial enumeration, particle testing and microscopy

A small sampling of the many advantages you will benefit from when using Microsart® filter units:

**Reliable results**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile-packaged</td>
<td>No sterilization at the point of use required</td>
</tr>
<tr>
<td>Fully single-use base and funnel</td>
<td>Preparation- and sterilization-free procedure reduces the risk of secondary contamination</td>
</tr>
<tr>
<td>Optimized design and materials</td>
<td>No liquid remains after filtration; eliminates the need for rinsing</td>
</tr>
</tbody>
</table>

**Easy use**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Click-fit closure</td>
<td>Fast for routine analysis; eliminates the risk of leakage</td>
</tr>
</tbody>
</table>

**Economy**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fits on CombiSart®</td>
<td>Provides flexibility; no additional investment required</td>
</tr>
<tr>
<td>Transparent funnel material</td>
<td>Progress of an entire filtration run easy to track</td>
</tr>
</tbody>
</table>

**Ordering Information**

**Microsart® filter 100**, sterile single-use filter units with lid, 47 mm, 100 mL, packaged on trays, ideal for use in clean benches, 24 units

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Membrane filter* color</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN white</td>
<td>black</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN gray</td>
<td>white**</td>
</tr>
<tr>
<td>0.45</td>
<td>CN green</td>
<td>dark green</td>
</tr>
<tr>
<td>0.45</td>
<td>RC white (w/o grid)</td>
<td>16D05--10-06--TG**</td>
</tr>
</tbody>
</table>

**Microsart® filter 250**, sterile single-use filter units with lid, 47 mm, 250 mL, packaged on trays, ideal for use in clean benches, 16 units

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Membrane filter* color</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN white</td>
<td>black</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN gray</td>
<td>white**</td>
</tr>
<tr>
<td>0.45</td>
<td>CN green</td>
<td>dark green</td>
</tr>
<tr>
<td>0.65</td>
<td>CN gray</td>
<td>white**</td>
</tr>
</tbody>
</table>
Microsart® @filter 100, sterile single-use filter units, 47 mm, 100 mL, stacked and packaged in bags, ideal for use with Microsart® Funnel Dispenser, 60 units

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Membrane filter* color</th>
<th>Grid color</th>
<th>Order no.</th>
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<tbody>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
<td>16D01--10-07--BL</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN white</td>
<td>black</td>
<td>16D01--10-H6--BL</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN gray</td>
<td>white**</td>
<td>16D03--10-H6--BL</td>
</tr>
<tr>
<td>0.45</td>
<td>CN green</td>
<td>dark green</td>
<td>16D02--10-06--BL</td>
</tr>
<tr>
<td>0.45</td>
<td>RC white (w/o grid)</td>
<td></td>
<td>16D05--10-06--BL***</td>
</tr>
</tbody>
</table>

Microsart® @filter 250, sterile single-use filter units, 47 mm, 250 mL, stacked and packaged in bags, ideal for use with Microsart® Funnel Dispenser, 48 units

<table>
<thead>
<tr>
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<th>Membrane filter* color</th>
<th>Grid color</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
<td>16D01--25-07--BK</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN white</td>
<td>black</td>
<td>16D01--25-H6--BK</td>
</tr>
<tr>
<td>0.45, High Flow</td>
<td>CN gray</td>
<td>white**</td>
<td>16D03--25-H6--BK</td>
</tr>
<tr>
<td>0.45</td>
<td>CN green</td>
<td>dark green</td>
<td>16D02--25-06--BK</td>
</tr>
<tr>
<td>0.65</td>
<td>CN gray</td>
<td>white**</td>
<td>16D03--25-05--BK</td>
</tr>
</tbody>
</table>

Microsart® @filter 100, individually sterile packed, 100 ml capacity, with covers, 27 pieces

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Membrane filter* color</th>
<th>Grid color</th>
<th>Order no.</th>
</tr>
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<tbody>
<tr>
<td>0.45 High Flow</td>
<td>CN white</td>
<td>black</td>
<td>16D01--10-H6-ACG</td>
</tr>
<tr>
<td>0.45 High Flow</td>
<td>CN black</td>
<td>white</td>
<td>16D03--10-H6-ACG</td>
</tr>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
<td>16D01--10-07-ACG</td>
</tr>
</tbody>
</table>

Microsart® @filter 250, individually sterile packed, 250 ml capacity, with cover, 18 pieces

<table>
<thead>
<tr>
<th>Pore size</th>
<th>Membrane filter* color</th>
<th>Grid color</th>
<th>Order no.</th>
</tr>
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<tbody>
<tr>
<td>0.45 High Flow</td>
<td>CN white</td>
<td>black</td>
<td>16D01--25-H6-ACF</td>
</tr>
<tr>
<td>0.45 High Flow</td>
<td>CN black</td>
<td>white</td>
<td>16D03--25-H6-ACF</td>
</tr>
<tr>
<td>0.2</td>
<td>CN white</td>
<td>black</td>
<td>16D01--25-07-ACF</td>
</tr>
</tbody>
</table>

Microsart® Funnel Dispenser

Microsart® Funnel Dispenser for contamination-free removal of individual, sterile Microsart® @filter units

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16A08</td>
</tr>
</tbody>
</table>

Microsart® Base

Base, 47 mm, with frit, stainless steel, for attaching Microsart® @filter units to Combisart® and Microsart® Combi.jet manifolds

<table>
<thead>
<tr>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1ZU---0002</td>
</tr>
</tbody>
</table>

* CN = Cellulose Nitrate (Cellulose Ester), RC = Regenerated Cellulose
** Gray membranes, black after wetting
*** This Microsart® @filter type cannot be used with Microsart® @media.
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