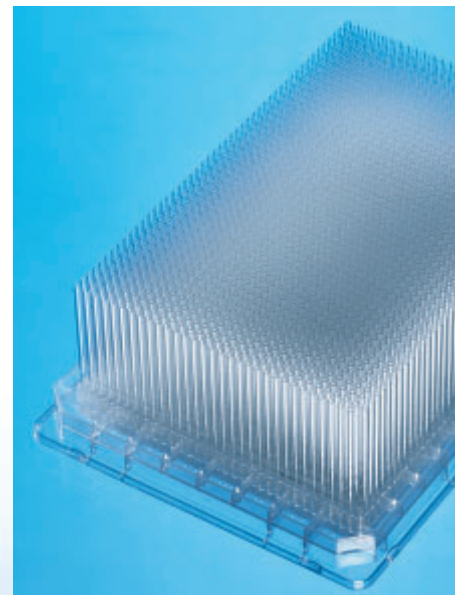
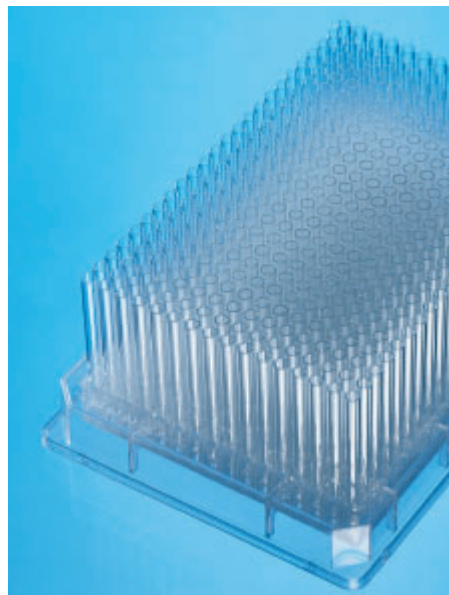


Hirschmann-plates

HiClass in High Throughput Screening.



highly pure,
chemically
inert



Highly pure and chemically inert. Hirschmann-plates, the micro plates for HTS in automated handling systems.

With our knowledge in manufacturing precise glass capillaries (tolerances in the range of a few μm) and an innovative and specialized manufacturing process, Hirschmann Laborgeräte offers a world-wide unique solution for High Throughput Screening: chemically inert and highly pure micro plates with fixed or loose, removable glass inserts.

High Throughput Screening (HTS) – this implies several thousands of samples a day. In addition we offer the most economical solution for micro plates that are resistant against organic solvents. The requirements for this resistance are extremely high in combinatoric chemistry and high speed chromatography. Too high for solutions available up to now.

Micro plates made of PS are not suitable for this specific use and even those plates made of PP are causing problems, since anti-static agents or other additives may be dissolved. The available glass blocks are too heavy for some robots, too expensive for disposable use and cleaning a micro plate with more than 96 wells is extremely difficult or even impossible with the "coarse" surface of the drilled holes.

Unique
disposable plastic
micro plates with
glass inserts

Safe
highly pure and
chemically inert

Economical
using the plate
with more
wells cuts the
costs in half

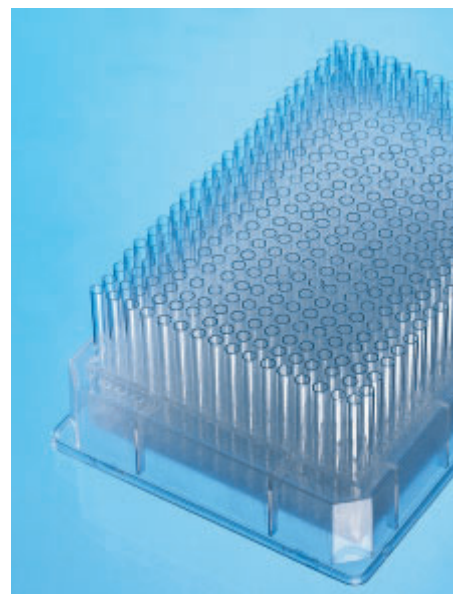
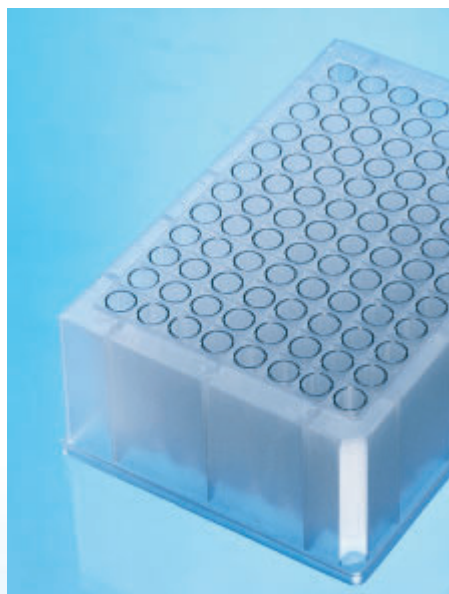
Complete
range with 96,
384 and 1536 wells,
fixed or loose



96, 384 and
1536 well plates
with fixed glass
inserts



96 and 384
well plates with
lose glass inserts



Hirschmann-plates however are the ideal solution for specific requirements. Designed as a disposable plastic micro plate with glass inserts, they combine the

advantages of the plastic plates – standard size and low weight – with those of glass – absolute chemical inertness and high purity. Moreover the Hirschmann-plates are heated up or cooled down easily, since the inserts' walls are almost completely washed around in a water bath. That is all available at a good price.

The Hirschmann-plates are available in fixed versions (96 – 384 – 1536) or lose (96 – 384). There are lids (made of silicone, PP or Teflon) for the 96 well plates. Adhesive foils are used to cover the 384 and the 1536 well plates.

Hirschmann-plates. High throughput and low cost.

Easy

The weight is just a fraction of a glass plate

Suitable

Standardized size of the plates 124 x 81 mm

Tested

Hirschmann Laborgeräte is certified in accord with ISO 9001

Hirschmann-plates are covered with lids or adhesive foils



Hirschmann-plates. HiClass in High Throughput Screening.

Technical data

Plate dimensions	Standardized size 124 x 81 mm. Deep well plates with 40–45 mm height are resulting of the different glass inserts.
Precision	The fixed glass inserts are exactly arranged to match with the most common patterns of pipetting robots.
Covers	Lids made of silicone, PP or Teflon are available for the 96 well plates. If required, 384 and 1536 well plates are closed with an aluminum-covered adhesive foil.
Solvent	The glass inserts are closed at their bottom and are therefore chemically inert. This is most important for the use with organic solvents.

Physical properties / chemical composition

	Physical properties	Chemical composition
96 well	Coefficient of expansion $\alpha 9,2 \cdot 10^{-3} \cdot K^{-1}$ Density $\rho 2,48 g \cdot cm^{-3}$	SiO ₂ 69,0% / Na ₂ O 16,0% / Al ₂ O ₃ 7,0% / CaO 3,0% / B ₂ O ₃ 2,0% / MgO 1,0% / ZnO 1,0%
384 well	Coefficient of expansion $\alpha 8,7 \cdot 10^{-6} \cdot K^{-1}$ Density $\rho (20^{\circ}C) 2,48 g \cdot cm^{-3}$	SiO ₂ 69,0% / Na ₂ O 16,0% / Al ₂ O ₃ 7,0% / CaO 3,0% / B ₂ O ₃ 2,0% / MgO 1,0% / ZnO 1,0%
1536 well	Coefficient of expansion $\alpha 3,3 \cdot 10^{-6} \cdot K^{-1}$ Density $\rho (20^{\circ}C) 2,23 g \cdot cm^{-3}$	SiO ₂ 81,0% / B ₂ O ₃ 13,0% / Na ₂ O+K ₂ O 4,0% / Al ₂ O ₃ 2,0%

Order data

Description	Glass inserts/volume	Total weight	Code no.
Hirschmann-plates (96er-deepwell)	fixed/1200 μ l	289 g	924 01 96
Hirschmann-plates (384er- deepwell)	fixed/ 250 μ l	223 g	924 01 84
Hirschmann-plates (1536er- deepwell)	fixed/ 50 μ l	168 g	924 01 36
Hirschmann-plates (96er- deepwell)	lose/1200 μ l	289 g	924 11 96
Hirschmann-plates (384er- deepwell)	lose/ 250 μ l	233 g	924 11 84

For more information on solutions for pipetting, dispensing, titration, volumetric measurement and special precise glass capillaries, visit our website www.hirschman-laborgeraete.de.

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For ordering and further details, please consult your supplier