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Filtration



Minisart High Flow Rate Filters

Disposable **Minisart** Syringe Filters for particle removal, ultracleaning and prefiltration. Ready-to-use units with 0.45 μ m, 0.8 μ m, 1.2 μ m or 5 μ m pore size membrane filters. They allow rapid clarification or ultracleaning of up to 100 ml liquid volumes or can be mounted directly in front of an 0.2 μ m Minisart to act as prefilter and increase the total filterable volume. The high flow rates of these units result from the large filter area and the very low flow resistance of the filter support, which is demonstrated by the relative constant increase in the flow rate with increasing pore size. These flow rates contribute to user comfort by lowering the pressure required for filtration. **Minisart-GF** contains a glass fibre filter with a retention efficiency of 98% for 0.7 μ m spherical particles. It is very useful when relatively dirty solutions are to be clarified, or as a prefilter on an 0.2 μ m or 0.45 μ m Minisart-plus units also contain this glass fibre filter, but as prefilter on an 0.45 μ m or 1.2 μ m membrane, for higher total throughputs.

Specifications for Minisarts, Minisart-plus and Minisart-GF

Bubble points Min. values, water wetted, 1.6 bar (0.45 µm), 0.8 bar (0.8 µm),

0.7 bar (1.2 µm), 0.4 bar (5 µm), 0.5 bar (Minisart-GF)

Colour coding Yellow (0.45 μm), green (0.8 μm), red (1.2μm), brown (5 μm),

opaque (Minisart-GF)

Connectors Female Luer lock inlet, male Luer lock outlet (the 0.45 µm unit is

also available with a male Luer outlet)

Cytotoxicity No inhibition with MRC-5 human lung cells

Filter diameter 26 mm Filtration area 5.3 cm²

Flow rate Typical values for water at $\Delta p = 1$ bar (100 kPa),180 ml/min

(0.45 $\mu m),\,350$ ml/min (0.8 $\mu m),\,400$ ml/min $\,$ (1.2 $\mu m),\,500$ ml/

min (5 µm), 600 ml/min (Minisart-GF)

Hold-up volume 0.1 ml

Limits for use Max. recommended operating pressure, 4.5 bar

(450 kPa).

Housing resists bursting up to at least 6 bar (600 kPa).

Max. temperature 50°C

Materials Cellulose acetate membrane (except Minisart-GF).

Glass fibre filter (Minisart-GF and Minisart-plus). Cyrolite (CY/RO

Industries trademarked MBS-copolymer) housing

Order Numbers for Standard 0.45µm to 5µm Minisarts

a) Sterile, individually packed (packs of 50):

F103/ML0.45 μm, with male Luer outletF103/L0.45 μm, with Luer lock outletF1050.8 μm, with Luer lock outletF1091.2 μm, with Luer lock outletF1115 μm, with Luer lock outletb) Non sterile, bulk packed, (packs of 500)

F104/ML

F104/L

F106

F110

Construction of the particular parti

Minisart-plus units

a) **Sterile**, individually packed (packs of 50)

F103/L/PLUS 0.45 µm, with Luer lock outlet

b) Non sterile, bulk packed, (packs of 500)

F104/L/PLUS 0.45 μm, with Luer lock outlet 1.2 μm, with Luer lock outlet

Minisart-GF units

a) Non sterile, bulk packed

F288 Luer lock outlet (pack of 50)
F289 Luer lock outlet (pack of 500)

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