



## Microsart® e.motion Membrane Filters

### Benefits

#### Reliable colony count

Various filter colors and distinctly visible gridlines provide the best contrast with the colonies

#### Increased efficiency

New Big Packs allow full shift working without reloading

#### Visible traceability

All relevant information on each filter box and each membrane filter cell



### Product Information

Sartorius membrane filters not only feature the widest selection, three different filter colors, two different diameters and a variety of pore sizes. The various filter colors and distinctly visible gridlines provide the best contrast with the colonies for easy and reliable quantification and identification. The membrane filter band specially designed for the Microsart® e.motion dispenser can be conveniently inserted and easily changed, as needed.

Sartorius' experience in the design and continuous enhancement of membrane filters are also reflected in the results they deliver:

- High recovery rates of microorganisms
- The morphology and color of microorganisms be clearly identified
- Extremely fast filtration rate
- Unique grid lines make counting easy
- Compliance with the currently valid international standards, regulations and guidelines

For complete traceability, the membrane filter type, diameter, lot number and a sequential number (from 250 to 1) are printed on the paper of every membrane cell. The membrane filters' quality and compliance with current standards and regulations, such as ISO 7704 for all 0.45 µm membrane filters, are confirmed by the certificate supplied inside each box of membrane filters.

#### High Throughput

Your time is limited when you have to handle highly repetitive processes and heavy workloads day by day. In this case an efficient and ergonomic workflow is needed. The new Big Packs with a capacity of 250 membrane filters allow full shift working without the necessity of reloading the Microsart® e.motion dispenser. For efficient workflows and less interruptions!

Benefit from Sartorius' long-standing expertise in microbiological quality control and choose from a wide range of dedicated products for microbial enumeration – and more. Our comprehensive selection of membrane filters, filtration units, filtration systems and culture media will help you reach the highest levels of safety with reproducible, reliable results for in-process and final release testing – while streamlining your workflow and simplifying your testing procedures.

## Technical Data

### Microsart® e.motion Membrane Filter

#### Design

The membrane filters have a diameter of 47 or 50 mm, and are white, green or gray, and gridded. The grid divides the filter area into 130 squares; each measures 3.1 × 3.1 mm.

#### Sterilization

Gamma irradiation

#### Growth Test acc. to ISO 7704

Bacteria recovery tests performed with Sartorius membrane filters have shown that the growth and development of sensitive bacteria are not adversely affected or inhibited by the grid lines, the sterilization process or any extractable substances in the membrane.

#### Sterility Test

No growth

#### Thickness

acc. to DIN 53105, 115–145 µm

#### Thermal Resistance

130°C max.

#### Chemical Compatibility

Aqueous solutions (pH 4–8), hydrocarbons and various other organic solvents.

In addition, the certificate included in each package of Sartorius membrane filters confirms that they have been manufactured by applying the latest GMP standards. The development, production and distribution of these filters are subject to our stringent quality management system that has been certified for compliance with DIN|ISO 9001.

### Typical Performance Data of Various Membrane Filter Types

Pore size		0.2 µm <sup>1)</sup>	0.45 µm <sup>2)</sup>	0.45 µm <sup>2)</sup> High Flow	0.65 µm
Water flow rate per cm <sup>2</sup> at 1 bar acc. to DIN 58355	in ml/min	20	70	100	130
Retention of coliforms	in %	100	100	100	n.a.
Recovery rate acc. to ISO 7704 as a batch release criterion	in %	≥ 90	≥ 90	≥ 90	≥ 90

## Ordering Information

Order No.	Pore Size	Membrane Filter Color   Grid Color	Diameter	Qty. per Pkg.
<b>Big Packs</b>				
114H6Z-47----SJR	0.45 µm High-Flow	White   Black	47mm	4 × 250
130H6Z-47----SJR	0.45 µm High-Flow	Gray*   White	47 mm	4 × 250
<b>Membrane Filters, Cellulose Mixed Ester (Cellulose Nitrate)</b>				
11407Z-47----SCM	0.2 µm	White   Black	47 mm	3 × 100
11407Z-50----SCM	0.2 µm	White   Black	50 mm	3 × 100
114H6Z-47----SCM	0.45 µm High-Flow	White   Black	47 mm	3 × 100
114H6Z-50----SCM	0.45 µm High-Flow	White   Black	50 mm	3 × 100
11406Z-47----SCM	0.45 µm	White   Black	47 mm	3 × 100
11406Z-50----SCM	0.45 µm	White   Black	50 mm	3 × 100
11404Z-47----SCM	0.8 µm	White   Black	47 mm	3 × 100
11404Z-50----SCM	0.8 µm	White   Black	50 mm	3 × 100
11403Z-47----SCM	1.2 µm	White   Black	47 mm	3 × 100
11403Z-50----SCM	1.2 µm	White   Black	50 mm	3 × 100
11402Z-47----SCM	3 µm	White   Black	47 mm	3 × 100
139H6Z-47----SCM	0.45 µm High-Flow	White   Green	47 mm	3 × 100
13906Z-47----SCM	0.45 µm	White   Green	47 mm	3 × 100
13906Z-50----SCM	0.45 µm	White   Green	50 mm	3 × 100
13806Z-47----SCM	0.45 µm	Green   Dark green	47 mm	3 × 100
13806Z-50----SCM	0.45 µm	Green   Dark green	50 mm	3 × 100
130H6Z-47----SCM	0.45 µm High-Flow	Gray*   White	47 mm	3 × 100
130H6Z-50----SCM	0.45 µm High-Flow	Gray*   White	50 mm	3 × 100
13006Z-47----SCM	0.45 µm	Gray*   White	47 mm	3 × 100
13006Z-50----SCM	0.45 µm	Gray*   White	50 mm	3 × 100
13005Z-47----SCM	0.65 µm	Gray*   White	47 mm	3 × 100
13005Z-50----SCM	0.65 µm	Gray*   White	50 mm	3 × 100
13004Z-47----SCM	0.8 µm	Gray*   White	47 mm	3 × 100
13004Z-50----SCM	0.8 µm	Gray*   White	50 mm	3 × 100
130H6Z-47----SCM	0.45 µm High-Flow	Gray*   White	47 mm	3 × 100
<b>Membrane Filters, Other Materials</b>				
15406Z-47----SCM	0.45 µm Polyethersulfone	White	47 mm	3 × 100
18406Z-50----SCM	0.45 µm Regenerated Cellulose	White	50 mm	3 × 100
<b>Dispenser</b>				
<b>Order No.</b>	<b>Description</b>			
16713----BO	Microsart® e.motion dispenser with integrated battery and power supply			
16713----PS	Microsart® e.motion dispenser with power supply only			

\* Gray membrane filters turn black when wet

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