



sartorius

Minisart[®] Syringe Filter Family The Easy Choice – Clean and Safe



turning science **into solutions**

Minisart® NML Standard Syringe Filters

Minisart® NML Standard syringe filters with housing made of methacrylate butadiene styrene (MBS) are the perfect choice for sterile filtration and clarification of additives, buffers, reagents, liquids and gases.

Minisart® PP Standard Syringe Filters

Reliable removal of particles from liquids and gases. Minisart® Standard syringe filters with polypropylene housing are optimized for filtration prior to analytics and withstands even harsh solvents and chemicals.

CE-Minisart® Syringe Filters

For Medical Use

The Sartorius CE-Minisart® syringe filters with a hydrophilic (surfactant-free) cellulose acetate ((SF)CA) and hydrophobic polytetrafluoroethylene (PTFE) membrane are the perfect choice for pharmacy admixture applications like sterile filtration and | or clarification of low volume solutions in a laboratory environment before use for patient care. The CE-Minisart® syringe filters are manufactured by Sartorius in a facility whose Quality Management System is certified for compliance with EN ISO 13485.

Standard Minisart® Syringe Filters without CE marking are not for medical use.









Standard Minisart® -Help-to-Find

Please refer to Minisart® Standard RC, NY or SRP for the highest chemical compatibility, page 8.
Please refer to Minisart® Standard NML or Minisart® Standard High Flow on page 12.

Sample Composition	Aqueous		Aqueous Solvents		
	All Aqueous Solutions Buffers, Protein Analysis	All Aqueous Solutions Tissue Culture Media	Aqueous Solvent Mixtures Solvents	Solvent Mixtures Solvents	Solvents Gases Acids Bases
	CA Cellulose Acetate	PES Polyethersulfone	RC Regenerated Cellulose	NY Polyamide, Nylon	PTFE Polytetrafluoroethylene
	Hydrophilic				Hydrophobic

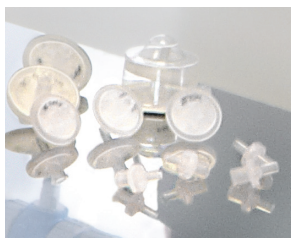
Pore Sizes	Sterilization		Sample Preparation Clarification Particle Removal					Prefiltration
	Small Bacteria Mycoplasma Colloids >0.1 µm	UHPLC, etc. (Columns <3 µm Particles) Bacteria	HPLC, etc. (Columns >3 µm Particles) Particles	Particles Yeast Cells	Particles Yeast Cells	Particles Yeast Cells Platelets	Large Particles Cells	Glass Pre-Filter Glass + Membrane Highly Particle- laden Samples
	0.1 µm	0.2 µm	0.45 µm	0.65 µm	0.8 µm	1.2 µm	5 µm	GF (Glass Fibre)

Sample Volume				
	1 – 200 mL	1 – 100 mL	0.5 – 15 mL	0.05 – 1 mL
	28 mm for up to 200 mL	25 mm for up to 100 mL	15 mm for up to 15 mL	4 mm for up to 1 mL

Minisart® Syringe Filter Family

A full range of filters dedicated for various filtration applications

Minisart® PP Standard Syringe Filters



Sample Preparation HPLC | UHPLC | Analytics

Elimination of particles from your samples prior to HPLC or other chromatographic analysis is essential in order to maintain the integrity of your chromatography column and to maximize its operating life time.

Minisart® syringe filters optimized for sample preparation consist of a PP housing and membrane components featuring maximum chemical compatibility and minimum extractables to ensure excellent results. Due to the typical range of volumes from less than 1 mL to 100 mL these filters are available in three different diameters with an effective filtration area of 0.07 cm², 1.7 cm² and 4.8 cm². See page 6.

Minisart® NML Standard Syringe Filters



Filtration of Aqueous Liquids | Clarification | Sterile Filtration

For optimal results Minisart® filters made of MBS housing provide a choice of membranes with pore sizes ranging from 0.1 µm to 5 µm for high flow rates and low adsorption characteristics. The effective filtration area of 6.2 cm² for fast filtration is the biggest amongst premium syringe filters and the MBS housing is color-coded for easy pore size identification. See page 10.

CE-Minisart® Syringe Filters



Medical Use

CE-Minisart® syringe filters are ideal for sterile filtration and clarification of liquids laden with particles, e.g. for preparation of pharmaceuticals or infusion solutions. For sterilization and removal of particles from air and other gases, the CE-Minisart® syringe filters with a PTFE membrane are optimal for sterile venting of containers in medical uses. See page 14.

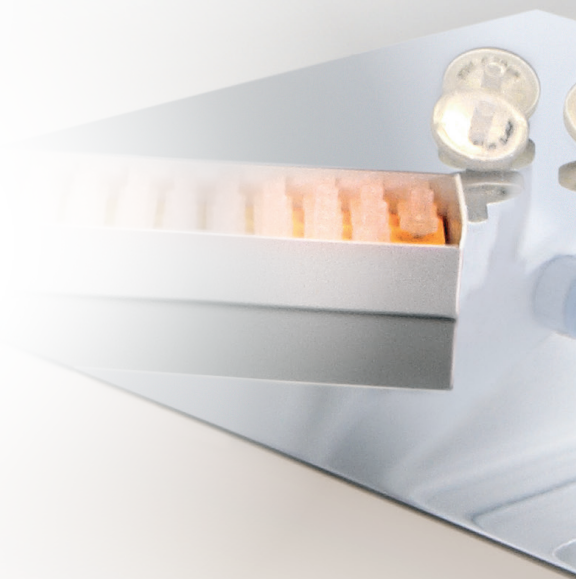
Standard Minisart® Syringe Filters without CE marking are not for medical use.

Minisart® PP Standard Syringe Filters

Sample Preparation for Analytics

Reliable Removal of Particles from Liquids and Gases

Particle removal via filtration prior to analytics substantially increases the lifetime of your columns. Minisart® RC is optimized for aqueous liquids as well as solvents and is stable against DMSO, other amides, ketones, esters and ethers. Minisart® NY is exceptionally pure compared to other common polyamide (=nylon) filters and competitor products. For this product raw materials are used which do not interfere with standard analytical methods. Our coating-free hydrophobic PTFE membrane used in Minisart® SRP is suitable for venting applications.



Minisart® Features

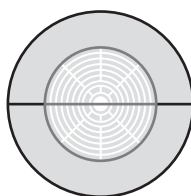
- Low adsorption of analytes
- Maximum chemical compatibility
- Minimum extractables



4 mm effective filtration diameter
12 mm housing diameter



4 mm packs are colour-coded



15 mm effective filtration diameter
24.5 mm housing diameter



Minisart® SRP 15 mm



Minisart® NY 15 mm



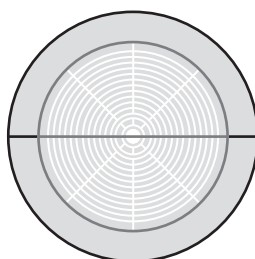
Minisart® RC 15 mm



Male Spike Outlet



Male Luer Slip Outlet



25 mm effective filtration diameter
33 mm housing diameter



Minisart® SRP 25 mm



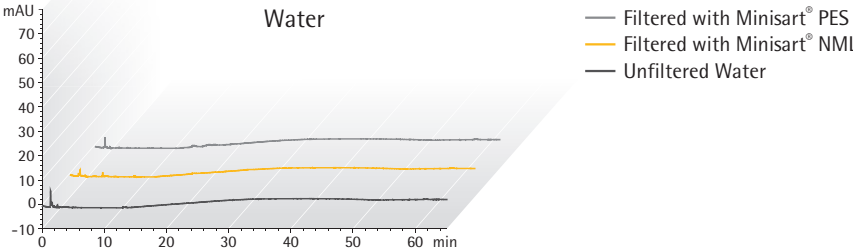
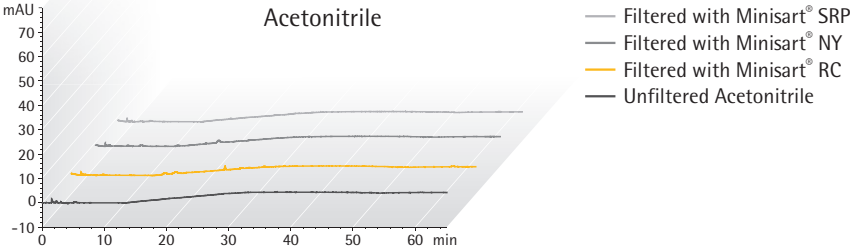
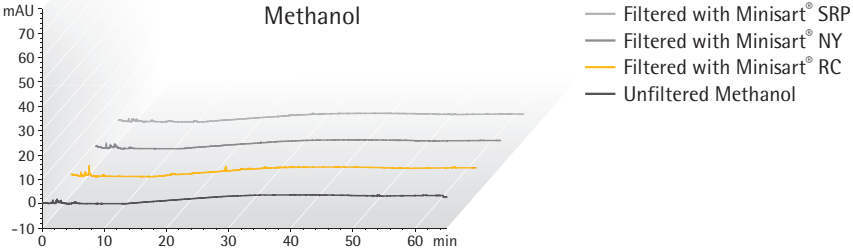
Minisart® NY 25 mm



Minisart® RC 25 mm



Clean Materials for Lowest Background Levels



HPLC Procedure

- Column**
- C18: 250 × 4.6 mm,
 - Flow Rate: 1 mL/min,
 - Wavelength: 220 nm

- HPLC**
- Injection Volume: 20 µl,
 - Analysis Time: 65 min,
 - Temperature: 40°C,
 - Mobile Phases:
 - A) Acetonitrile
 - B) Water, Gradient:
 - Hold 60% A for 10 min,
 - 60% to 95% A in 20 min,
 - 95% to 100% A in 35 min

Sample Preparation Chromatography

Ordering Information

Ø mm | EFD¹⁾ | Membrane | Housing | Pore Size | Connector Outlet | Color | Printing | Sterile* | Qty | Pk | Order No.

Minisart® RC (Regenerated Cellulose)

25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17764-----ACK
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17764-----K
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17764-----S
25 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17764-----Q
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17765-----K
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17765-----S
25 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17765-----Q
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17761-----ACK
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17761-----K
15 mm	RC	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17761-----Q
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17762-----K
15 mm	RC	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17762-----Q
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	50	17821-----K
4 mm	RC	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17821-----Q
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17822-----K
4 mm	RC	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17822-----Q

Minisart® SRP (Hydrophobic PTFE)

25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	S7575-----FXOSK
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17575-----K
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	200	17575-----S
25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17575-----Q
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17576-----K
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	200	17576-----S
25 mm	PTFE	PP	0.2 µm	Hose Barb	White	No	500	1757A-----Q
25 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17576-----Q
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	50	17558-----K
15 mm	PTFE	PP	0.2 µm	Male Spike	White, Printed	No	500	17558-----Q
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17573-----ACK
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	17573-----K
15 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17573-----Q
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	50	17559-----K
15 mm	PTFE	PP	0.45 µm	Male Spike	White, Printed	No	500	17559-----Q
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	17574-----K
15 mm	PTFE	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17574-----Q
4 mm	PTFE	PP	0.2 µm	Male Luer Slip	Blue Tray	No	500	17844-----Q
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	50	17820-----K
4 mm	PTFE	PP	0.45 µm	Male Luer Slip	Yellow Tray	No	500	17820-----Q

Ø mm | EFD¹⁾ Membrane Housing Pore Size Connector Outlet Color | Printing Sterile* Qty | Pk Order No.

Minisart® NY (Nylon) & NY25 Plus (Glass Fiber 0.7 µm²⁾ + Nylon)

25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17845-----ACK
25 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	17845-----Q
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	Yes	50	17846-----ACK
25 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	17846-----Q
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1776B-----K
15 mm	Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	1776B-----Q
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	50	1776C-----K
15 mm	Nylon	PP	0.45 µm	Male Luer Slip	White, Printed	No	500	1776C-----Q
25 mm	GF+Nylon	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1784B-----K
25 mm	GF+Nylon	PP	0.2 µm	Male Luer Slip	White, printed	No	500	1784B-----Q
25 mm	GF+Nylon	PP	0.45 µm	Male Luer Slip	White, printed	No	50	1784C-----K
25 mm	GF+Nylon	PP	0.45 µm	Male Luer Slip	White, printed	No	500	1784C-----Q

Minisart® PES (Polyethersulfone) Aqueous Filtration

15 mm	PES	PP	0.22 µm	Male Luer Slip	White	Yes	50	1776D-----ACK
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Minisart® PES- (Hydrophobic PES) Venting & Gas Filtration, Gamma Stable

25 mm	PES	PP	0.2 µm	Male Luer Slip	White, Printed	No	50	1757H-----K
25 mm	PES	PP	0.2 µm	Male Luer Slip	White, Printed	No	500	1757H-----Q
25 mm	PES	PP	0.2 µm	Hose Barbs ^c	White, Printed	No	50	1757G-----K
25 mm	PES	PP	0.2 µm	Hose Barbs ^c	White, Printed	No	500	1757G-----K*

* Sterile Minisart® are individually packaged. If not stated otherwise, Minisart® have been sterilized by ethylene oxide. Minisart® not presterilized: RC, PTFE and Nylon can be sterilized by autoclaving at 121 °C for 30 min/or by using ethylene oxide (EO).

NML and PES- can be sterilized by ethylene oxide or gamma irradiation. PTFE can be sterilized by ethylene oxide.

^c Hose barbs, inlet and outlet, stepped 4.4 - 6 mm diameter

¹⁾ EFD – Effective Filtration Diameter

²⁾ 0.7 µm = GF particle retention ≠ pore size!

Standard Minisart® Syringe Filters without CE marking are not for medical use.

For technical product specifications please see page 20.



Minisart® NML Standard Syringe Filters

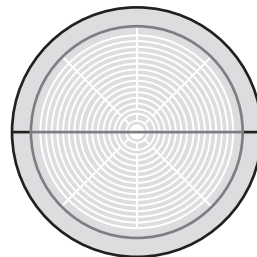
Clarification and Sterilization by Filtration

Filtration is the Optimal Method for Clarification and Sterilization of Liquids and Gases.

Sterilization by filtration is the fastest solution for bacterial cell removal from liquids. Minisart® NML with (surfactant-free) cellulose acetate ((SF)CA) is the best choice for all aqueous solutions with a pH of 4–8. It combines fast flow rates and is available in many different pore sizes also for the removal of larger particles. Minisart® High Flow with polyethersulfone (PES) is optimal for highest flow rates and a pH of 1–13. Due to the asymmetric membrane structure, the PES surface almost behaves like a pre-filter. Both Minisart® types NML and High Flow are available pre-sterilized by ethylene oxide (EO) or gamma irradiation. Hydrophobic PTFE filters like Minisart® SRP are suitable for venting purposes and are additionally available in special formats with activated carbon.

Minisart® Features

- Largest effective filtration area (EFA) of 6.2 cm²
- Low adsorption
- High flow rate
- High total throughput
- Low hold-up volume
- Gamma irradiated or EO sterilized



28 mm effective filtration diameter (for NML and High Flow)
33 mm housing diameter



Minisart® High Flow with PES



0.22 μm



0.45 μm



0.1 μm

Minisart® NML with SFCA



0.2 μm



0.45 μm

Minisart® HY with PTFE



0.2 μm

Minisart® NML with CA



0.65 μm



0.8 μm



1.2 μm



5 μm

Preparation of Aqueous Liquids

Ordering Information

Ø mm | EFD¹⁾ | Membrane | Housing | Pore Size | Connector | Outlet | Color | Printing | Sterile* | Qty | Pk | Order No.

Minisart® High Flow (PES – Polyethersulfone)

28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red	Yes	50	16553-----K
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	Yes	50	16532-----K
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	Yes#	50	16532-----GUK
28 mm	PES	MBS	0.22 µm	Male Luer Lock	Royal Blue	No	500	16532-----Q
28 mm	PES	MBS	0.22 µm	Male Luer Slip	Royal Blue	Yes	50	16541-----K
28 mm	PES	MBS	0.22 µm	Male Luer Slip	Royal Blue	No	500	16541-----Q
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	Yes	50	16537-----K
28 mm	PES	MBS	0.45 µm	Male Luer Lock	Amber	No	500	16537-----Q
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes	50	16533-----K
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	Yes#	50	16533-----GUK
28 mm	PES	MBS	0.45 µm	Male Luer Slip	Amber	No	500	16533-----Q

Minisart® NML ((SF)CA – (Surfactant-free) Cellulose Acetate)

28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	S6534-----FMOSK
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes#	50	S6534-----FMGUK
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	S6534-----FM--Q
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	Yes	50	S7597-----FXOSK
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	No	500	S7597-----FX--Q
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	S6555-----FMOSK
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes#	50	S6555-----FMGUK
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	S6555-----FM--Q
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	Yes	50	S7598-----FXOSK
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	No	500	S7598-----FX--Q
28 mm	CA	MBS	0.65 µm	Male Luer Slip	Pink	Yes	50	16569-----K
28 mm	CA	MBS	0.8 µm	Male Luer Lock	Green	Yes	50	16592-----K
28 mm	CA	MBS	0.8 µm	Male Luer Lock	Green	Yes#	50	16592-----GUK
28 mm	CA	MBS	0.8 µm	Male Luer Lock	Green	No	500	16592-----Q
28 mm	CA	MBS	1.2 µm	Male Luer Lock	Red	Yes	50	17593-----K
28 mm	CA	MBS	1.2 µm	Male Luer Lock	Red	No	500	17593-----Q
28 mm	CA	MBS	5 µm	Male Luer Lock	Brown	Yes	50	S7594-----FMOSK
28 mm	CA	MBS	5 µm	Male Luer Lock	Brown	No	500	17594-----Q

Ø mm | EFD¹⁾ Membrane Housing Pore Size Connector Outlet Color | Printing Sterile* Qty | Pk Order No.

Minisart® NML Plus (Glass Fiber 0.7 µm²⁾ + ((SF)CA)

28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	17823-----K
28 mm	GF+SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	17823-----Q
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	17829-----K
28 mm	GF+SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	17829-----Q
28 mm	GF+CA	MBS	1.2 µm	Male Luer Lock	Red	No	500	17825-----Q
28 mm	GF	MBS	0.7 µm ²⁾	Male Luer Lock	White	No	50	17824-----K
28 mm	GF	MBS	0.7 µm ²⁾	Male Luer Lock	White	No	500	17824-----Q

Minisart® HY (Hydrophobic PTFE), for Venting and Gas Filtration

26 mm	PTFE	MBS	1 µm	Male Luer Lock	Clear	No	500	1659A-----HYQ
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	Yes	50	S6596-----FMOSK
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	No	500	S6596-----FM--Q

Minisart® High Flow (PES – Polyethersulfone) Aqueous Filtration and Mycoplasma Removal

28 mm	PES	MBS	0.1 µm	Male Luer Lock	Dark Red	Yes	50	16553-----K
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Minisart® Air (Hydrophobic PTFE) Venting

15 mm	PTFE	MBS	0.2 µm	Male Luer Slip	Yellow	No	500	1751A-----Q
15 mm	PTFE	MBS	0.2 µm	Male Luer Slip + Needle	Yellow	Yes#	50	16596-----HNK

Minisart® Acticosart with Dome Reservoir + Hydrophobic PTFE Venting & Ultracleaning of Gases

26 mm	active carbon	MBS	0.45 µm	Male Luer Slip	Blue	No	500	17840-----Q
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* Sterilized Minisart® are individually packaged. If not stated otherwise, Minisart® are sterilized by ethylene oxide.

#-Mark indicates sterilization by gamma irradiation.

Minisart® not presterilized: High Flow, NML, NML Plus and HY can be sterilized by ethylene oxide;

High Flow, NML and NML Plus can also be sterilized by gamma irradiation.

¹⁾ EFD – Effective Filtration Diameter

²⁾ 0.7 µm = GF particle retention ≠ pore size!

Standard Minisart® Syringe Filters without CE marking are not for medical use.

For technical product specifications please see page 22.



CE-Minisart[®] Syringe Filters For Medical Use – Sterile Filtration & Venting

CE-Minisart[®] NML and Ophthalsart with (surfactant-free) cellulose acetate ((SF)CA), and CE-Minisart[®] HY and SRP with hydrophobic PTFE are frequently used for sterile filtration and/or clarification of aqueous and oily liquids and other medical applications. CE-Minisart[®] NML with a 5 µm cellulose acetate (CA) membrane removes particulates or coagulates offering high total throughput under sterile conditions. Hydrophobic PTFE filters are suitable for venting purposes.



Minisart[®] Features

- Low adsorption
- Biocompatible acc. to ISO 10993-1
- Gamma irradiated or EO sterilized



0.2 μm



0.45 μm



5 μm



0.2 μm

CE-Minisart® Syringe Filters for medical use

Ordering Information

Ø mm | EFD¹⁾ | Membrane | Housing | Pore Size | Connector Outlet | Color | Printing | Sterile^a | Qty | Pk | Order No.

Minisart® NML ((SF)CA – (Surfactant-free) Cellulose Acetate) Aqueous Filtration

28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes	50	16534-----K*
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	Yes#	50	16534-----GUK*
28 mm	SFCA	MBS	0.2 µm	Male Luer Lock	Blue	No	500	16534-----Q*
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	Yes	50	17597-----K*
28 mm	SFCA	MBS	0.2 µm	Male Luer Slip	Blue	No	500	17597-----Q*
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes	50	16555-----K*
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	Yes#	50	16555-----GUK*
28 mm	SFCA	MBS	0.45 µm	Male Luer Lock	Yellow	No	500	16555-----Q*
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	Yes	50	17598-----K*
28 mm	SFCA	MBS	0.45 µm	Male Luer Slip	Yellow	No	500	17598-----Q*
28 mm	CA	MBS	5 µm	Male Luer Lock	Brown	Yes	50	17594-----K*

Minisart® Ophthalmart (SFCA – Surfactant-free Cellulose Acetate) Aqueous Filtration

28 mm	Ophthalmart	MBS	0.2 µm	Male Luer Slip	Pink	Yes	50	17528-----K*
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Minisart® HY (Hydrophobic PTFE) CE-marked Venting & Gas Filtration

26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	Yes	50	16596-----HYK*
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock	Clear	No	500	16596-----HYQ*
26 mm	PTFE	MBS	0.2 µm	Male Luer Lock ^b	Clear	No	500	16599-----HYQ*

Minisart® SRP (Hydrophobic PTFE) CE-marked Venting & Gas Filtration

25 mm	PTFE	PP	0.2 µm	Male Luer Slip	White, Printed	Yes	50	17575-----ACK*
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* Article numbers are only available in: EU/EEA and in registered countries.

^a Sterilized Minisart® are individually packaged. If not stated otherwise, Minisart® are sterilized by ethylene oxide.

#-mark indicates sterilization by gamma irradiation

Minisart® NOT presterilized: NML can be sterilized by ethylene oxide or gamma irradiation. PTFE can be sterilized by ethylene oxide.

^b Connector inlet: Male Luer slip (all other Minisart® have female luer lock inlets)

¹ EFD – Effective Filtration Diameter

For technical product specifications please see pages 20 and 22.



Chemical Compatibility

Filter Membrane	Material								Minisart® Types											
	PES membrane (SF)CA membrane	PTFE membrane	RC membrane	Nylon membrane	GF depth filter	Housing MBS	Housing PP		Minisart® HighFlow	Minisart® NML Ophthalsart	Minisart® NML Plus	Minisart® NML GF	Minisart® HY	Minisart® Air	Minisart® RC	Minisart® NY	Minisart® NY Plus	Minisart® SRP	Minisart® PES	
	PES (SF) CA	PTFE	RC	PA					PES	(SF) CA	(SF) CA		PTFE	RC	PA	PA	PA	PTFE	PES	
Pre-Filter					GF				-	-	GF	GF	-	-	-	GF	-	-		
Housing Material						MBS	PP		MBS	MBS	MBS	MBS	MBS	PP	PP	PP	PP	PP	PP	
Sterilization																				
Ethylene oxide	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++
Gamma irradiation	++	++	- ¹	++	-	++	++	-	++	++	++	++	- ¹	-	-	-	-	-	-	
Autoclaving 121 °C, 30 min	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	++	
Solvents																				
Acetone	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Acetonitrile	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Benzene	+	+	-	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-	+	
Benzyl alcohol	+	+	++	++	++	++	-	+	-	-	-	-	-	++	++	++	++	++	+	
n-Butyl acetate	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
n-Butanol	++	++	++	++	++	++	+	++	+	+	+	+	+	++	++	++	++	++	++	
Cellosolve	+	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	+	
Chloroform	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Cyclohexane	-	-	++	++	++	++	+	+	-	-	-	-	+	+	+	+	+	+	-	
Cyclohexanone	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
Diethylacetamide	-	-	-	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-	-	
Diethyl ether	-	+	-	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-	-	
Dimethyl formamide	-	-	++	+	+	++	-	++	-	-	-	-	-	+	+	+	+	++	-	
Dimethylsulfoxide	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Dioxane	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Ethanol, 98%	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	++	
Ethyl acetate	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
Ethylene glycol	++	+	++	++	++	++	+	++	+	+	+	+	+	++	++	++	++	++	++	
Formamide	++	-	+	+	++	++	++	++	++	-	-	-	+	+	++	++	++	++	++	
Glycerin	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	++	
Isobutanol	++	+	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	++	
Isopropanol	++	++	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	++	
Isopropyl acetate	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	-	
Methanol, 98%	+	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	++	+	
Methyl acetate	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
Methylene chloride	-	-	-	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-	-	
Methyl ethyl ketone	-	+	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
Methyl isobutyl ketone	-	-	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
Monochlorobenzene	+	+	-	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-	+	
Nitrobenzene	-	-	++	++	+	++	-	+	-	-	-	-	-	+	+	+	+	+	-	
n-Heptane	+	+	+	++	++	++	++	+	+	+	+	+	+	+	+	+	+	+	+	
n-Hexane	+	+	+	++	++	++	++	+	+	+	+	+	+	+	+	+	+	-	+	
n-Pentane	++	++	-	++	++	++	+	+	+	+	+	+	+	+	+	+	+	-	+	
Perchloroethylene	-	-	-	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-	-	
Petroleum ether	+	++	-	++	++	++	+	++	+	+	+	+	-	++	++	++	++	-	+	

	Material								Minisart® Types									
	PES membrane	(SF)CA membrane	PTFE membrane	RC membrane	Nylon membrane	GF depth filter	Housing MBS	Housing PP	Minisart® HighFlow	Minisart® NML Ophthalsart	Minisart® NML Plus	Minisart® NML GF	Minisart® HY	Minisart® Air	Minisart® RC	Minisart® NY	Minisart® NY Plus	Minisart® SRP
Filter Membrane	PES	(SF)CA	PTFE	RC	PA				PES	(SF)CA	(SF)CA		PTFE	RC	PA	PA	PTFE	PES
Pre-Filter						GF			-	-	GF	GF	-	-	-	GF	-	-
Housing Material							MBS	PP	MBS	MBS	MBS	MBS	MBS	PP	PP	PP	PP	PP
Solvents (continued)																		
Pyridine	-	-	++	++	++	++	-	++	-	-	-	-	-	++	++	++	++	-
Tetrahydrofuran	-	-	-	++	++	++	-	++	-	-	-	-	-	++	++	++	-	-
Toluene	-	+	-	++	++	++	-	+	-	-	-	-	-	+	+	+	-	-
Trichloroethylene	-	+	++	++	++	++	-	+	-	-	-	-	-	+	+	+	+	-
Xylene	-	+	-	++	++	++	-	+	-	-	-	-	-	+	+	+	-	-
Acids																		
Acetic acid, 25%	+	+	++	++	-	++	+	++	+	+	+	+	+	++	-	-	++	+
Acetic acid, 80%	-	-	++	+	-	++	-	+	-	-	-	-	-	+	-	-	+	-
Hydrochloric acid, 20%	++	-	++	-	-	++	+	+	+	-	-	-	+	-	-	-	+	+
Hydrofluoric acid, 50%	+	-	++	+	-	++	-	+	-	-	-	-	-	+	-	-	+	+
Perchloric acid, 25%	-	-	++	-	-	++	-	+	-	-	-	-	-	-	-	-	+	-
Phosphoric acid, up to 10%	+	+	++	-	-	++	+	+	+	+	+	+	+	-	-	-	+	+
Phosphoric acid, 86%	+	+	++	-	-	++	-	+	-	-	-	-	-	-	-	-	+	+
Nitric acid, 30%	+	-	++	-	-	++	+	+	+	-	-	-	+	-	-	-	+	+
Nitric acid, conc.	-	-	++	-	-	++	-	-	-	-	-	-	-	-	-	-	-	-
Sulfuric acid, 25%	+	-	++	+	-	++	++	++	+	-	-	-	++	+	-	-	++	+
Sulfuric acid, 98%	-	-	++	-	-	++	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroacetic acid, 25%	-	-	++	++	-	++	-	+	-	-	-	-	-	+	-	-	+	-
Bases																		
Ammonia, 1N	++	+	++	+	++	++	+	++	+	+	+	+	+	+	++	++	++	++
Ammonium hydroxide, 25%	+	+	++	+	++	+	-	+	-	-	-	-	-	+	+	+	+	+
Potassium hydroxide, 32%	++	-	++	-	+	+	-	++	-	-	-	-	-	-	+	+	++	++
Sodium hydroxide, 1N	++	-	-	+	++	+	-	++	-	-	-	-	-	+	++	+	-	++
Sodium hydroxide, 32%	++	-	-	-	+	-	-	+	-	-	-	-	-	+	-	-	-	+
Aqueous solutions																		
Formaldehyde, 30%	+	++	++	+	++	++	+	+	+	+	+	+	+	+	+	+	+	+
Sodium hypochlorite, 5%	++	-	++	-	-	++	+	+	+	-	-	-	+	-	-	-	+	+
Hydrogen peroxide, 35%	++	-	++	-	-	++	+	++	+	-	-	+	+	-	-	-	++	++
pH range																		
pH 1-14	-	-	++	-	-	++	-	++										
pH 1-13	++	-	++	-	-	++	-	++										
pH 3-14	+	-	++	+	++	++	-	++										
pH 3-12	++	-	++	++	++	++	+	++										
pH 4-8	++	++	++	++	++	++	++	++										

Legend

High Resistance	++
Limited Resistance	+
Not Resistant	-

¹ gamma irradiation feasible for Minisart® Air

The chemical compatibility guide was established either by a literature review or by laboratory tests. Please consider that compatibilities can be influenced by various factors. Therefore, we recommend that you confirm compatibility with the liquid you want to filter by performing a trial filtration run before you start your actual filtration.

Minisart® Standard Syringe Filters with PP Housing

Technical Specifications

Specifications for

Minisart® RC | SRP | NY | PES with 4 | 15 | 25 mm membrane filtration diameter

Housing material	Polypropylene (PP)
Membranes	RC = Regenerated Cellulose NY = Polyamide SRP = Hydrophobic PTFE = Polytetrafluoroethylene PES = Polyethersulfone PES- = Hydrophobic PES
Glass fiber pre-filter	NY Plus: Ultrapure quartz, 0.7 µm particle retention
Application limits	Max. recommended operating pressure 4.5 bar 65 psi
Housing burst pressure	≥ 7 bar 102 psi
Max. temperature	60°C
Sterilization	Non-sterile Minisart® can be autoclaved or sterilized by ethylene oxide sterilization (EO)

Minisart® type with regards to membrane	RC 0.2 µm	RC 0.2 µm	RC 0.45 µm	SRP 0.2 µm	SRP 0.45 µm
Non-sterile packs: 50 (K), 200 (S), 500 (Q), 1000 (R) sterile packs: individual packaged, 50 (ACK)	K S Q R	ACK	K S Q R	K S Q ACK	K S Q
Bubble point (≥)	with water 3.0 bar 44 psi	with water 4.6 bar 67 psi	with water 2.0 bar 29 psi	with ethanol 1.1 bar 16 psi	with ethanol 0.9 bar 13 psi
Flow rate (≥ mL/min), 4 mm Ø = 0.07 cm² filter area Hold-up volume¹: ≤ 10 µl					
with water at 1 bar	0.5	–	1.5	– ³	– ³
with methanol at 1 bar	1.5	–	3.0	2.0	4.5
with air at 0.1 bar	– ²	–	– ²	30	60
Flow rate (≥ mL/min), 15 mm Ø = 1.7 cm² filter area Hold-up volume¹: ≤ 100 µl					
with water at 1 bar	20	10	40	– ³	– ³
with methanol at 1 bar	55	25	105	55	150
with air at 0.1 bar	– ²	– ²	– ²	800	1600
Flow rate (≥ mL/min), 25 mm Ø = 4.8 cm² filter area Hold-up volume¹: ≤ 200 µl					
with water at 1 bar	80	50	160	– ³	– ³
with methanol at 1 bar	160	90	325	160	260
with air at 0.1 bar	– ²	– ²	– ²	1800	3000
Water penetration point (≥)	–	–	–	4.0 bar 58 psi ³	3.0 bar 44 psi ³
Sterile filtration capability acc. to BCT	no ⁵	yes	no	yes	no
Non-pyrogenic according to USP		yes ⁶		yes ⁶	
Cytotoxicity (17575-ACK)	No inhibition with MRC-5 (human lung cells) and L929				

¹ Hold-up volume after air purge.

² Hydrophilic membranes can filter dry air or gas but become impermeable to air or gas when wetted!

³ Hydrophobic membranes cannot be wetted with aqueous solutions unless you overcome their water penetration point or pre-wet them using an organic solvent (e.g. ethanol)

⁴ PES is suitable for solutions only containing up to 30% MeOH



NY 0.2 µm	NY 0.45 µm	NY Plus 0.2 µm	NY Plus 0.45 µm	PES 0.2 µm	PES- 0.2 µm
K Q R ACK	K Q R ACK	K Q	K Q	K Q ACK	K Q
with water 3.0 bar 44 psi	with water 2.0 bar 29 psi	with water 3.0 bar 44 psi	with water 2.0 bar 29 psi	with water 3.2 bar 46 psi	with ethanol 0.95 bar 13.8 psi
-	-	-	-	1.5	-
-	-	-	-	- ⁴	-
-	-	-	-	- ²	-
20	40	-	-	40	-
40	110	-	-	- ⁴	-
- ²	- ²	-	-	- ²	-
50	100	50	100	100	- ³
70	200	70	200	- ⁴	- not determined
- ²	- ²	- ²	- ²	- ²	1200
-	-	-	-	-	2.0 bar 44 psi
yes	no	yes	no	yes	yes
yes ⁶				yes ⁶	

⁵ According to bacterial challenge test (BCT) with $\geq 1 \times 10^7$ cfu/cm² *Brevundimonas diminuta*. Non-sterile RC Minisart® types are optimized for sample preparation and are not suitable for sterile filtration according to the BCT. All other non-sterile Minisart® types with 0.2 mm pore size can be sterilized by autoclaving or EO before use for sterile filtration.

⁶ For sterile packs ACK

⁷ Standard Minisart® Syringe Filters without CE marking are not for medical use

Minisart® Standard Syringe Filters with MBS Housing

Technical Specifications

Specifications for

Minisart® High Flow | NML | NML Plus with 28 mm accessible membrane filtration diameter, ≤ 150 µl hold-up volume¹

Minisart® HY | Acticosart with 26 mm accessible membrane filtration diameter, ≤ 150 µl hold-up volume¹

Minisart® Air with 15 mm accessible membrane filtration diameter, ≤ 100 µl hold-up volume¹

Housing material	Methacrylate butadiene styrene (MBS)
Membranes	High Flow: PES = Polyethersulfone, NML: (SF)CA = (Surfactant-free) Cellulose Acetate, NML Plus: (SF)CA = (Surfactant-free) Cellulose Acetate, HY Acticosart Air: Hydrophobic PTFE = Polytetrafluoroethylene
Glass fiber pre-filter	NML Plus: Binder-free GF, 0.7 µm particle retention
Application limits	High Flow: Max. recommended operating pressure 6.0 bar 87 psi NML, NML Plus, HY, Air: Max. recommended operating pressure 4.5 bar 65 psi Acticosart: Max. recommended operating pressure 1 bar 14.5 psi
Housing burst pressure	≥ 7 bar 102 psi (not determined for Acticosart)
Max. temperature	60°C
Sterilization	Non-sterile Minisart® High Flow, NML, NML Plus can be sterilized by ethylene oxide (EO) or gamma sterilization Non-sterile Minisart® HY, Acticosart, Air* can be sterilized by ethylene oxide (EO)

Minisart® type with regards to membrane	PES 0.1 µm	PES 0.2 µm	PES 0.45 µm	SFCA 0.2 µm	SFCA 0.45 µm	CA 0.65 µm	CA 0.8 µm
Non-sterile packs: 500 (Q, HYQ), 1000 (R), sterile packs: individual packaged: 50 (K, GUK, HYK, HNK)	K	K GUK Q	K GUK Q	K GUK Q	K GUK Q	K	K GUK Q
Bubble point (≥)	with water 5.0 bar 73 psi	with water 3.2 bar 46 psi	with water 2.0 bar 29 psi	with water 3.2 bar 46 psi	with water 2.0 bar 29 psi	with water 1.3 bar 19 psi	with water 0.8 bar 12 psi
Flow rate² (≥) mL/min							
28 mm Ø with water at 1 bar	40	140	220	60	160	250	400
15 mm Ø with air at 0.1 bar	-	-	-	-	-	-	-
26 mm Ø with air at 0.1 bar	-	-	-	-	-	-	-
Water penetration point (≥)	-	-	-	-	-	-	-
Sterile filtration capability³ acc. to BCT	yes	yes	no	yes	no	no	no
Non-pyrogenic according to USP	yes ⁴	yes ⁴	yes ⁴	yes ⁴	yes ⁴	yes ⁴	yes ⁴
Cytotoxicity	No inhibition with MRC-5 (human lung cells) and L929						

¹ Hold-up volume after air purge.

² Hydrophobic membranes cannot be wetted with aqueous solutions unless you overcome their water penetration point.

³ According to bacterial challenge test (BCT) with $\geq 1 \times 10^7$ cfu/cm² *Brevundimonas diminuta*. All non-sterile Minisart® types listed above can be sterilized according to the sterilization recommendation in this table. Not autoclavable.

⁴ For sterile packs K | GUK

⁵ Standard Minisart® Syringe Filters without CE marking are not for medical use.



CA 1.2 µm	CA 5.0 µm	GF+SF CA 0.2 µm	GF+SF CA 0.45 µm	GF+CA 1.2 µm	GF 0.7 µm	PTFE 0.2 µm	PTFE 1.0 µm	Actico- sart	PTFE (Air) 0.2 µm
K Q	K Q	K Q	K Q	Q	K Q	HYK HYQ	HYQ	Q	Q HNK
with water 0.7 bar 10 psi	with water 0.4 bar 6 psi	with water 3.2 bar 46 psi	with water 2.0 bar 29 psi	with water 0.7 bar 10 psi	with water 0.5 bar 7 psi	with ethanol 1.4 bar 20 psi	with ethanol 0.5 bar 7 psi	with ethanol 0.9 bar 13 psi	with ethanol 1.0 bar 14.1 psi
500	600	60	160	350	450	-	-	-	-
-	-	-	-	-	-	-	-	-	800
-	-	-	-	-	-	2000	4000	2300	-
-	-	-	-	-	-	4.0 bar 58 psi ²	1.5 bar 22 psi ²	n.a.	3.2 bar 46 psi ²
no	no	yes	no	no	no	yes	no	n.a.	yes
yes ⁴	yes ⁴					yes ⁴			

CE-Minisart® Syringe Filters

Technical Specifications



Specifications for

CE-Minisart® NML with 28 mm accessible membrane filtration diameter, ≤ 150 µl hold-up volume¹

CE-Minisart® HY with 26 mm accessible membrane filtration diameter, ≤ 150 µl hold-up volume¹

Housing material	Methacrylate butadiene styrene (MBS)
Membranes	NML: (SF)CA = (Surfactant-free) Cellulose Acetate, NML (5 µm): CA = Cellulose Acetate HY: Hydrophobic PTFE = Polytetrafluoroethylene SRP: Hydrophobic PTFE = Polytetrafluoroethylene
Application limits	Max. recommended operating pressure 4.5 bar 65 psi
Housing burst pressure	≥ 7 bar 102 psi
Max. temperature	60°C
Sterilization	Non-sterile Minisart® NML can be sterilized by ethylene oxide (EO) or gamma sterilization Non-sterile Minisart® HY and Minisart® SRP* can be sterilized by ethylene oxide (EO)

Minisart® type with regards to membrane	SFCA 0.2 µm	SFCA 0.45 µm	CA 5.0 µm	PTFE 0.2 µm	SRP 0.2 µm
Non-sterile packs: 500 (Q, HYQ), sterile packs: individual packaged: 50 (K, GUK, HYK, HNK)	K GUK Q	K GUK Q	K	HYK HYQ	ACK
Bubble point (≥)	with water 3.2 bar 46 psi	with water 2.0 bar 29 psi	with water 0.4 bar 6 psi	with ethanol 1.4 bar 20 psi	with ethanol 1.1 bar 13 psi
Flow rate² (≥) mL/min)					
28 mm Ø with water at 1 bar	60	160	600	–	–
25 mm Ø with ethanol at 1 bar	–	–	–	–	60
25 mm Ø with air at 0.1 bar	–	–	–	–	–
26 mm Ø with air at 0.1 bar	–	–	–	2000	1800
Water penetration point (≥)	–	–	–	4.0 bar 58 psi ²	4.0 bar 58 psi ²
Sterile filtration capability³ acc. to BCT	yes	no	no	yes	yes
Non-pyrogenic according to USP	yes ⁴	yes ⁴	yes ⁴	yes ⁴	yes ⁴
Biocompatible	acc. to ISO 10993-1				

¹ Hold-up volume after air purge.

² Hydrophobic membranes cannot be wetted with aqueous solutions unless you overcome their water penetration point.

³ According to bacterial challenge test (BCT) with $\geq 1 \times 10^7$ cfu/cm² *Brevundimonas diminuta*. All non-sterile Minisart® types listed above can be sterilized according to the sterilization recommendation in this table.

⁴ For sterile packs K | GUK



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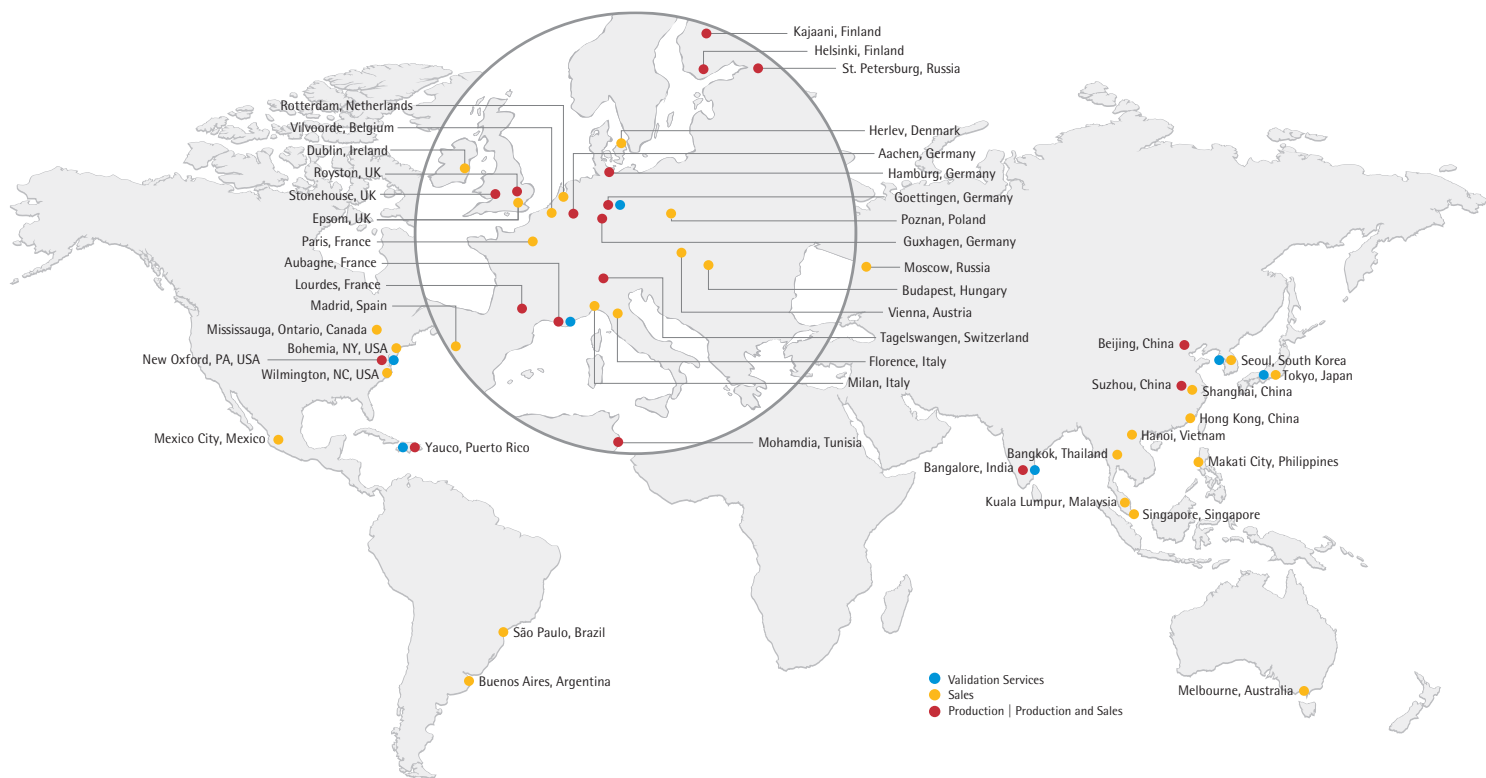
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