



MARIENFELD

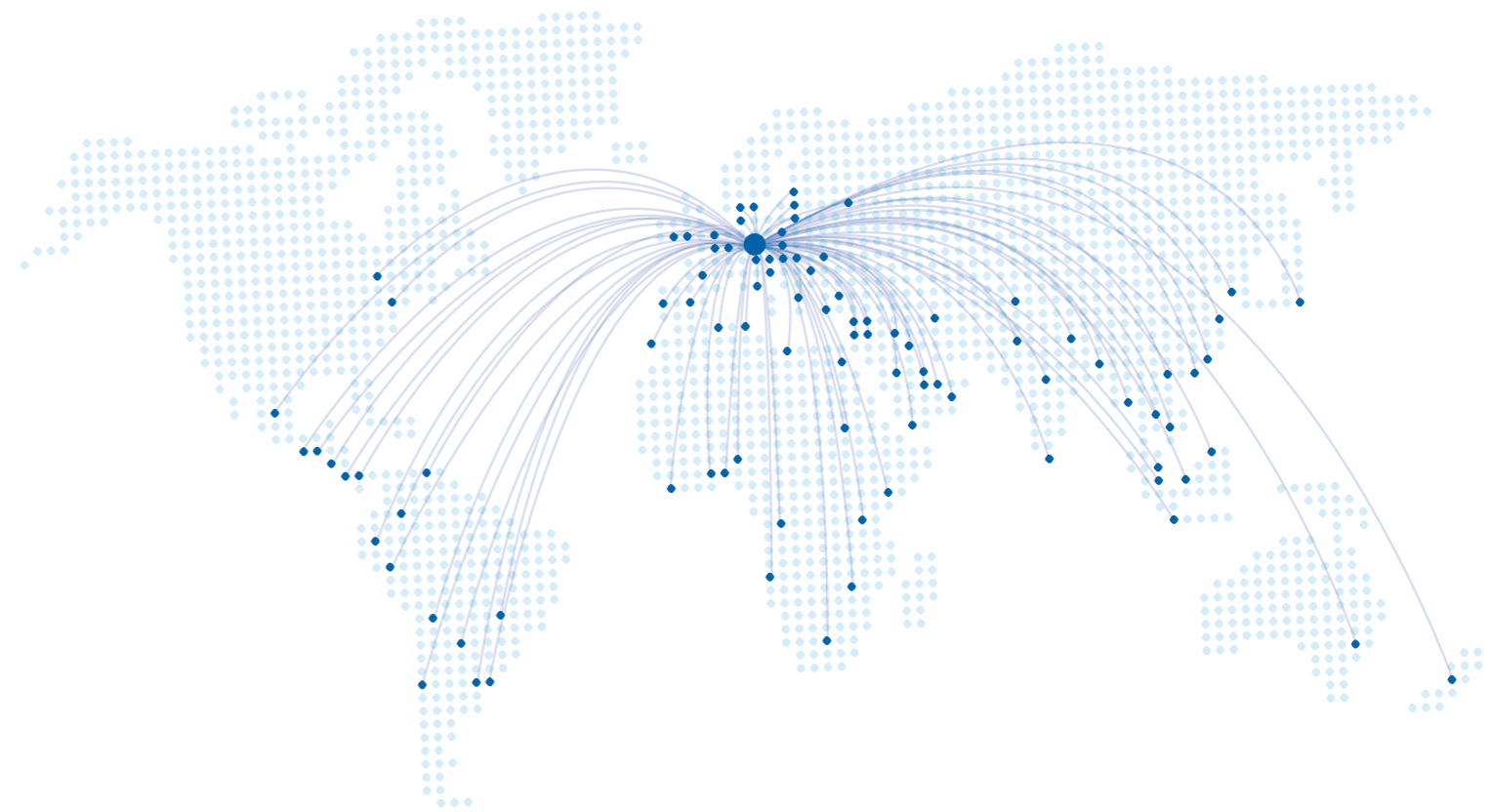
18

Since 1922: Our experience is your success

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Paul Marienfeld GmbH & Co. KG

Our company was founded in 1922 by Paul Marienfeld and since that date the company is owned by the Marienfeld family. Today we supply our products from Germany to more than 100 countries worldwide.

Since 1922: Our experience is your success

Our comprehensive range of quality laboratory glassware like microscope slides, cover glass, counting chambers, capillary tubes, laboratory containers and volumetric glassware has made our name and our brand renowned internationally. Many products made of plastic and porcelain as well as some small devices for the general laboratory work complete our delivery programme.

The brand Marienfeld Superior has become a synonym for quality and reliability.

Our main focus is on fulfilling customer's needs and has been so for over 95 years – something we are proud of.



Partners for life



Your advantages

Quality

Modern production technologies are combined with the knowledge and expertise of more than 95 years of experience. The results are high quality products.

Our quality management is certified by DEKRA Certification Services acc. to DIN EN ISO 9001:2015. A quality control which accompanies the entire production process and stringent final checks ensure that our customers only receive products of high quality.

Short delivery times

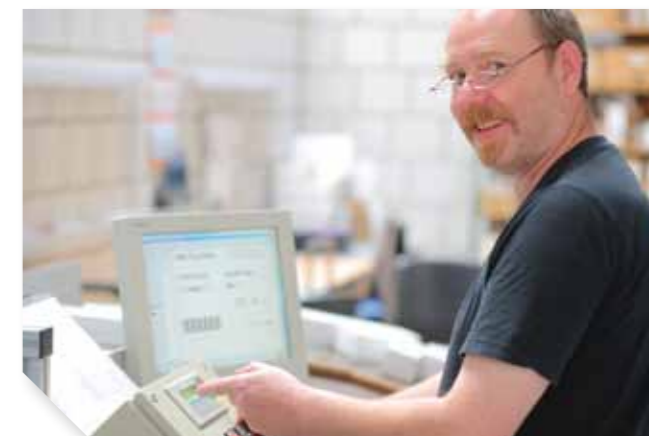
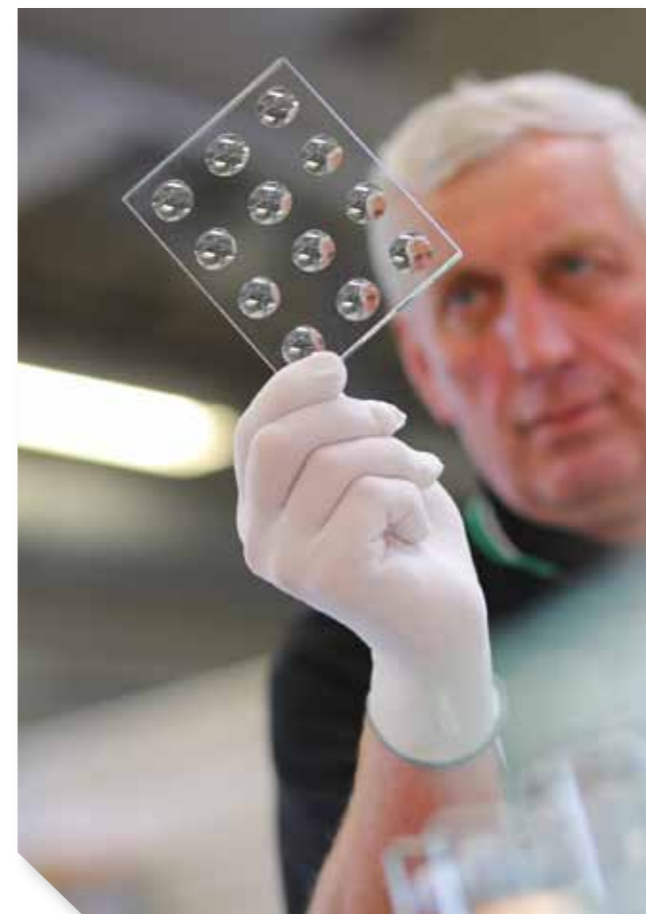
We stock a large amount of inventory for our customers in our high bay warehouse with over 1500 storing positions and 3000 shelves. In our catalogue arrows indicate products which are, usually, immediately available even in large quantities.

Security

According to the EU directive 98/79/EC for in-vitro diagnostic products (IVD) the packing of IVD products bears the CE-mark, the production lot number and a recommended best before date for those products with a limited shelf life. This ensures the traceability of our IVD products and serves as comprehensive customer's information, too.

Since 17th October 2011 we are Authorised Economic Operator Type F for customs simplifications and safety. For information on the status of the AEO please see the website of the European Commission <http://ec.europa.eu>.





Family business in fourth generation

Since our modest beginnings in Thuringia's Geraberg we have continually grown and developed: Out of a small glass grinding production to an internationally operating company.

After the Second World War, Paul Marienfeld set up the production in Coburg, Bavaria. In the fifties of the last century we moved to Bad Mergentheim in Baden-Wuerttemberg.

Progress

After decades of growth the area for our further company's expansion became insufficient. In the year 2000, we built our new factory in Lauda-Koenigshofen which is approx. 40 km south of Wuerzburg. Here we dispose about sufficient space for further growth and are well prepared for the challenges and opportunities of the future.



1922

1930

1940

1950

1960

1970

1980

1990

2000

2018



Interesting facts

Unit This represents the packaging unit. Please take this into consideration by ordering complete units or a multiple of these. In general, this “unit” is the minimum order quantity also. Deviations are indicated in the product descriptions and the price-list. If “unit” is not indicated the packaging is not specified.

Minimum quantity In general, this “unit” is the minimum order quantity also. Deviations are indicated in the product descriptions and the price-list.

Multipack This additional information indicates the contents of a bigger large-size package. If “multipack” is not indicated this packaging is not specified.

▶ This arrow indicates products that are usually available on short notice.

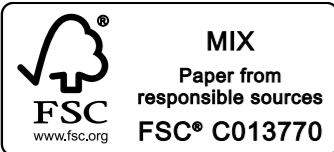
Cat. No.	Multipack	Unit
▶ 6130603	120 x 12	12

IVD directive On 7th December 2003, the European directive 98/79/EC about in-vitro diagnostic products became effective. Those products, which are considered to be IVD products and not general laboratory supplies, bear the CE-mark. All IVD products must be traceable up to the consumer in case of any recall. Therefore, all our customers who are purchasing CE-marked products and distributing them within the area of application of this IVD directive oblige themselves to ensure the required traceability up to their direct customers in order to be able to inform them of a call-back within 12 hours.

We assume no responsibility for misprints or errors. Product details, units and design are subject to technical alterations without notice. All measurements without indication of tolerances are approximate. Pictures serve the purpose of visualization and may not correspond exactly to the described product.

Please note that our Conditions of Sale at the end of this catalogue form the basis of all our sales.

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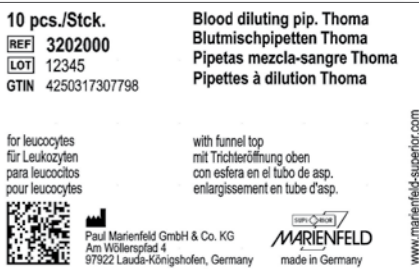


Symbols

On labels and/or packaging:

- manufacturer, company responsible for placing on market
- disposable item, for single use only
- glass, fragile
- to be protected against humidity
- product number
- Global Trade Item Number
- batch number
- recommended best use before date
- DIN ISO regulation
- subject to CE-prescriptions
- subject to IVD-prescriptions
- approximately
- GS1 Datamatrix code contains: GTIN
best use before date (if any)
batch number
quantity per packing unit

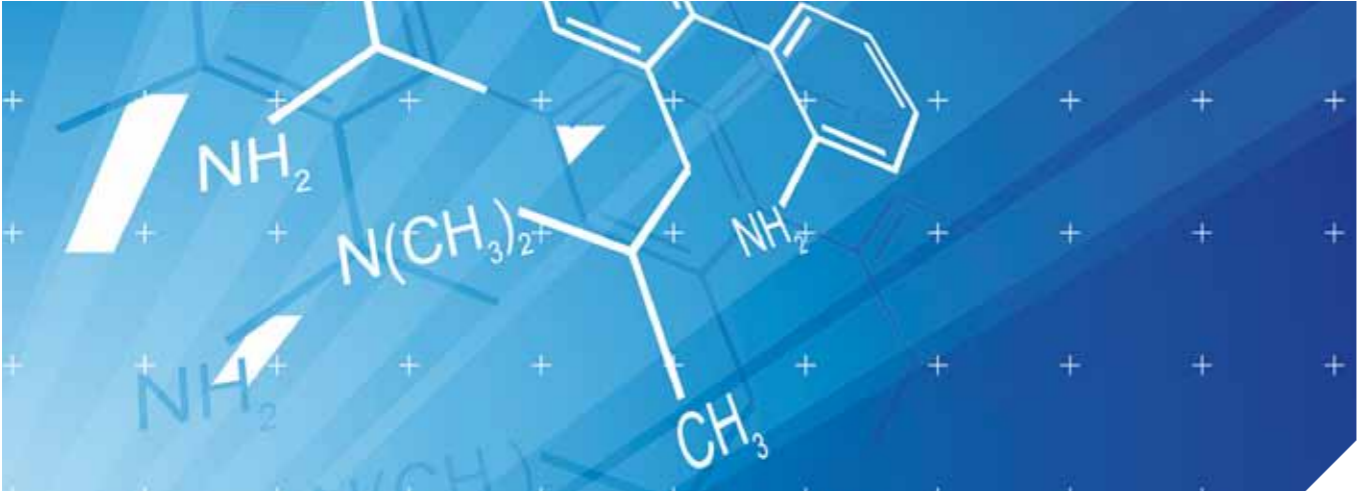
Product details: e. g. size, type, packing



Technical information plastics

Abbreviations of the described plastics acc. to DIN 7728

ABS	Acrylonitrile-butadiene-styrene
ETFE	Ethylene-Tetrafluoroethylene copolymer
PBT	Polybutylene terephthalate
PE-HD	Polyethylene high density
PE-LD	Polyethylene low density
PMP	Polymethylpentene
POM	Polyoxymethylene
PP	Polypropylene
PS	Polystyrene
PTFE	Polytetrafluoroethylene
PVC	Polyvinylchloride



Picture spring: ibolia - U. Bakunowich

	Max. operating temperature	Microwave suitability*	Autoclavable** at 121 °C t _e 20 min per DIN	Hot air sterilization** at 160 °C (dry)
ABS	100 °C	no	no	no
ETFE	150 °C	yes	yes	no
PBT	180 °C	yes	yes	yes
PE-HD	105 °C	yes	no	no
PE-LD	80...90 °C	yes	no	no
PMP	150 °C	yes	yes	no
POM	130 °C	no	yes	no
PP	125 °C	yes	yes	no
PS	70 °C	no	no	no
PTFE	300 °C	yes	yes	yes
PVC	80 °C	no	no	no

* Please observe chemical and temperature resistance.

** Labware should be carefully cleaned and rinsed with distilled water before sterilization.
Please always remove covers from containers.

Technical information glass

This glass is used for microscope slides for its surfaces' properties. Due to his high linear coefficient of expansion it does not withstand thermal shocks.

Soda lime glass

This glass is highly resistant against acids and alkali and perfectly suitable for microscope cover glasses. Due to his high linear coefficient of expansion it does not withstand thermal shocks.

Borosilicate glass D 263® M

This glass is more resistant to variations of temperature than soda lime glass and D 263® M.

Borosilicate glass 5.1

This glass is perfectly suitable for high quality measuring instruments as it is highly resistant against acids and alkali. Due to its small linear coefficient of expansion it withstands thermal shocks very well.

Borosilicate glass 3.3



	Soda lime glass	Borosilicate glass D 263® M	Borosilicate glass 5.1	Borosilicate glass 3.3
Linear expansion coefficient approx.:	9 x 10 ⁻⁶ x K ⁻¹	7 x 10 ⁻⁶ x K ⁻¹	4,9 x 10 ⁻⁶ x K ⁻¹	3,3 x 10 ⁻⁶ x K ⁻¹
Autoclavable:	yes	yes	yes	yes
Hydrolytic resistance (DIN ISO 719):	class 3	class 1	class 1	class 1
Acid resistance (DIN 12 116):	class 3	class 2	class 1	class 1
Alkali resistance (DIN ISO 695):	class 2	class 2	class 2	class 2



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D 263® M Cover glass for microscopy

D 263® M is a clear borosilicate glass produced by a down-draw method. This permits the production of very thin glass thicknesses between 0.10 and 0.21 mm.

D 263® M is used as a cover glass for microscopic analyses and complies to all requirements of DIN ISO 8255-1. Its low autofluorescence and high chemical resistance are preconditions for reliable research results.

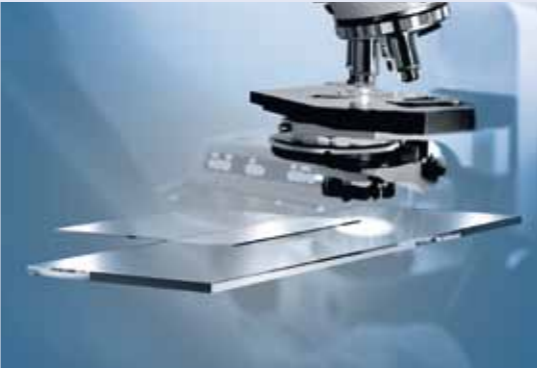
Due to the protective coating and outstanding quality of material it is easily separable and, therefore, well-suited for automated cover slipping equipment.



Applications

Light and fluorescence microscopy, especially in medical and biological science

Features



- high spectral transmission
- refractive index optimized for microscopes
- virtually colourless appearance
- low autofluorescence
- excellent optical and cosmetic quality
- good chemical resistance to environmental conditions facilitates long durability in archiving samples
- low flatness deviations
- complies precisely with the set thickness tolerances
- low alkali content enables cell growth
- good wettability on both glass surfaces
- protective coating facilitates automated separation of individual cover glasses in coverslippers

Technical data (Source: Schott AG)

Luminous transmittance τ_{vD65} (d = 0.15 mm)	91.7 %
Coefficient of mean linear thermal expansion α (20 °C; 300 °C) (static measurement)	$7.2 \cdot 10^{-6} \text{ K}^{-1}$
Transformation temperature T_g	557 °C
Dielectric constant ϵ_r at 1 MHz	6.7
Refractive index n_D	1.5230
Refractive index n_e	1.5255
Abbe value v_e	55
Density ρ (annealed at 40 °C/h)	2.51 g/cm ³



Cover glasses thickness No. 1

Marienfeld Superior cover glasses feature an excellent flatness and smooth surfaces thanks to the best material. No cover glasses made of soda lime glass match the quality of our borosilicate glass coverslips. Even when archived for years preparations keep their optical quality thanks to our non-corroding glass and the particularly low tolerance of the material thickness. Our precise machining processes make sure that our coverslips have the exact size and their edges are cut with high precision. All of our efficient processes include a stringent, integrated quality control and thus ensure high quality coverslips which do not stick together.

Our coverslips are ready for use and well suited for application in automated coverslippers. All these characteristics result in significant advantages for the user.

- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely colourless, perfectly clear, suitable for fluorescence microscopy
- in compliance with DIN ISO 8255
- thickness No. 1 (0.13 to 0.16 mm)
- in boxes made of plastic, 10 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability



Cat. No.	Size	Multipack	Unit
----------	------	-----------	------

Two-part boxes containing 100 pieces

0101000	12 x 12 mm	150 x 1000	1000
0101010	15 x 15 mm	100 x 1000	1000
0101020	16 x 16 mm	100 x 1000	1000
▶ 0101030	18 x 18 mm	100 x 1000	1000
▶ 0101040	20 x 20 mm	100 x 1000	1000
▶ 0101050	22 x 22 mm	75 x 1000	1000
▶ 0101060	24 x 24 mm	75 x 1000	1000

Hinged lid boxes containing 200 or 100 pieces

▶ 0101052	22 x 22 mm	25 x 2000	2000
0101062	24 x 24 mm	25 x 2000	2000
▶ 0101092	21 x 26 mm	25 x 2000	2000
0101102	22 x 30 mm	25 x 1000	1000
▶ 0101112	22 x 32 mm	25 x 1000	1000
▶ 0101122	22 x 40 mm	25 x 1000	1000
▶ 0101142	22 x 50 mm	25 x 1000	1000
▶ 0101152	22 x 60 mm	25 x 1000	1000
▶ 0101172	24 x 32 mm	25 x 1000	1000
▶ 0101182	24 x 36 mm	25 x 1000	1000
▶ 0101192	24 x 40 mm	25 x 1000	1000
0101202	24 x 46 mm	25 x 1000	1000
0101212	24 x 48 mm	25 x 1000	1000
▶ 0101222	24 x 50 mm	25 x 1000	1000
▶ 0101232	24 x 55 mm	25 x 1000	1000
▶ 0101242	24 x 60 mm	25 x 1000	1000

▶ This arrow indicates products that are usually available on short notice.

Cover glasses thickness No. 1 circular

- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely colourless, perfectly clear, suitable for fluorescence microscopy
- in compliance with DIN ISO 8255
- thickness No. 1 (0.13 to 0.16 mm)
- in two-part plastic boxes containing 100 pieces, 10 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability

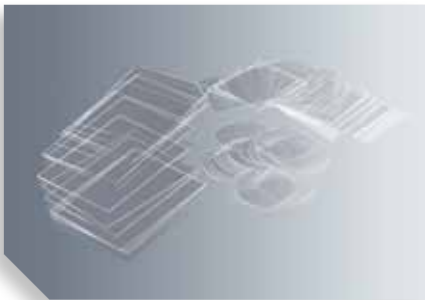
Cat. No.	Size	Multipack	Unit
0111500	10 mm Ø	150 x 1000	1000
0111520	12 mm Ø	150 x 1000	1000
0111530	13 mm Ø	150 x 1000	1000
0111540	14 mm Ø	150 x 1000	1000
0111550	15 mm Ø	100 x 1000	1000
0111560	16 mm Ø	100 x 1000	1000
0111580	18 mm Ø	100 x 1000	1000
0111600	20 mm Ø	100 x 1000	1000
0111620	22 mm Ø	75 x 1000	1000
0111640	24 mm Ø	75 x 1000	1000
0111650	25 mm Ø	75 x 1000	1000
0111700	30 mm Ø	in cardboard boxes of 100 pieces	1000

For other sizes, thicknesses and packaging, please send us your enquiry.

Cover glasses thickness No. 1 hydrophobic

- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely transparent, suitable for fluorescence microscopy
- with super hydrophobic surfaces on both sides (e.g. for use in crystallography)
- thickness No. 1 (0.13 to 0.16 mm)
- in two-part plastic boxes containing 100 pieces, 10 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability

Cat. No.	Size	Multipack	Unit
0895002	12 mm Ø	150 x 1000	1000
0895012	18 mm Ø	100 x 1000	1000
0895022	22 mm Ø	75 x 1000	1000
0895202	12 x 12 mm	150 x 1000	1000
0895222	18 x 18 mm	100 x 1000	1000
0895242	22 x 22 mm	75 x 1000	1000





Precision cover glasses thickness No. 1.5H (Tol. ± 5 µm) for high performance microscopes

Modern high-performance microscope objectives are designed to be used with cover glasses of a thickness of 170 µm. The quality of the cover glass, in particular the compliance with the nominal thickness, has thereby a crucial impact on the imaging quality. Variations of thickness reduce the image contrast and result in image defects, most notably in spherical aberration.

We produce high-precision cover glasses with thickness No. 1.5H featuring an exceptionally accurate thickness of 170 µm ± 5 µm. This new generation of cover glasses is highly recommended for objectives with high numerical aperture and high resolution, for example:

- dry objectives: N.A. > 0.7
- objectives for water immersion: N.A. > 1.0
- objectives for glycerol immersion: N.A. > 1.2
- objectives for oil immersion: N.A. > 1.3
- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely colourless, perfectly clear, suitable for fluorescence microscopy
- in compliance with DIN ISO 8255
- thickness No. 1.5H (0.170 mm ± 0.005 mm)
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability



Cat. No.	Size	Multipack	Unit
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Hinged lid boxes containing 200 or 100 pieces
Minimum quantity is 2000 pieces per size and order

▶ 0107032	18 x 18 mm	25 x 2000	2000
▶ 0107052	22 x 22 mm	25 x 2000	2000
▶ 0107222	24 x 50 mm	25 x 1000	1000
▶ 0107242	24 x 60 mm	25 x 1000	1000

Two-part boxes containing 100 pieces
Minimum quantity is 1000 pieces per size and order

0117500	10 mm Ø	150 x 1000	1000
0117520	12 mm Ø	150 x 1000	1000
0117530	13 mm Ø	150 x 1000	1000
0117580	18 mm Ø	100 x 1000	1000
0117640	24 mm Ø	75 x 1000	1000
0117650	25 mm Ø	75 x 1000	1000

For other sizes, please send us your enquiry.

▶ This arrow indicates products that are usually available on short notice.

Cover glasses thickness No. 1.5 / No. 0 / No. 2

- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely colourless, perfectly clear, suitable for fluorescence microscopy
- in compliance with DIN ISO 8255
- in hinged lid plastic boxes containing 200 resp. 100 resp. 50 pieces, 10 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability

Cat. No.	Size	Multipack	Unit
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Thickness No. 1.5 (0.16 to 0.19 mm)

▶ 0102032	18 x 18 mm	25 x 2000	2000
▶ 0102042	20 x 20 mm	25 x 2000	2000
▶ 0102052	22 x 22 mm	25 x 2000	2000
▶ 0102062	24 x 24 mm	25 x 2000	2000
0102112	22 x 32 mm	25 x 1000	1000
0102122	22 x 40 mm	25 x 1000	1000
0102142	22 x 50 mm	25 x 1000	1000
0102152	22 x 60 mm	25 x 1000	1000
0102172	24 x 32 mm	25 x 1000	1000
▶ 0102192	24 x 40 mm	25 x 1000	1000
▶ 0102222	24 x 50 mm	25 x 1000	1000
▶ 0102242	24 x 60 mm	25 x 1000	1000

Thickness No. 0 (0.085 to 0.115 mm)

Minimum quantity is 10'000 pieces per size and order.

0100032	18 x 18 mm	25 x 2000	2000
0100042	20 x 20 mm	25 x 2000	2000
0100052	22 x 22 mm	25 x 2000	2000
0100062	24 x 24 mm	25 x 2000	2000
0100112	22 x 32 mm	25 x 1000	1000
0100122	22 x 40 mm	25 x 1000	1000
0100142	22 x 50 mm	25 x 1000	1000
0100172	24 x 32 mm	25 x 1000	1000
0100192	24 x 40 mm	25 x 1000	1000
0100222	24 x 50 mm	25 x 1000	1000
0100242	24 x 60 mm	25 x 1000	1000

Thickness No. 2 (0.19 to 0.23 mm)

Minimum quantity is 10'000 pieces per size and order.

0103032	18 x 18 mm	25 x 1000	1000
0103042	20 x 20 mm	25 x 1000	1000
0103052	22 x 22 mm	25 x 1000	1000
0103062	24 x 24 mm	25 x 1000	1000
0103172	24 x 32 mm	25 x 500	500
0103192	24 x 40 mm	25 x 500	500
0103222	24 x 50 mm	25 x 500	500
0103242	24 x 60 mm	25 x 500	500

For other sizes and thicknesses, please send us your enquiry.



▶ This arrow indicates products that are usually available on short notice.

▶ This arrow indicates products that are usually available on short notice.



Cover glasses thickness No. 1 in ounce packing

- made of chemically resistant borosilicate glass D 263® M of first hydrolytic class
- absolutely colourless, perfectly clear, suitable for fluorescence microscopy
- in compliance with DIN ISO 8255
- thickness No. 1 (0.13 to 0.16 mm)
- in hinged lid plastic boxes containing 1 ounce or 2 ounces, 10 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability

Cat. No.	Size	Multipack	Unit
0101053	22 x 22 mm	25 x 10	10 oz
0101103	22 x 30 mm	25 x 10	10 oz
0101123	22 x 40 mm	25 x 10	10 oz
0101143	22 x 50 mm	25 x 10	10 oz
0101173	24 x 32 mm	25 x 10	10 oz
0101193	24 x 40 mm	25 x 10	10 oz
0101224	24 x 50 mm	25 x 20	20 oz
0101233	24 x 55 mm	25 x 10	10 oz
0101243	24 x 60 mm	25 x 10	10 oz
0101244	24 x 60 mm	25 x 20	20 oz

For other sizes and thicknesses, please send us your enquiry.



Cover slip lifters

Cover glasses and microscope slides can be handled easily and conveniently with the Marienfeld Superior cover slip lifter. Sensitive glass plates can be taken gently and are held securely by the vacuum cup. Thanks to its elastic material the cover slip lifter treats the glass surfaces with great care and allows handling without scratching them. This lifter is also a nifty tool for embedding preparations by hand as the cover glasses can be placed safely avoiding bubbles in the mounting medium.

- made of sturdy and resistant materials
- offers long-lasting and reliable operation
- individually packed in a hinged lid box made of plastic, 10 pieces in a carton

Cat. No.	Colour	Multipack	Unit
5923001	black	10 x 1	1

Cover glasses 0.4 mm for counting chambers and haemocytometers

Haemocytometer cover glasses are used to cover specimens in counting chambers. The haemocytometer cover glass is placed on the outer bearings' surfaces and due to their flatness adheres very well. Thus it forms an exact capillary gap and defines the volume of the cell suspension over the counting grid. On our website you will find more detailed information under the keyword counting chambers.

Additional feature: The excellent quality of their edges make our haemocytometer cover glasses well suitable for blood smears.

- made of special optical glass
- ready for use
- ground and polished edges
- individually packed in poly bags, 10 pieces in a plastic box, 10 plastic boxes in a cardboard box

Cat. No.	Size	Multipack	Unit
For in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark and batch number for comprehensive information and traceability			
▶ 0350000	20 x 26 mm	50 x 100	100
▶ 0351000	22 x 22 mm	50 x 100	100
▶ 0352000	24 x 24 mm	50 x 100	100
Without CE-mark, only for sale and application outside EC			
▶ 0360000	20 x 26 mm	50 x 100	100
0361000	22 x 22 mm	50 x 100	100
0362000	24 x 24 mm	50 x 100	100

Cover glass forceps according to Kuehne

- made of nickel-plated steel
- bent shape

Cat. No.	Length	Unit
▶ 6633002	105 mm	10





Histofluid mounting medium

Histofluid is a water-clear adhesive of acrylic resins dissolved in xylene. It hardens fast and due to its optical properties suits perfectly well for embedding microscopic preparations. Shortly after having covered a preparation it can already be examined and filed. Histofluid may also be used to firmly lock and seal bottle caps.

Further advantages are:

- long storing or temperature changes do not cause fissures or deformations in Histofluid layers
- does not turn yellowish when being exposed to UV-radiation
- does not fluoresce
- does not form bubbles
- even sensitive colorations are preserved due to its acid number = 0
- refractive index of 1.5 (nD 20 °C) is adjusted to the microscope slide and cover glass
- water-repellent and dissolves in e.g. xylene, acetone, chloroform, dioxan and toluol
- can be stored in sealed bottles for an unlimited period
- filled into special bottles designed for hazardous materials and bearing the UN code

Cat. No.	Capacity bottle	Multipack	Unit
▶ 6900002	500 ml	9	1

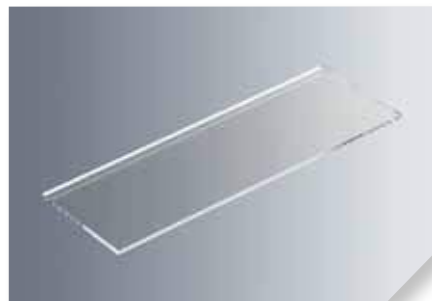
Due to its solvent contents Histofluid is inflammable and, therefore, considered as hazardous. So it has to be especially packed and shipped according to the international transport regulations. We do not export Histofluid by parcel service or air freight but use ocean freight or transport overland only. Before ordering please carefully check your country's import regulations and ensure a smooth transport according to the IMO (International Maritime Organization). Any cost that might arise additionally for documents, reloading, returns etc. will be at your expense.

The safety data sheet can be downloaded from our website.



▶ This arrow indicates products that are usually available on short notice.





Information on our microscope slides

Microscope slides for in vitro diagnostic applications are manufactured acc. to ISO 8037/1 standard and designed for single use by professionals. The slides are used mainly for microscopic investigation of tissue sections and cells from suspensions, preparation of specimens and their archiving.

Marienfeld Superior microscope slides are well wettable and clean. They are manufactured to exact size and, therefore, well suitable for application in automatic machinery.

Material:

Our microscope slides are made of soda lime glass of third hydrolytic class with thickness of approx. 1 mm. This glass fulfills all relevant optical requirements for light microscopy. Its composition and physical properties can be downloaded from our website as a technical data sheet.

Surfaces:

Our slides are cleaned thoroughly by multi-stage processes without using any surfactants. Thus we accomplish ready for use, pre-cleaned, well wettable slides' surfaces. They preserve adhering cells and are well suited for smears of cell suspensions.

Slides' edges:

All grinding and polishing processes are always carried out water-cooled. The supreme quality of our edges is unmatched.

For different applications we offer different types of edges:

- cut edges are suitable for routine applications, when risks of infections do not exist and the economical aspect is of major importance
- finely ground edges with 90° shape. We apply water-cooled grinding processes which results in remarkably smooth and burr-free edges. When handling infectious materials we strongly recommend using this type of slides for increased safety.
- finely ground edges with 90° shape and 4 ground corners chamfered at 45°. These slides reduce the risk of cuts. Some types of automatic machinery and printers require the clipped corners.

Marking areas:

Our silky frosted marking area is suitable for a fine and contrasty writing with pencil. It has a width of approx. 20 mm by standard - other widths can be produced on request. Our twin-frosted slides (at one end, on both sides) can be used from either side without the necessity of searching the surface that bears the frosted area.

Our printed marking area in white colour or light pastel shades accepts notes printed by most types of printers and written with permanent markers (e.g. laboratory marker Cat. No. 6130603). The thin layer of the marking area prevents slides from sticking together and enables using them on automated systems.



Quality control:

All our microscope slides are subject to strict quality controls during the production processes and on the finished product, too.

Shelf life:

Soda lime glass is subject to an aging process which affects the quality of the slides. It is recommended to avoid storing the slides for too long and to use the oldest stocks at first. Your early disposition of slides helps us to optimize our production planning and to supply the slides in time.

Use up the microscope slides until the recommended best-before date. Use the oldest stock at first (first in – first out).

Storage:

- store microscope slides always in a dry place
- open the carton only when slides reached the room temperature
- make sure that temperature remains constant. When cooling down condensation may occur and penetrate between the slides letting them stick together.
- do not store slides close to solvents as this might turn their surfaces hydrophobic

A detailed instruction manual for slides can be downloaded from our website.

Packing:

Our packing material is made from high quality primary material without recycled paper and without plastic coating. As a result, our boxes are resistant to abrasion and do not affect the quality of the microscope slides. After use, they can be disposed as waste paper. Our folded boxes have an enlarged finger hole and the lid can be folded to the rear side which facilitates taking individual slides.

We supply microscope slides in small sales units of 2500 pieces (50 boxes of 50 pieces). This carton is reclosable, easy to handle and stack. Its dimensions are 283 x 146 x 160 mm and the weight is approx. 12 kg.

A pallet can accommodate up to 200'000 slides (80 cartons each 2500 pieces). Its dimensions are 120 x 80 x 93 cm and the gross weight is approx. 1000 kg.

Besides our standard packing we offer the following special packing types:

- tropical packing: Slides individually paper interleaved. In addition, 50 boxes of 50 slides are packed in an aluminium bag.
- aluminium bag: 50 boxes of 50 pieces are packed in a sealed and watertight aluminium bag
- plastic boxes of 100 pieces: Our HistoBond® product line is supplied in these boxes with detachable cover



Microscope slides

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- frosted microscope slides: with a silky frosted marking area of approx. 20 mm on both sides
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 50 pieces
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability



Cat. No.	Type	Multipack	Unit
With cut edges standard packing			
▶ 1000000	plain	4 x 2500	2500
▶ 1000200	frosted	4 x 2500	2500
With cut edges 50 boxes in a watertight aluminium bag			
1005000	plain	4 x 2500	2500
▶ 1005200	frosted	4 x 2500	2500
xx1xxxx	pure white glass with very low autofluorescence		2500
Special type – please amend Cat. No. accordingly. Minimum quantity is 10'000 pieces each per order.			

Cat. No.	Type	Multipack	Unit
With 90° ground edges standard packing			
▶ 1000412	plain	4 x 2500	2500
▶ 1000612	frosted	4 x 2500	2500
With 90° ground edges 50 boxes in a watertight aluminium bag			
1005412	plain	4 x 2500	2500
▶ 1005612	frosted	4 x 2500	2500
xx1xxxx	pure white glass with very low autofluorescence		2500
Special type – please amend Cat. No. accordingly. Minimum quantity is 10'000 pieces each per order.			

▶ This arrow indicates products that are usually available on short notice.

Microscope slides, corners chamfered at 45°

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- chamfered corners reduce the risk of injury
- frosted microscope slides: with a silky frosted marking area of approx. 20 mm on both sides
- especially suitable for application in automatic machinery
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 50 pieces
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Multipack	Unit
With 90° ground edges, 4 ground corners, chamfered at 45° standard packing			
1000812	plain	4 x 2500	2500
▶ 1000912	frosted	4 x 2500	2500

Laboratory markers

The multi-purpose laboratory marker writes on almost any surfaces of glass, plastics and paper. With this permanent marker you can label, for example, microscope slides, embedding cassettes, Petri dishes and CDs.

- the ultra fine tip and the contrasty black colour allow clearly legible writing
- writes immediately (no priming required)
- water-resistant
- resists most laboratory chemicals
- odourless
- non-toxic
- without solvents, aqueous-based
- does not readily dry out and lasts a long time
- with holding clip to attach it to your pocket or writing board
- 12 pieces in a box

Cat. No.	Multipack	Unit
▶ 6130603	120 x 12	12

▶ This arrow indicates products that are usually available on short notice.





Microscope slides in tropical packing

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- frosted microscope slides: with a silky frosted marking area of approx. 20 mm on both sides
- pre-cleaned
- ready for use
- autoclavable
- tropical packing: 50 slides individually paper interleaved
- 50 boxes in a watertight aluminium bag
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Multipack	Unit
With cut edges			
1000004	plain	4 x 2500	2500
1000204	frosted	4 x 2500	2500
With 90° ground edges			
1000414	plain	4 x 2500	2500
1000614	frosted	4 x 2500	2500

Minimum quantity is 10'000 pieces each per order.

Microscope slides in special packing

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 75 x 25 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- frosted microscope slides: with a silky frosted marking area of approx. 20 mm on both sides
- pre-cleaned
- ready for use
- autoclavable
- 72 slides (1/2 Gros) in a folded box
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
With 90° ground edges		
1030415	plain	10 x 144
1030615	frosted	10 x 144

Minimum quantity is 300 gross each per order.
For other sizes and types, please send us your enquiry.



New

Microscope slides with cavities

The cavities of our microscope slides are carefully ground and polished. This results in grooveless, immaculate surfaces.

- made of soda lime glass of third hydrolytic class
- with 90° ground edges
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- cavities with diameter approx. 15 to 18 mm and depth approx. 0.6 to 0.8 mm
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 50 pieces
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Number of cavities	Multipack	Unit
▶ 1320002	1	42 x 50	2 x 50
▶ 1320102	2	42 x 50	2 x 50
▶ 1320202	3	42 x 50	2 x 50
▶ 1320000	1	special packing	10 x 10

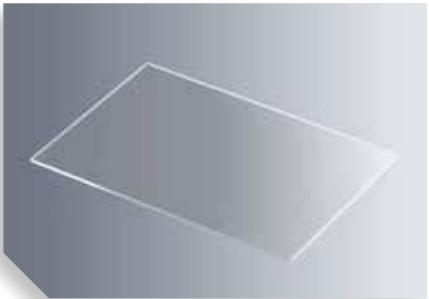


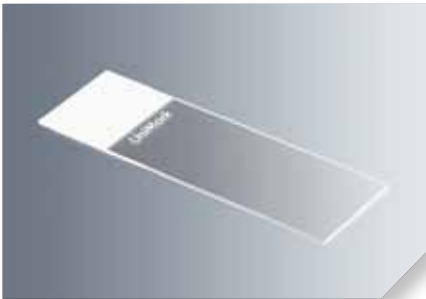
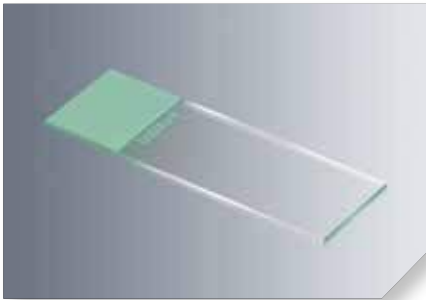
Microscope slides special size 76 x 52 mm

- made of soda lime glass of third hydrolytic class
- dimensions: approx. 76 x 52 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- frosted microscope slides: with a silky frosted marking area of approx. 20 mm on both sides
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 50 pieces, 45 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
With cut edges		
▶ 1100020	plain	2250
1100220	frosted	2250
With 90° ground edges		
▶ 1100420	plain	2250
1100620	frosted	2250

For other sizes and thicknesses please send us your enquiry.





UniMark® microscope slides

UniMark® slides have a printed area of approx. 20 mm which can take notes printed by most types of printers and can be written with permanent markers (e.g. laboratory marker Cat. No. 6130603). Different colours of the labelling area offer the possibility to distinct the preparations (by users, priorities, etc.).

Dark markings contrast especially well with the bright colours of the labelling areas and thus facilitate the identification of preparations. The thin layer of the marking area prevents the slides from sticking together and enables using them on automated systems.

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- pre-cleaned and ready for use
- autoclavable
- 50 pieces in a box
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Colour of marking area	Unit
With cut edges, standard packing		
▶ 0703010	white	2500
0703110	yellow	2500
0703210	green	2500
0703310	blue	2500
0703410	pink	2500
0703510	orange	2500
With cut edges, 50 boxes in an aluminium bag		
0703006	white	4 x 2500
0703106	yellow	4 x 2500
0703206	green	4 x 2500
0703306	blue	4 x 2500
0703406	pink	4 x 2500
0703506	orange	4 x 2500
With 90° ground edges, standard packing		
▶ 0704002	white	2500
▶ 0704102	yellow	2500
▶ 0704202	green	2500
▶ 0704302	blue	2500
▶ 0704402	pink	2500
0704502	orange	2500
With 90° ground edges, 50 boxes in an aluminium bag		
0704007	white	4 x 2500
0704107	yellow	4 x 2500
0704207	green	4 x 2500
0704307	blue	4 x 2500
0704407	pink	4 x 2500
0704507	orange	4 x 2500

▶ This arrow indicates products that are usually available on short notice.

UniMark® microscope slides

Cat. No.	Colour of marking area	Unit
With 90° ground edges, 4 ground corners chamfered at 45°, standard packing		
▶ 0705002	white	2500
0705102	yellow	2500
0705202	green	2500
0705302	blue	2500
0705402	pink	2500
0705502	orange	2500
With 90° ground edges, 4 ground corners chamfered at 45°, 50 boxes in an aluminium bag		
0705007	white	4 x 2500
0705107	yellow	4 x 2500
0705207	green	4 x 2500
0705307	blue	4 x 2500
0705407	pink	4 x 2500
0705507	orange	4 x 2500

UniMark® microscope slides with circles

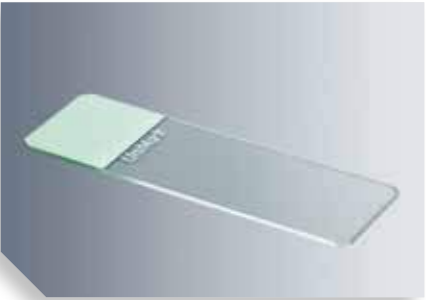
For use in Cytocentrifuges we offer our UniMark® slides also with white circles. These serve as a microscope help for an easier finding of the centrifuged cells.

These slides have a white printed area of approx. 20 mm which can take notes printed by most types of printers and can be written with permanent markers (e.g. laboratory marker Cat. No. 6130603). Dark markings contrast especially well with the bright colours of the labelling areas and thus facilitate the identification of preparations.

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- pre-cleaned and ready for use
- autoclavable
- 50 pieces in a box
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
With 90° ground edges, standard packing		
0704022	with 1 circle of approx. 12 mm Ø int.	2500
0704032	with 2 circles of approx. 12 mm Ø int.	2500

▶ This arrow indicates products that are usually available on short notice.





HistoBond® adhesive microscope slides

HistoBond® microscope slides are suitable for immunohistochemistry and in situ hybridization. They prevent tissue sections to float during washing and cooking. Also problematic tissues (eg, brain or spinal cord) adhere much better to the permanently positively charged glass surfaces. The reliable anchoring saves the production of multiple specimens in most cases and thereby time and costs in the laboratory.

HistoBond® slides have a silky frosted marking area of approx. 20 mm on both sides on which notes can be made by pencils or labels.

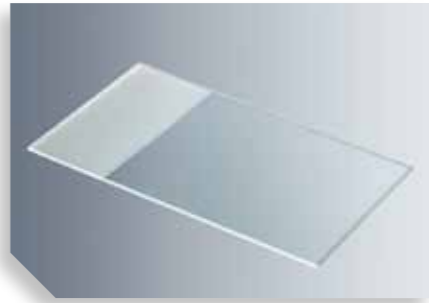
- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- precleaned, ready for use
- autoclavable
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
With 90° ground edges		
▶ 0810000	50 pieces in a cardboard box	2500
▶ 0810001	100 pieces in a plastic box	2000
With 90° ground edges, 4 ground corners chamfered at 45°		
▶ 0830000	50 pieces in a cardboard box	2500
0830001	100 pieces in a plastic box	2000

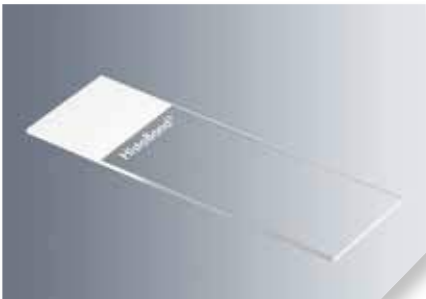
HistoBond®SX adhesive microscope slides
special size 76 x 51 mm

These slides dispose about all properties of our HistoBond® line with silky frosted marking area of approx. 20 mm on both sides.

Cat. No.	Type	Unit
Soda lime glass of third hydrolytic class With 90° ground edges, approx. 76 x 51 mm, thickness approx. 1 mm (tol. ± 0.05 mm)		
0810208	50 pieces in two-part box	2250



▶ This arrow indicates products that are usually available on short notice.



HistoBond®+ adhesive microscope slides

HistoBond®+ microscope slides are suitable for immunohistochemistry and in situ hybridization. Both surfaces of these slides bond tissue sections adhesively with their positive charge. No additional adhesives are required. The reliable anchoring prevents tissue sections to float during washing and cooking and, thereby, saves time and costs in the laboratory.

HistoBond®+ slides have a printed area of approx. 20 mm which can take notes printed by most types of printers and can be written with permanent markers (e.g. laboratory marker Cat. No. 6130603). Different colours of the labelling area offer the possibility to distinct the preparations (by users, priorities, etc.).

Dark markings contrast especially well with the bright colours of the labelling areas and thus facilitate the identification of preparations. The thin layer of the marking area prevents the slides from sticking together and enables using them on automated systems.

- made of soda-lime glass of third hydrolytic class
- meet the requirements of DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- pre-cleaned and ready for use
- autoclavable
- in plastic boxes of 100 pieces, 20 boxes in a carton
- for in vitro diagnostic applications according to IVD Directive 98/79/EC, CE-labelled, with recommended best- before date and batch number for comprehensive information and traceability

Cat. No.	Colour of marking area	Unit
With 90° ground edges		
▶ 0810401	white	2000
▶ 0810411	yellow	2000
▶ 0810421	green	2000
▶ 0810431	blue	2000
0810441	pink	2000
0810451	orange	2000
With 90° ground edges, 4 ground corners chamfered at 45°		
0810701	white	2000
0810711	yellow	2000
0810721	green	2000
0810731	blue	2000
0810741	pink	2000
0810751	orange	2000

▶ This arrow indicates products that are usually available on short notice.

HistoBond®+SX adhesive microscope slides 76 x 51 mm

These slides of special size dispose about all properties of our HistoBond® line with printed marking area.

- made of soda lime glass of third hydrolytic class
- dimensions: approx. 76 x 51 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- with white marking area of approx. 20 mm on one side
- suitable for marking with various printer systems and labelled manually with permanent markers (like laboratory marker Cat. No. 6130603)
- pre-cleaned and ready for use
- autoclavable
- in two-part cardboard boxes of 50 pieces, 45 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

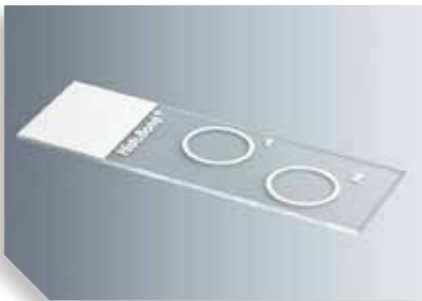
Cat. No.	Colour of marking area	Unit
With 90° ground edges		
0810608	white	2250

HistoBond®+ adhesive slides with circles

For use in Cytocentrifuges we offer our adhesive and positively charged HistoBond®+ slides with white rings. These serve as a microscope help to find the centrifuged cells easier.

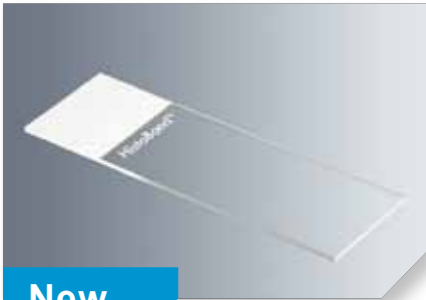
- made of soda-lime glass of third hydrolytic class
- meet the requirements of DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- with white marking area of approx. 20 mm on one side
- suitable for marking with various printer systems and labelled manually with permanent markers (like laboratory marker Cat. No. 6130603)
- pre-cleaned and ready for use
- autoclavable
- in plastic boxes of 100 pieces, 20 boxes in a carton
- for in vitro diagnostic applications according to IVD Directive 98/79/EC, CE-labelled, with recommended best- before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
0810461	with 1 circle of approx. 12 mm Ø int.	2000
0810471	with 2 circles of approx. 12 mm Ø int.	2000





New



New



New

HistoBond®+M adhesive slides

HistoBond®+M slides are suitable for immunohistochemistry and in-situ hybridization. Tissue sections anchor covalently on the glass surface. Even non-polar tissue, e.g. very fatty one that does not cause a charge difference between the adhesive layer and the section, reliably bonds chemically to the glass.

HistoBond®+M slides have an imprinted frosted end of approx. 20 mm, which can be printed with various printer systems and labelled with permanent markers (like laboratory marker Cat. No. 6130603). Dark markings contrast especially well with the bright colours of the labelling areas and thus facilitate the identification of preparations.

The thin layer of the labelling area prevents the slides from sticking together which facilitates the use of these slides on automated machinery.

- made of soda-lime glass of third hydrolytic class
- meet the requirements of DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- pre-cleaned and ready for use
- autoclavable
- in plastic boxes of 100 pieces, 20 boxes in a carton
- for in vitro diagnostic applications according to IVD Directive 98/79/EC, with CE-mark, with recommended best- before date and batch number for comprehensive information and traceability

Cat. No.	Colour of marking area	Unit
With 90° ground edges		
▶ 0811601	white	2000
With 90° ground edges, 4 ground corners chamfered at 45°		
0811701	white	2000

▶ This arrow indicates products that are usually available on short notice.

HistoBond®+S adhesive microscope slides

HistoBond®+S slides are suitable for immunohistochemistry and in-situ hybridization. They offer a considerably higher positive charge than the regular HistoBond®+ slides. This improves the adhesion of the tissue sections to the glass even under less favorable conditions, e.g. when using alkaline reagents.

HistoBond®+S slides have a printed area of approx. 20 mm which can take notes printed by most types of printers and can be written with permanent markers (e.g. laboratory marker Cat. No. 6130603). Different colours of the labelling area offer the possibility to distinct the preparations (by users, priorities, etc.).

Dark markings contrast especially well with the bright colours of the labelling areas and thus facilitate the identification of preparations. The thin layer of the marking area prevents slides from sticking together and enables using them on automated systems

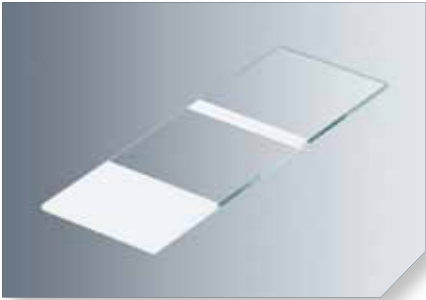
- made of soda-lime glass of third hydrolytic class
- meet the requirements of DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- pre-cleaned and ready for use
- autoclavable
- in plastic boxes of 100 pieces, 20 boxes in a carton
- for in vitro diagnostic applications according to IVD Directive 98/79/EC, CE-labelled, with recommended best- before date and batch number for comprehensive information and traceability

Cat. No.	Colour of marking area	Unit
With 90° ground edges		
▶ 0810501	white	2000
0810511	yellow	2000
0810521	green	2000
▶ 0810531	blue	2000
0810541	pink	2000
0810551	orange	2000
With 90° ground edges, 4 ground corners chamfered at 45°		
0810801	white	2000
0810811	yellow	2000
0810821	green	2000
0810831	blue	2000
0810841	pink	2000
0810851	orange	2000

▶ This arrow indicates products that are usually available on short notice.



New



HistoBond® adhesive slides for capillary gap stainers

These adhesively coated HistoBond® slides for immunohistochemistry are used with staining equipment for capillary gap slides (e.g. Techmate®). The slides are equipped with an 80 µm high spacer stripe and a raised frosted end.

Thus a pair of slides being put together face to face with their printed surfaces forms a capillary gap of approximately 160 µm. The spacer bar and the slide's edge opposite to the frosted end form an adhesively treated area of approximately 25 x 25 mm. Tissue section anchor firmly to these HistoBond® surfaces and endure harsh procedures such as an immunohistochemistry.

The stainer dips the pairs of slides into the reagents and by capillary force the gap between each pair of slides fills up to the spacer stripes. After incubation with one reagent, the capillary gaps are emptied releasing their contents into absorbent pads. These steps are repeated until the slides tissue sections have been fully exposed to all required reagents.

By limiting the active area to 25 x 25 mm² the volumes and thus reducing the amount of reagents applied the cost are reduced to about half the cost of conventional capillary slides that fill up to their frosted ends. In particular savings on expensive antibodies are significant when using the HistoBond® gap slides.

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 25 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- with cut edges
- with 80 µm high spacer stripe
- with white marking area of approx. 20 mm on one side
- suitable for marking with various printer systems and labelled manually with permanent markers (like laboratory marker Cat. No. 6130603)
- pre-cleaned and ready for use
- autoclavable
- in boxes of 50 pieces, 50 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
0890004	Capillary gap slide, active area 25 x 25 mm², gap between 2 slides oriented face to face approx. 160 µm	2500

Adhesion slides

Without losing their antigenicity or ability to function viable cells of suspensions of any body fluid can be anchored to the adhesion slide and investigated for surface antigens, intracellular antigens, cytochemical functions and morphological properties.

The cells adhere so firmly to the slide that they may be washed without coming off. The extremely hydrophobic mask prevents the cells or reagents from spreading into other wells even if the slide is shaken on a Vortex mixer.

Adhesion slide stops losses of cells, saves time and avoids unnecessary steps of centrifugation.

Using a minimum of time and material will result in durable preparations of excellent quality. Up to twelve different tests with different antibodies would be possible on one single slide.

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- with 90° ground edges
- with clipped corners
- with silky frosted marking area of approx. 15 mm on one side
- in storing boxes of 50 or 100 pieces
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Type	Unit
▶ 0900000	12 x 5 mm Ø	50
▶ 0900100	12 x 5 mm Ø	100
0901000	3 x 15 mm Ø	50
0901100	3 x 15 mm Ø	100
0906000	3 square wells 15 x 15 and 4 register marks	50
0906100	3 square wells 15 x 15 and 4 register marks	100

Instructions for PAP and APAAP slide assay can be downloaded from our website.

Preparations on the adhesion slide

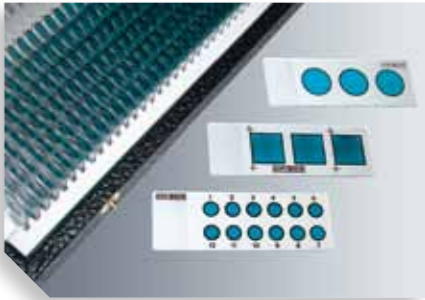
(1) Hematoxylin staining

(2) Immunocytologic double staining for CD36 (dark blue ring indicating membrane staining) and Interleukin 8 (brown dots within the cells). Note the hairy appearance of the dendritic cell membrane, which is uniquely preserved after fixation with glutaraldehyde.

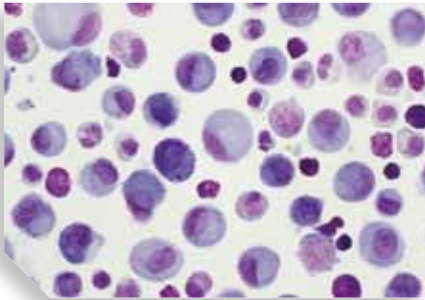
(Immunostaining with sequential ABC technique using 4-CN as substrate for CD36 development and DAB for IL-8; D. Behringer, Zellmarkerlabor, University Hospital of Freiburg)

(3) D20 reactive malignant B-lymphocytes isolated from the cerebrospinal fluid of a patient with B-cell lymphoma thus indicating meningeal spread of the disease. Note the typical hairy appearance of these cells.

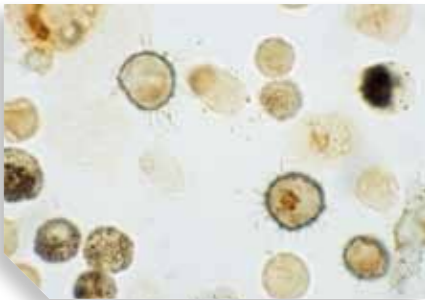
(Immunostaining with immunoperoxidase technique using DAB for CD20 development; fixation: 0.04% glutaraldehyde; D. Behringer, Zellmarkerlabor, University Hospital of Freiburg)



Dendritic cells cultured in vitro and after harvesting attached to Superior slides.



(1)



(2)



(3)

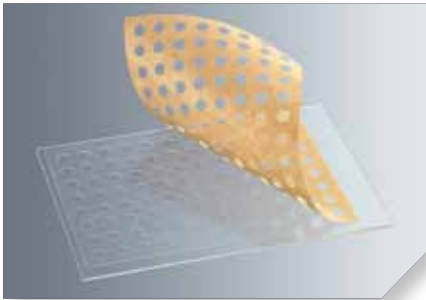


LCP (Lipidic cubic phase) sandwich set

The LCP sandwich set consists of a base glass slide and an optimized cover slip. This product has been developed jointly with the renowned Scripps Research Institute in La Jolla, California, USA.

Application

- optimized for the crystallographic study of membrane proteins. References: V. Cherezov, J. Clogston, M. Z. Papiz, M. Caffrey (2006) Room to Move: Crystallizing Membrane Proteins in Swollen Lipidic Mesophases. Journal of Molecular Biology 357, 1605 – 1618
- developed at the NIH Roadmap Center for membrane protein research (<http://jcimpt.scripps.edu>) and routinely used in GPCR structural biology. References: V. Cherezov, D. M. Rosenbaum, M. A. Hanson, S. G. Rasmussen, F. S. Thian, T. S. Kobilka, H. J. Choi, P. Kuhn, W. I. Weis, B. K. Kobilka and R. C. Stevens (2007) High-resolution crystal structure of an engineered human beta2-adrenergic G protein-coupled receptor. Science 318: 1258-65
- other applications using LCP membrane protein structure based in drug design

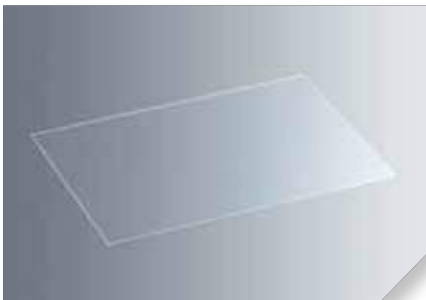


Bottom slide

- dimensions: approx. 127.8 x 85.5 mm, thickness approx. 1 mm
- with superhydrophobic glass surface
- covered with a 0.2 mm high spacer. This spacer has 96 recesses of 5 mm diameter. They are consistent with the SBS format for robotic handling. The spacer has an adhesive surface to which the hydrophobic coverslip attaches. The crystallization drops are, hence, sealed in these reaction chambers.
- in boxes of 20 pieces

Cover slip

- dimensions: approx. 112 x 77 mm, thickness No. 1.5 (0.16 to 0.19 mm)
- with superhydrophobic glass surface
- optimized for bright field, UV and fluorescent microscopy
- in boxes of 20 pieces



Cat. No.		Unit
▶ 0890003	LCP sandwich set: Bottom slide and cover slip High spacer approx. 0.2 mm	20

FRAP (Fluorescent recovery after photobleaching) sandwich set

The FRAP sandwich set consists of a base glass slide and an optimized cover slip. This product has been developed jointly with the renowned Scripps Research Institute in La Jolla, California, USA.

Application

- for development of an automated system of high throughput LCP-FRAP to guide the crystallization of membrane proteins in lipid mesophases. References: F. Xu, W.Liu, M. A. Hanson, R. C. Stevens and V. Cherezov (2011) Development of an automated high throughput LCP-FRAP assay to guide membrane protein crystallization in lipid mesophases Cryst Growth Des 11: 1193-1201
- developed at the NIH Roadmap Center for membrane protein research (<http://jcimpt.scripps.edu>) and routinely used in GPCR structural biology. References: V. Cherezov, D. M. Rosenbaum, M. A. Hanson, S. G. Rasmussen, F. S. Thian, T. S. Kobilka, H. J. Choi, P. Kuhn, W. I. Weis, B. K. Kobilka and R. C. Stevens (2007) High-resolution crystal structure of an engineered human beta2-adrenergic G protein-coupled receptor. Science 318: 1258-65

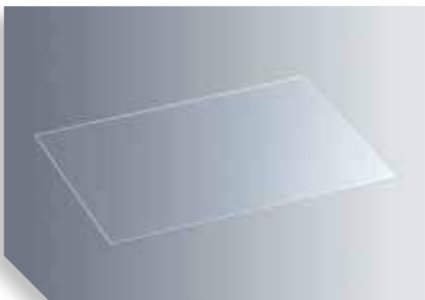
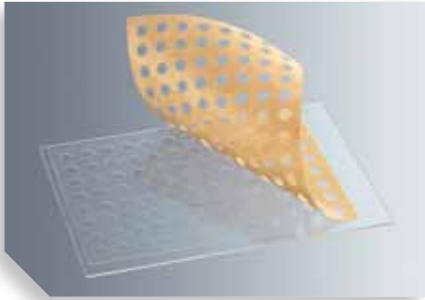
Bottom slide

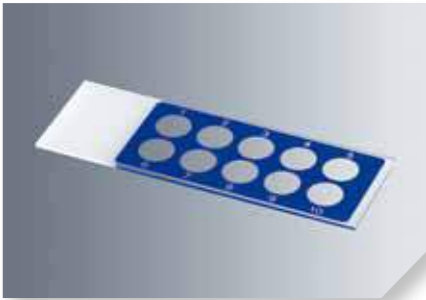
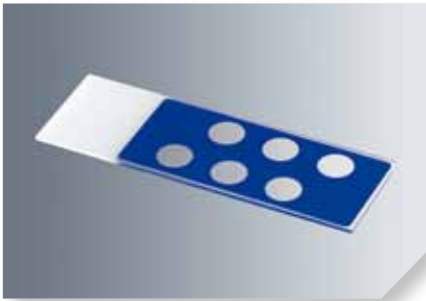
- dimensions: approx. 127.8 x 85.5 mm, thickness approx. 1 mm
- with superhydrophobic glass surface
- covered with a 0.06 mm high spacer. This spacer has 96 recesses of 7 mm diameter. They are consistent with the SBS format for robotic handling. The spacer has an adhesive surface to which the hydrophobic coverslip attaches. The crystallization drops are, hence, sealed in these reaction chambers.
- in boxes of 20 pieces

Cover slip

- dimensions: approx. 112 x 77 mm, thickness No. 1.5 (0.16 to 0.19 mm)
- with superhydrophobic glass surface
- optimized for bright field, UV and fluorescent microscopy
- in boxes of 20 pieces

Cat. No.		Unit
0890005	FRAP sandwich set: Bottom slide and cover slip High spacer approx. 0.06 mm	20





Microscope slides with reaction wells

These microscope slides with well wettable reaction wells are used for diagnosis. The epoxy resin colour masks feature remarkably high resistance against solvents and are available in black, blue, green, red and white colour.

- made of soda lime glass of third hydrolytic class
- in compliance with DIN ISO 8037/1
- dimensions: approx. 76 x 26 mm
- thickness: approx. 1 mm (tol. ± 0.05 mm)
- with 90° ground edges
- with silky frosted marking area of approx. 20 mm on one side
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 50 pieces, 50 boxes in a carton (Multipack)

Cat. No.		Unit
Blue mask		
1216541	1 x 6 mm Ø	4 x 50
1215671	2 x 11 mm Ø	4 x 50
1216491	3 x 14 mm Ø	4 x 50
1216681	3 x 10 mm Ø	4 x 50
1215131	6 x 8 mm Ø	4 x 50
1216751	8 x 6 mm Ø numbered	4 x 50
1216071	8 x 9 mm Ø	4 x 50
1216651	10 x 5 mm Ø	4 x 50
1216691	10 x 6 mm Ø numbered	4 x 50
1216521	10 x 8 mm Ø numbered	4 x 50
1216551	10 x 8 mm Ø	4 x 50
1216821	10 x 7 mm Ø numbered clockwise	4 x 50
1216531	10 x 7 mm Ø	4 x 50
1216331	12 x 5 mm Ø numbered clockwise	4 x 50
For other printing colours please amend Cat. No. accordingly:		
xxxxxx0	black	4 x 50
xxxxxx2	white	4 x 50
xxxxxx3	green	4 x 50
xxxxxx4	red	4 x 50

On request, the slides are also available with adhesive reaction wells.

As a result of the variety of the available masks and due to the limited shelf life, microscope slides with reaction wells are produced upon receipt of your order only. This ensures that you receive slides which come straight from production. The minimum order quantity is 200 pieces. For technical reasons the quantity produced might differ from the quantity originally ordered and we kindly inform you that deliveries of excess and shortage quantities have to be accepted by the client.

Customized masks according to your individual requirements can be manufactured for a minimum quantity of 200 pieces. One-off costs for creating a special mask will be charged separately.

Microscope slides with printed rings

- made of soda lime glass of third hydrolytic class
- with 12 blue printed rings with diameter approx. 13 to 14 mm
- bevelled edges
- clipped corners
- pre-cleaned
- ready for use
- autoclavable
- in boxes of 10 pieces

Cat. No.	Rings	Dimensions	
1613100	12	76 x 52 x 2 mm	10

Microscope slides for blood grouping

- made of white flashed opal glass
- with ground edges
- with frosted marking area
- with 4 ground, polished and marked cavities labelled as: ANTI-A, ANTI-B, ANTI-AB, ANTI-Rh
- cavities: approx. 20 mm diameter, approx. 1.75 mm depth
- without CE-mark, only for sale and application outside EC

Cat. No.	Cavities	Dimensions
1423213	4	150 x 40 x 3 mm

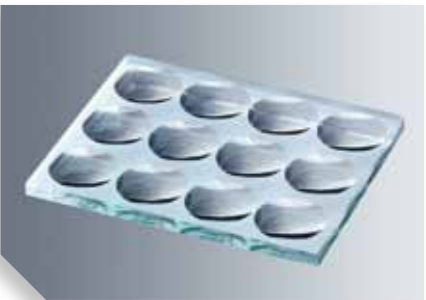
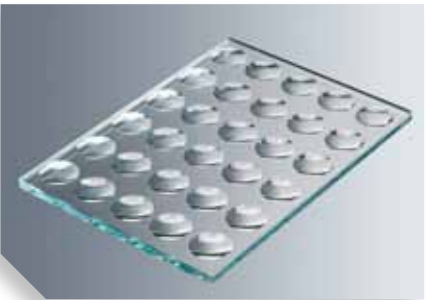
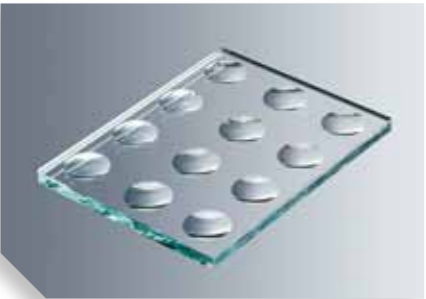
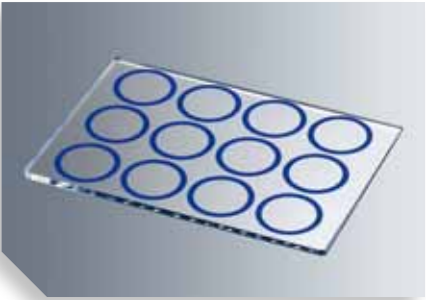
Staining plates

- made of float glass
- with bevelled edges
- clipped corners
- with ground and polished cavities

Cat. No.	Cavities	Dimensions
Cavities: approx. 20 to 22 mm diameter, approx. 2 mm depth		
1406405	6	130 x 100 x 6 mm
1406506	12	130 x 100 x 6 mm
1406708	24	130 x 160 x 6 mm
Cavities: approx. 24 mm diameter, approx. 3 mm depth		
1406703	24	130 x 200 x 6 mm
1406804	30	170 x 200 x 6 mm

- made of float glass
- with bevelled edges
- surface mat
- with ground and polished cavities
- cavities: approx. 16 mm diameter, approx. 1.5 mm depth

Cat. No.	Cavities	Dimensions	Unit
1405500	12	76 x 60 x 4 mm	5





Staining plates acc. to Boerner

- made of pressed glass
- with optically polished, pressed and numbered cavities
- cavities: approx. 14 mm diameter, approx. 2 mm depth

Cat. No.	Cavities	Dimensions	Unit
▶ 1800001	10	107 x 57 x 4 mm	6



Staining Plates

- made of pressed glass
- with bevelled edges
- surface mat
- cavities: approx. 16 mm diameter, approx. 2 mm depth
- 10 pieces in a carton

Cat. No.	Cavities	Dimensions	Unit
1800003	12	79 x 63 x 4 mm	15



Microflocculation plates

- made of pressed glass
- with optically polished, pressed and numbered cavities
- cavities: approx. 15 mm diameter, approx. 1.5 mm depth
- with overflow grooves

Cat. No.	Cavities	Dimensions	Unit
▶ 1800002	12	89 x 57 x 4.5 mm	12



Staining jars acc. to Hellendahl

- made of heavy-walled soda lime glass (pressed glass)
- with cover
- offers space for up to 8 microscope slides (approx. 76 x 26 mm)

Cat. No.	Type	Unit
▶ 4200000	with enlargement	10
▶ 4200001	without enlargement	10



Staining jars acc. to Coplin

- made of polypropylene
- break-resistant
- with screw cap
- offers space for up to 10 microscope slides (approx. 76 x 26 mm)

Cat. No.	Multipack	Unit
5600003	50 x 10	10



Staining jars acc. to Coplin

- made of heavy-walled soda lime glass (pressed glass)
- with screw cap made of black urea resin 131.5 with PE foam insert 1 mm, thread size GPI 48-500 (Cat. No. 5458752)
- offers space for up to 10 microscope slides (approx. 76 x 26 mm)

Cat. No.		Unit
4200030	tall shape	6
4200031	low shape	6



Staining jars acc. to Coplin

- made of heavy-walled soda lime glass (pressed glass)
- with cover
- offers space for up to 10 microscope slides (approx. 76 x 26 mm)

Cat. No.	Unit
▶ 4200003	10



Staining jars acc. to Schiefferdecker

- made of heavy-walled soda lime glass (pressed glass)
- with cover
- dimensions with cover approx. 89 x 70.5 x 46 mm
- offers space for 10 individual microscope slides (approx. 76 x 26 mm) or 10 pairs of slides placed adjacently back-to-back

Cat. No.	Unit
▶ 4200002	10



Soda lime glass has got a relatively high coefficient of expansion. Due to their material the glass staining articles must not be exposed to rapid temperature changes. They have to be heated slowly and also cooled down slowly in order to avoid cracks caused by tensions.



Staining jars

This staining set consists of glass dish, staining tray and wire handle.

- dish and cover are made of heavy-walled soda lime glass (pressed glass)
- dimensions glass dish with cover: 105 x 85 x 70 mm
- staining tray offers space for up to 10 microscope slides (approx. 76 x 26 mm)

Cat. No.		Unit
▶ 4200004	glass dish with cover	10
▶ 4200005	staining tray	10
▶ 6611000	wire handle for staining tray	10



Staining jars

This staining set consists of glass dish and staining tray made of stainless steel.

- dish and cover are made of heavy-walled soda lime glass (pressed glass)
- dimensions glass dish with cover: 105 x 85 x 70 mm
- staining tray offers space for up to 10 microscope slides (approx. 76 x 26 mm to approx. 76 x 52 mm)

Cat. No.		Unit
▶ 4200004	glass dish with cover	10
▶ 6618000	staining tray, made of stainless steel	10

Soda lime glass has got a relatively high coefficient of expansion. Due to their material the glass staining articles must not be exposed to rapid temperature changes. They have to be heated slowly and also cooled down slowly in order to avoid cracks caused by tensions.



Staining jars Hausser/Gedigk

This staining set consists of glass dish and staining tray made of stainless steel.

- dish is made of heavy-walled soda lime glass (pressed glass)
- cover is made of soda lime glass, with frosted rim of 10 mm width
- staining tray offers space for up to 60 microscope slides (approx. 76 x 26 mm)

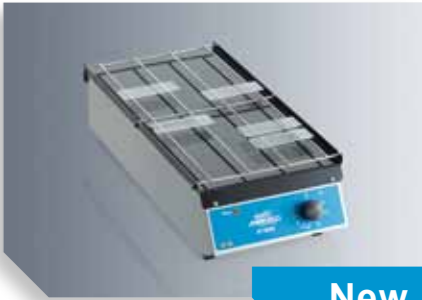
Cat. No.		Dimensions	Multipack
▶ 4200012	glass dish	130 x 93 x 121 mm	12
▶ 4200013	cover	130 x 93 x 3 mm	
▶ 6618005	staining tray		24

▶ This arrow indicates products that are usually available on short notice.

Drying benches for microscope slides

- for up to 48 microscope slides 76 x 26 mm
- temperature adjustable from 30 to 115 °C
- with removable support
- housing made of lacquered aluminium
- slides can be placed both on the bench and the support
- dimensions: 395 x 186 x 105 mm
- with CE-mark

Cat. No.	Electric mains	Unit
7204231	230 V / 50-60 Hz	1



New

Staining bridges

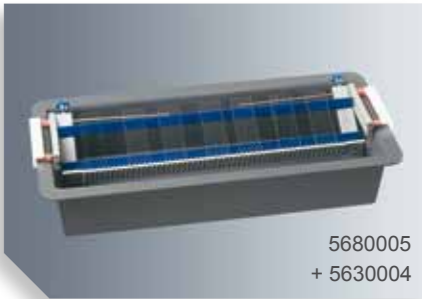
- made of PVC
- adjustable to different trays
- with 2 holding clamps
- length: approx. 380 mm
- both grips can be extended by each 115 mm
- with inclination and horizontal fastening
- when used with our tray Cat. No. 5630004 a safety pin offers secure positioning when the bridge is inclined. Additionally, a second safety pin allows the fastening of the bridge in a horizontal position.

Cat. No.
▶ 5680005

Staining trays

- for use with staining bridges
- made of dark grey PVC
- inner dimension: 376 x 163 x 72 mm
- outer dimension: 414 x 206 x 75 mm

Cat. No.	Multipack
▶ 5630004	5



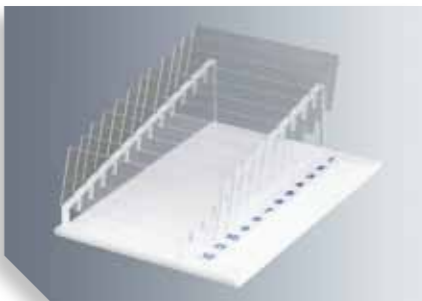
5680005
+ 5630004

Racks for microscope slides

This rack is useful for preparation and drying of microscope slides.

- made of plexiglass
- with numbered slots and marking area
- offers space for up to 12 microscope slides (approx. 76 x 26 mm)

Cat. No.
▶ 5680007



▶ This arrow indicates products that are usually available on short notice.



Writing diamonds

- for permanent labelling of microscope slides and other glass products
- engraved information on glass is resistant to humidity, heat, cold and solvents
- indelibly engraved markings comply particularly with the guidelines of GLP (good laboratory practices)
- with wooden handle

Cat. No.
▶ 6120300



Slide mailers

Slide mailers are useful for transport, archiving and staining of microscope slides.

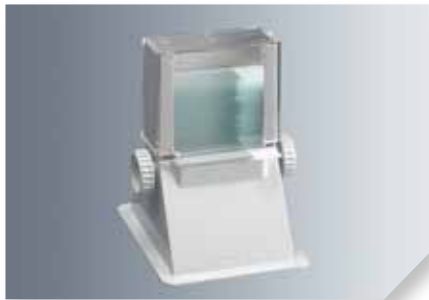
- made of polyethylene (PE-HD)
- break-resistant
- oval shape
- thanks to guide rails inside slides can be accommodated and transported without contacting each other
- with secure closure
- offers space for up to 2 microscope slides (approx. 76 x 26 mm)

Cat. No.	Multipack	Unit
▶ 5600065	5 x 100	100



- made of polypropylene
- break-resistant
- cube-shaped
- thanks to guide rails inside the slides can be accommodated and transported without contacting each other
- with secure closure
- offers space for up to 5 microscope slides (approx. 76 x 26 mm)

Cat. No.	Unit
▶ 5610067	100



Dispensers for microscope slides

Individual microscope slides are pushed out of the dispenser by turning the knob. The dispenser facilitates easy and convenient taking of slides.

- made of grey ABS
- transparent housing allows the monitoring of the filling level
- offers space for up to 50 microscope slides (approx. 76 x 26 mm)

Cat. No.
5660040

▶ This arrow indicates products that are usually available on short notice.

Preparation pasteboards "Munich"

- made of cardboard
- base with 3 compartments approx. 78 x 220 mm each for 8 slides (approx. 76 x 26 mm)
- with hinged cover with 3 windows each approx. 56 x 200 mm
- offers space for up to 24 microscope slides (approx. 76 x 26 mm)

Cat. No.	Dimensions	Unit
6001313	260 x 235 x 8 mm	10



Preparation pasteboards for microscope slides 76 x 26 mm

- made of cardboard
- with cover
- standard type
- thanks to its recessed grips microscope slides can be easily taken out

Cat. No.	For slides	Dimensions	Unit
▶ 6001000	2	100 x 80 x 6 mm	50



- made of cardboard
- with cover
- with reinforced textile tape in the fold capable to endure numerous openings and closings
- with index card on the outside
- thanks to its recessed grips microscope slides can be easily taken out

Cat. No.	For slides	Dimensions	Unit
6002000	2	100 x 80 x 6 mm	50
6002002	5	185 x 100 x 6 mm	10
6002003	6	210 x 100 x 6 mm	10
▶ 6002004	10	340 x 103 x 6 mm	20
▶ 6002007	20	340 x 205 x 6 mm	10



Preparation tables for microscope slides 76 x 26 mm

- made of cardboard
- without cover
- thanks to its recessed grips microscope slides can be easily taken out
- with numbering

Cat. No.	For slides	Dimensions	Unit
▶ 6000007	20	340 x 205 x 5 mm	20



▶ This arrow indicates products that are usually available on short notice.



Storage boxes
for microscope slides 76 x 26 mm

- made of polypropylene
- stackable
- with 2 securely closing clasps
- with index card enclosed
- with numbered slots. The numbers are still readable even when the box is filled.
- with plastic slots designed for easy taking out of the slides by means of inclination

Cat. No.	For slides	Dimensions	Colour	Unit
▶ 5610022	100	264 x 192 x 36 mm	black	10



- made of polystyrene
- with dust-tight securely snap-on lid
- with index card enclosed
- with numbered slots inside

Cat. No.	For slides	Dimensions	Colour	Unit
5620020	25	97 x 83 x 39 mm	grey	4
▶ 5620023	50	170 x 82 x 30 mm	white	



- made of polystyrene
- standard colour: white
- available also in blue, green, yellow or red colour (minimum order quantity 200 pieces)
- with dust-tight box with hinged lid
- with plastic closure at front side
- with index card enclosed
- with numbered slots inside
- multipack: 60 pieces in a carton

Cat. No.	For slides	Dimensions	Colour
▶ 5620024	100	210 x 164 x 30 mm	white



- with wooden frame
- cover and base are made of cardboard
- coated with black paper
- with hinges and securely closing clasps made of metal
- with index card in cover
- with numbered slots. The numbers are still readable even when the box is filled.
- with plastic slots designed for easy taking out of the slides by means of inclination

Cat. No.	For slides	Dimensions	Unit
6003005	12	100 x 85 x 35 mm	10
▶ 6003008	25	150 x 100 x 35 mm	10
▶ 6003009	50	270 x 100 x 35 mm	10
▶ 6003010	100	270 x 190 x 35 mm	10

▶ This arrow indicates products that are usually available on short notice.

Petri dishes, glass

- made of soda lime glass of 3. hydrolytic class
- free of cadmium and lead
- bottom part and cover lid are both very flat. This evenness facilitates the uniform spreading of nutrient media and liquids. Optical distortions are minimized when looking at our Petri dishes' bottoms.
- sterilisable up to 135 °C
- for multiple use

Cat. No.	Ø Cover ext. x height bottom part	Unit
▶ 3400300	60 x 15 mm	144
▶ 3400600	80 x 15 mm	144
▶ 3401000	100 x 15 mm	72
▶ 3401100	100 x 20 mm	72
▶ 3401200	120 x 20 mm	72
▶ 3401300	150 x 25 mm	72
3401500	180 x 30 mm	6
3401600	200 x 30 mm	6



Petri dishes, plastic

- made of polystyrene
- crystal clear material with excellent transparency
- dimensions: approx. 94 x 16 mm
- machine-sterile, manufactured under conditions with low bacterial count
- gamma sterilisable
- heat-resistant up to approx. 80 °C
- for single use
- well stackable and inherently stable
- well suited for the filling by fully or semi-automatic machines
- 20 pieces in a poly bag, 24 bags in a carton

Cat. No.	Type	Unit
▶ 5200700	with vents in the cover	480
▶ 5200701	without vents	480



▶ This arrow indicates products that are usually available on short notice.



Spatula Drigalski

The spatula Drigalski facilitates uniform distribution and plating of bacteria material on solid nutrient media.

- made of glass
- dimensions: approx. 145 x 50 x 5 mm

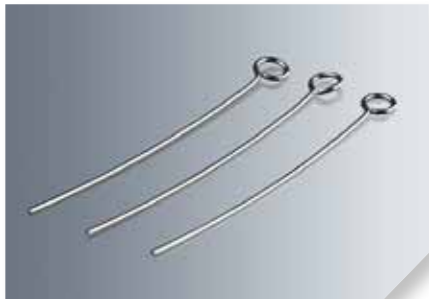
Cat. No.	Multipack	Unit
▶ 1800024	10 x 10	10



Needle holders acc. to Kolle

- made of nickel-plated brass
- length: approx. 255 mm
- with handle made of plastic

Cat. No.	Multipack	Unit
▶ 6630000	50 x 10	10



Inoculation loops for needle holders acc. to Kolle

- made of stainless steel wire
- length: approx. 35 mm
- diameter of loop: approx. 5 mm
- diameter of wire: approx. 0.5 mm
- 100 pieces in a poly bag

Cat. No.	Capacity of loop	Unit
6624000	approx. 7 µl	100



Inoculation loops

For inoculation of nutrient media. Its high flexibility permits gentle streaking without damaging the surface of a nutrient medium.

- made of polystyrene
- with loop at one end and needle at the other end
- gamma sterilized
- for single use
- 20 pieces in a bag, 50 bags in a carton

Cat. No.	Capacity of loop	Colour	Multipack	Unit
5203000	approx. 1 µl	nature	8 x 1000	1000
5203001	approx. 10 µl	blue	8 x 1000	1000

▶ This arrow indicates products that are usually available on short notice.

Mailing containers for pathology

- made of polypropylene
- break-resistant
- standing on solid base
- with tightly closing screw cap made of polyethylene (PE-HD)
- the rounded bottom facilitates taking out smaller tissue samples
- for enhanced protection against leakage during transport the bigger containers can accommodate smaller ones (e.g. 20 ml fits into 35 ml, 35 ml fits into 50 ml, 50 ml fits into 100 ml). This enables a double-walled protective mailing.

Cat. No.	Capacity	Height	Diameter	Unit
5223200	20 ml	48 mm	31 mm	1000
5223201	35 ml	55 mm	39 mm	500
5223202	50 ml	74 mm	39 mm	500
5223203	100 ml	80 mm	48 mm	250



Vials for pathology

These vials serve to store samples and are mainly used in pathological institutes.

- made of clear glass
- washed
- with screw cap made of aluminium, with black rubber gasket

Cat. No.		Capacity	Height	Ø	Unit
▶ 3612000	Bijou	7 ml	51 mm	21 mm	288
▶ 3613001	McCartney	14 ml	67 mm	26 mm	288
▶ 3615002	Universal, wide neck	28 ml	85 mm	28 mm	144



Embedding cassettes

In histology, tissue sections are placed in embedding cassettes to be dehydrated and impregnated by Paraffin.

- made of high-quality, technical plastic (POM)
- resistant against the solvents usually used in laboratories
- different colours offer the possibility of colour coding (for example for different users, priorities, etc.)
- with one 45° inclined and 2 vertical marking areas
- the roughness of the marking areas is optimized to allow labelling by different systems: pencil, permanent markers (like Marienfeld Superior laboratory marker Cat. No. 6130603), inkjet or laser printers
- suitable for all common clamps
- ready for use. There is no need to break the lids off the cassettes' bases. Upper and base parts can also be supplied separated on demand if ordered in large quantities. Thus all types are also available for printing on cassette printers.
- the hinge of our cassettes prevents the cassettes from unintended opening – even when they fall down accidentally. Furthermore, our cassettes can be repeatedly opened and securely closed again.
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability
- without lid
- with accurately fitting neps at the back to fasten standardised stainless steel lids
- entirely perforated bases increase the adhesion of paraffin blocks to the cassettes
- 500 pieces in a bag, 20 bags in a carton
- minimum quantity: 1.000 pieces each type and colour



Cat. No.	Colour	Multipack
Standard perforation: 2.3 mm diameter		
▶ 5252500	light blue	10'000
▶ 5252501	yellow	10'000
▶ 5252502	light green	10'000
▶ 5252503	grey	10'000
▶ 5252504	white	10'000
▶ 5252507	pink	10'000
▶ 5252508	beige	10'000
▶ 5252509	orange	10'000

▶ This arrow indicates products that are usually available on short notice.

Embedding cassettes

- base and upper parts are connected by a hinge and supplied assembled
- 500 pieces in a box, 12 boxes in a carton
- minimum quantity: 1.000 pieces each type and colour

Cat. No.	Colour	Multipack
Universal perforation: 1 x 5 mm		
▶ 5253000	light blue	6000
▶ 5253001	yellow	6000
▶ 5253002	light green	6000
▶ 5253003	grey	6000
▶ 5253004	white	6000
▶ 5253007	pink	6000
▶ 5253008	beige	6000
▶ 5253009	orange	6000

Cat. No.	Colour	Multipack
Biopsy perforation: 1 x 1 mm		
▶ 5252600	light blue	6000
▶ 5252601	yellow	6000
▶ 5252602	light green	6000
▶ 5252603	grey	6000
▶ 5252604	white	6000
▶ 5252607	pink	6000
▶ 5252608	beige	6000
▶ 5252609	orange	6000

Cat. No.	Colour	Multipack
BioNet perforation: 0.35 x 0.35 mm It is not necessary to insert pads, because no tissue sections will be lost. This saves time and money.		
▶ 5253100	light blue	6000
▶ 5253101	yellow	6000
▶ 5253102	light green	6000
▶ 5253103	grey	6000
▶ 5253104	white	6000
▶ 5253107	pink	6000
▶ 5253108	beige	6000
▶ 5253109	orange	6000

▶ This arrow indicates products that are usually available on short notice.



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Counting grids

The types of counting chambers differ in counting grids and the depths of the chambers. Orthogonal lines form grids which become visible by magnifying them with a microscope.

Neubauer-improved

The Neubauer-improved counting chamber has become the most popular one.

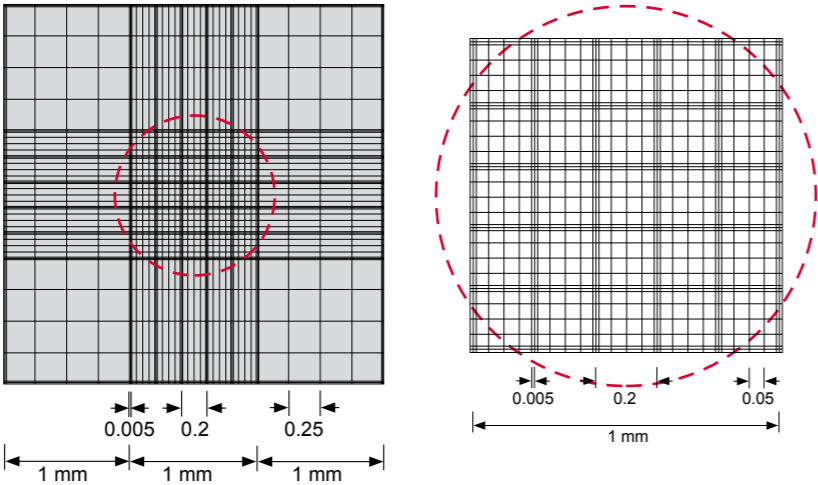
Its standard depth is 0.1 mm. The grid consists of 3 x 3 large squares with areas of 1 mm² each. The large square in the center is subdivided into 5 x 5 group squares with edges of 0.2 mm length each. These group squares are again subdivided into sixteen small squares of an area of each 0.05 mm x 0.05 mm = 0.0025 mm².

The lines limiting the large squares and the group squares are threefold with the central line as the actual dimension lines. The inner and outer auxiliary lines facilitate counting. They assist determining whether cells near or on the border lines are to be counted as within the area or omitted as outside of the counting area.

As the counting chamber comes with squares of different sizes it can be used for counting different types of cells. E.g. leucocytes are counted in the 4 large squares at the corners of the grid and for counting erythrocytes at least 5 group squares are normally used.

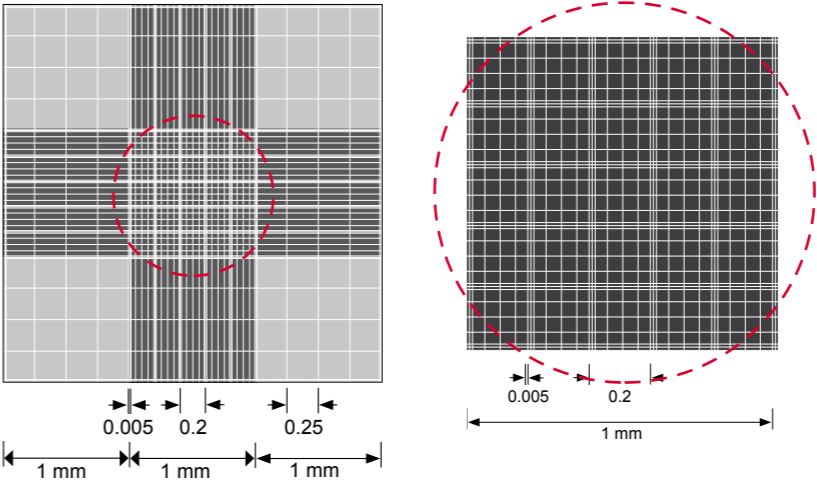
Dark line:
The grids of counting chambers with dark lines are engraved into the glass surface of the base of the chamber. When looking through a microscope these lines appear to be dark.

Neubauer-improved with dark lines



Depth = 0.1 mm	□	mm x mm / 1 □	mm² / 1 □	mm³ = µl
Total net ruling	1	3 x 3	9	0.9
Large squares per grid	9	1 x 1	1	0.1
Group squares per large square	25	0.2 x 0.2	0.04	0.004
Small squares per group square	16	0.05 x 0.05	0.0025	0.00025

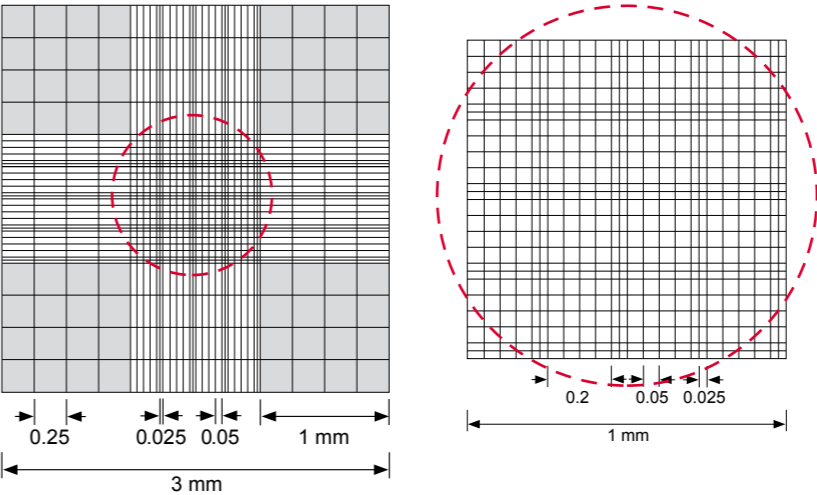
Neubauer-improved with bright lines



Bright line:
The grids of counting chambers with bright lines are engraved into a thin, vapour-deposited metal film. The bright lines contrast well with the darker, metallic background which facilitates the evaluation.

Depth = 0.1 mm	□	mm x mm / 1 □	mm² / 1 □	mm³ = µl
Total net ruling	1	3 x 3	9	0.9
Large squares per grid	9	1 x 1	1	0.1
Group squares per large square	25	0.2 x 0.2	0.04	0.004
Small squares per group square	16	0.05 x 0.05	0.0025	0.00025

Neubauer



The depth of the Neubauer chamber is 0.1 mm.

Its net ruling covers 3 mm x 3 mm in total and consists of 9 large squares of 1 mm each side length.

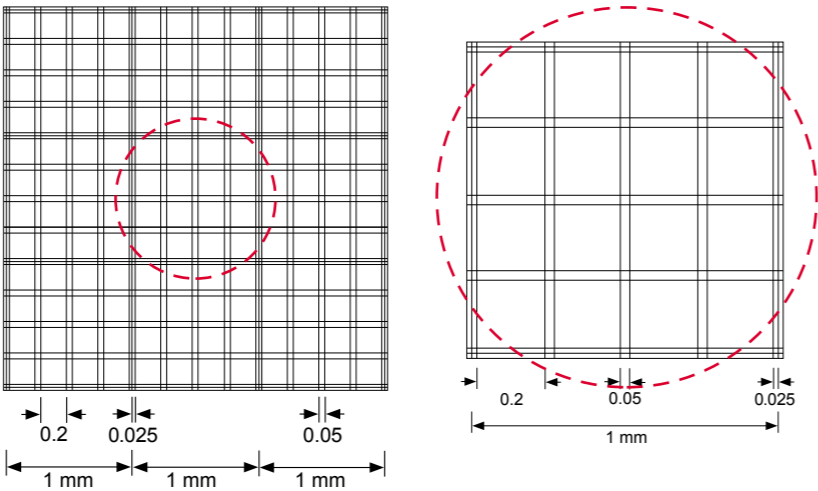
The central large square is subdivided in 4 x 4 group squares of 0.2 x 0.2 mm². Triple lines in a distance of 0.025 mm separate the group squares from each other. Each group square is subdivided in 16 small squares of 0.05 mm side length.

Depth = 0.1 mm	□	mm x mm / 1 □	mm² / 1 □	mm³ = µl
Total net ruling	1	3 x 3	9	0.9
Large squares per grid	9	1 x 1	1	0.1
Group squares per large square	16	0.2 x 0.2	0.04	0.004
Small squares per group square	16	0.05 x 0.05	0.0025	0.00025

The depth of the Buerker counting chamber is 0.1 mm. Its counting grid covers 9 mm² and is subdivided by triple lines into 9 large squares. The distances between the middle lines are 1 mm.

Each of these large squares is subdivided into 16 small squares by double lines with 0.05 mm between them. The inner lines of these small squares form areas of 0.2 x 0.2 mm². The crossings of the double lines form small squares of 0.05 x 0.05 mm². These squares are suitable for counting thrombocytes and erythrocytes.

Buerker



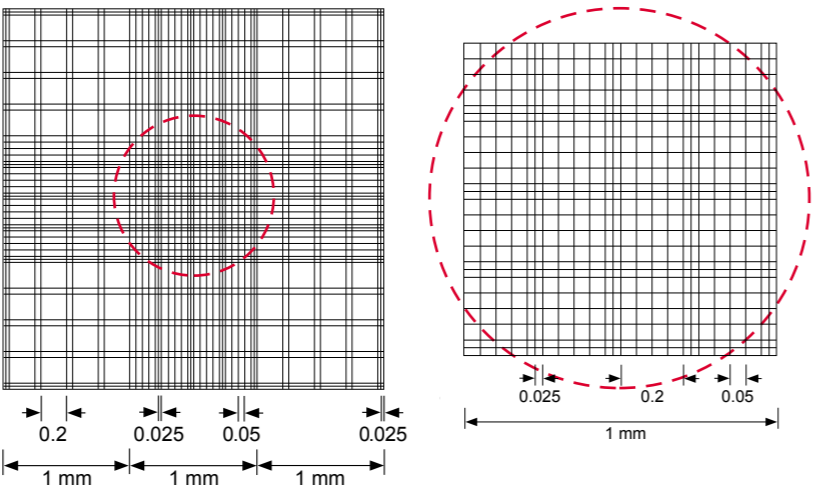
Depth = 0.1 mm	□	mm x mm / 1 □	mm ² / 1 □	mm ³ = µl
Total net ruling	1	3 x 3	9	0.9
Large squares per grid	9	1 x 1	1	0.1
Small squares per Large square	16	0.2 x 0.2	0.04	0.004

The depth of the Buerker-Tuerk chamber is 0.1 mm. The counting grid covers 9 mm² and is subdivided by triple lines into 9 large squares.

Each of these large squares is subdivided into 16 small squares by double lines with 0.05 mm between them. The inner lines of these small squares form areas of 0.2 x 0.2 mm².

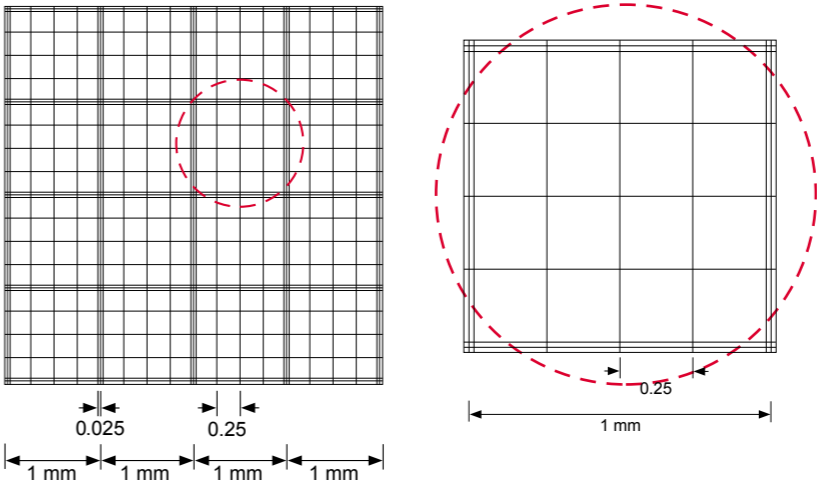
Additionally to the Buerker chamber the 16 small square of the central large square are subdivided again into 16 squares with 0.05 mm length of the edge and an area of 0.0025 mm².

Buerker-Tuerk



Depth = 0.1 mm	□	mm x mm / 1 □	mm ² / 1 □	mm ³ = µl
Total net ruling	1	3 x 3	9	0.9
Large squares per grid	9	1 x 1	1	0.1
Small squares per large square	16	0.2 x 0.2	0.04	0.004
Smallest squares per small square	16	0.05 x 0.05	0.0025	0.00025

Fuchs-Rosenthal

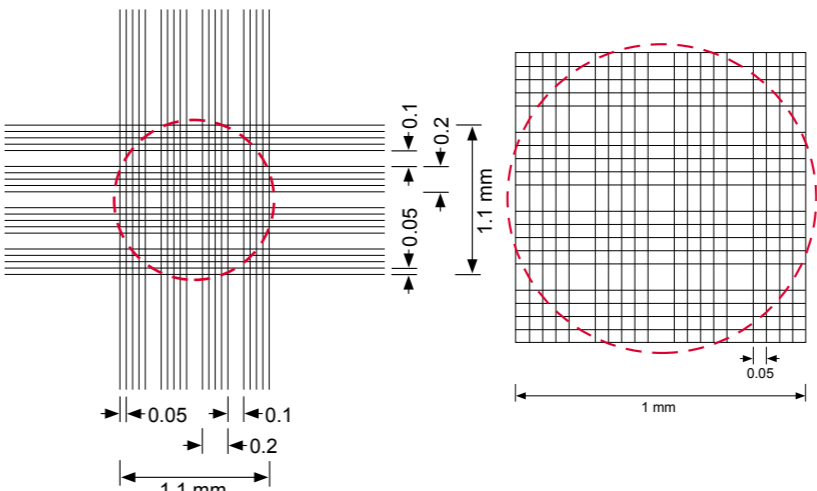


The depth of the Fuchs-Rosenthal counting chamber is 0.2 mm. In total the grid covers 16 mm² and contains 16 large squares of 1 mm length of the edge each. These large squares are separated by triple lines with 0.01 mm between each other. The distance between the center lines is 1 mm. All 16 large squares are subdivided into 16 small squares of a side length of 0.25 mm.

Due to the large counting grid and a depth of 0.2 mm the total volume amounts to 3.2 µl. This counting chamber is, therefore, preferably used for counting cell suspensions with relatively few cells, e.g. cerebro-spinal fluid.

Depth = 0.2 mm	□	mm x mm / 1 □	mm ² / 1 □	mm ³ = µl
Total net ruling	1	4 x 4	16	3.2
Large squares per grid	16	1 x 1	1	0.2
Small squares per large square	16	0.25 x 0.25	0.0625	0.0125

Thoma new



The depth of the Thoma new counting chamber is 0.1 mm. The grid covers an area of 1.1 x 1.1 mm². It is subdivided in 16 group squares with a side length of 0.2 mm.

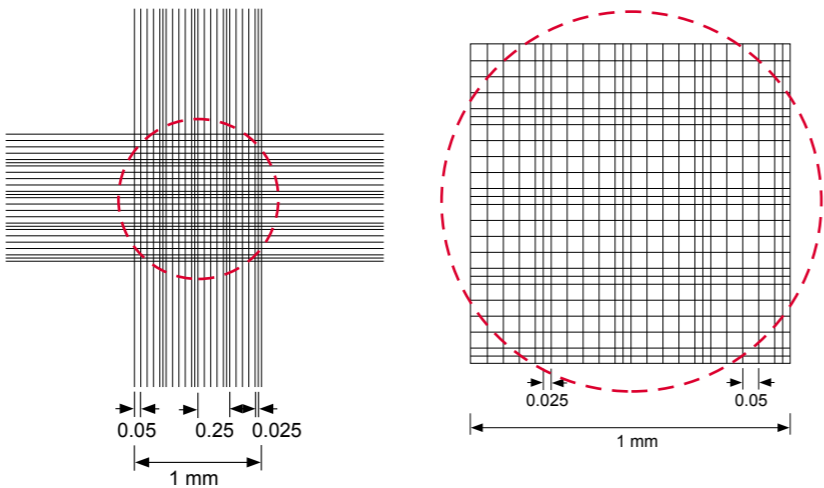
These group squares have a distance of 0.1 mm to the adjacent group squares. They are subdivided into 16 small squares.

The depth of the Thoma counting chamber is 0.1 mm. The grid covers an area of 1 x 1 mm².

It is subdivided into group squares with a side length of 0.2 mm (like the Neubauer system).

The group squares are subdivided into 16 small squares of an area of 0.05 mm x 0.05 mm = 0.0025 mm².

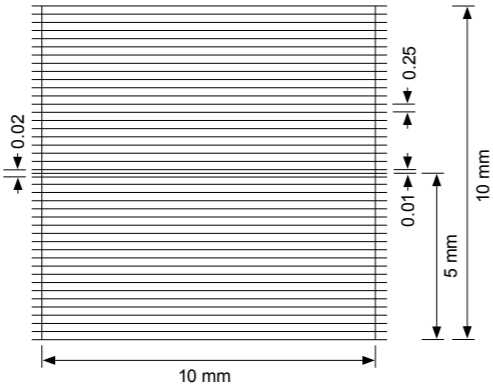
Thoma



The depth of the Nageotte counting chamber is 0.5 mm.

The square area of 100 mm² is divided into 40 rectangles each with an area of 0.25 x 10 = 2.5 mm². This counting chamber is mainly used for counting cells in cerebro-spinal fluid or for counting nematodes.

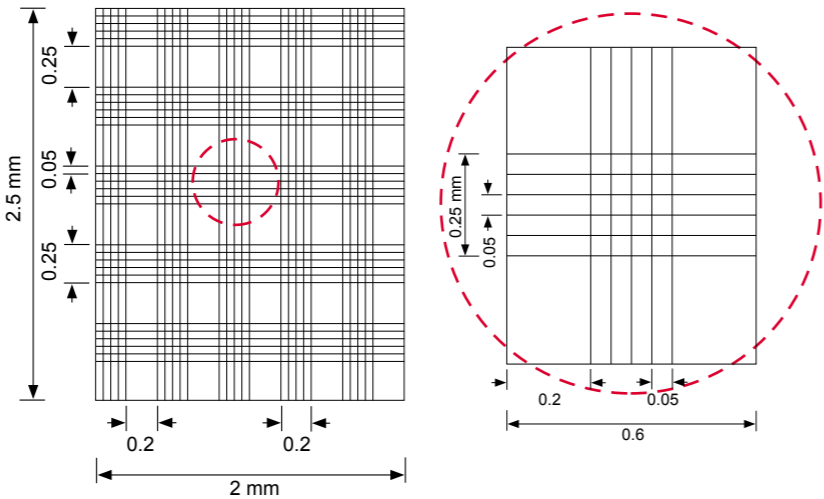
Nageotte



The depth of the Malassez counting chamber is 0.2 mm. The counting grid covers 2 x 2.5 mm². The large rectangles have an area of 0.25 x 0.20 = 0.05 mm². Each of them is subdivided into 20 small squares with an area of each 0.05 mm x 0.05 mm = 0.0025 mm².

This counting chamber is used for counting cells in liquor (cerebro-spinal fluid) and for counting nematodes for example.

Malassez





Counting chambers

Marienfeld Superior counting chambers are precise measuring instruments to determine the number of particles in liquids.

- made of special optical glass
- in compliance with DIN ISO 12 847
- individually tested according to the German Calibration Ordinance
- planarity and tolerances are strictly observed
- tolerance of depth of chamber max. 2 %
- our counting chambers for investigations of cell suspensions are equipped with 2 sets of grids. In-vitro diagnostic (IVD) applications generally require duplicate determinations. Double counting grids = double check possibility.
- a cover glass with a thickness of 0.4 mm is placed on top of both external stages of the counting chamber to limit the volume over the counting grids. Thinner cover slips cannot be used as they bend because of the capillary forces.
- with 2 haemocytometer cover glasses 20 x 26 mm which are suitable for most counting chambers. For spare cover glasses please see page 21.
- counting chambers Fuchs-Rosenthal require cover glasses 24 x 24 mm and counting chambers Nageotte require cover glasses 22 x 30 mm or 30 x 30 mm.
- individually packed in transparent plastic box, 10 pieces in a carton
- counting grids are engraved into two ground and polished surfaces on the central stage (= chamber bottom). This central stage is located between two elevated also ground and polished stages.

- **Dark line:**
Under the microscope the lines of the counting grid of standard counting chambers appear dark.
- **Bright line:**
Counting chambers with bright lines have counting grids which are structured into a very thin, transparent metal coating. The bright lines contrast well with the dark metallic background and this facilitates evaluating cell suspensions.



Counting chambers with V-slash

Counting chambers with V-slash at the exterior sides of the chamber bottom offer various advantages:

- the V-slash facilitates the feeding of the capillary gap between chamber bottom and haemocytometer cover glass
- the risk of overflow is reduced

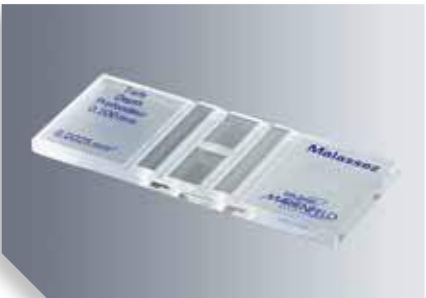
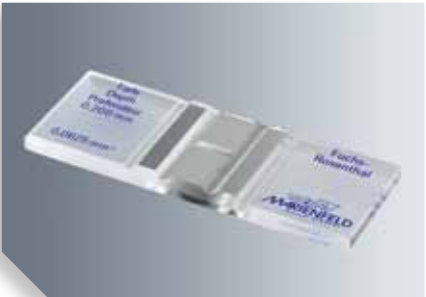
Cat. No.	Depth of chamber	Unit
for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE - mark		
▶ 0650010	Neubauer-improved, dark line	0.1 mm 1
▶ 0650030	Neubauer-improved, bright line	0.1 mm 1

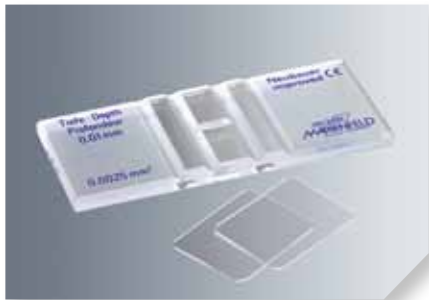
Counting chambers

Cat. No.	Depth of chamber	Unit
for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE - mark		
With dark lines		
▶ 0640010	Neubauer-improved	0.1 mm 1
▶ 0640110	Neubauer	0.1 mm 1
▶ 0640210	Buerker	0.1 mm 1
▶ 0640310	Buerker-Tuerk	0.1 mm 1
▶ 0640410	Fuchs-Rosenthal	0.2 mm 1
▶ 0640510	Nageotte	0.5 mm 1
▶ 0640610	Malassez	0.2 mm 1
▶ 0640710	Thoma	0.1 mm 1
0640810	Thoma new	0.1 mm 1
With bright lines		
▶ 0640030	Neubauer-improved	0.1 mm 1
▶ 0640130	Neubauer	0.1 mm 1
▶ 0640230	Buerker	0.1 mm 1
0640330	Buerker-Tuerk	0.1 mm 1
▶ 0640430	Fuchs-Rosenthal	0.2 mm 1
▶ 0640530	Nageotte	0.5 mm 1
▶ 0640630	Malassez	0.2 mm 1
▶ 0640730	Thoma	0.1 mm 1
0640830	Thoma new	0.1 mm 1

Cat. No.	Depth of chamber	Unit
Without CE-mark, only for sale and application outside EC		
With dark lines		
▶ 0610010	Neubauer-improved	0.1 mm 1
0610110	Neubauer	0.1 mm 1
0610210	Buerker	0.1 mm 1
0610310	Buerker-Tuerk	0.1 mm 1
0610410	Fuchs-Rosenthal	0.2 mm 1
0610510	Nageotte	0.5 mm 1
0610610	Malassez	0.2 mm 1
0610710	Thoma	0.1 mm 1
With bright lines		
▶ 0610030	Neubauer-improved	0.1 mm 1
0610130	Neubauer	0.1 mm 1
0610230	Buerker	0.1 mm 1
0610330	Buerker-Tuerk	0.1 mm 1
0610430	Fuchs-Rosenthal	0.2 mm 1
xxxxxx1	For counting chambers with 2 clamps please amend Cat. No. accordingly	

Information on the use of counting chambers can be downloaded from our website.

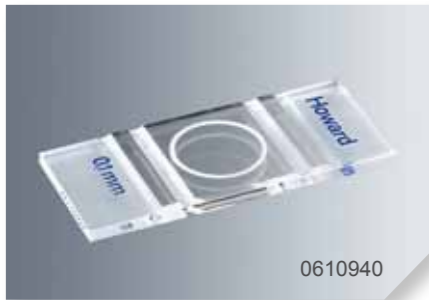




Counting chambers with special depth (Petroff)

Cat. No.	Special depth (Tol. ± 1 µm)		Unit
for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE - mark			
With dark lines			
▶ 0642010	Neubauer-improved	0.01 mm	1
▶ 0642110	Neubauer-improved	0.02 mm	1

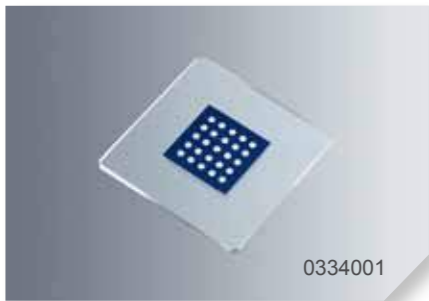
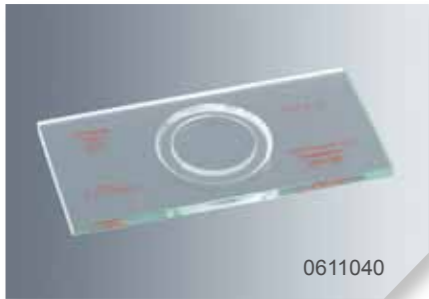
Other types and special depths are available on request (smallest possible depth = 0.01 mm). Minimum order quantity: 10 pieces



Counting chambers Howard

- for the investigation of fruit juices
- depth of chamber: 0.1 mm (Tol. ± 2%)
- line thickness 1.5 - 2 µm

Cat. No.		Unit
▶ 0610940	counting chamber without cover glass with 2 counting lines 1402 µm apart diameter of ring: approx. 18 mm int. and 22 mm ext.	1
0333001	cover glass approx. 25 x 40 x 0.4 mm, ground edges without mask	1
0334002	cover glass approx. 25 x 40 x 0.4 mm, ground edges with metal mask to facilitate counting with 5 x 5 wells each 1.382 mm diameter	1

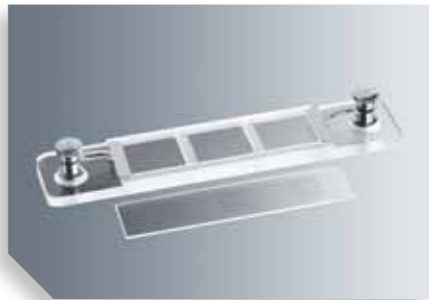


Cat. No.		Unit
0611040	counting chamber without cover glass without counting lines diameter of ring: approx. 20 mm int. and 26 mm ext.	1
0334001	cover glass approx. 33 x 33 x 1 mm, ground edges with blue counting mask approx. 15 x 15 mm with 5 x 5 wells each 1.382 mm diameter	1
0334002	cover glass approx. 25 x 40 x 0.4 mm, ground edges with metal mask to facilitate counting with 5 x 5 wells each 1.382 mm diameter	1

Counting chambers McMaster with 3 grids

- for counting worm eggs
- suitable for liquid media
- dimensions: approx. 127 x 26 mm
- depth: approx. 1.5 mm
- separate cover glass with 3 counting grids approx. 10 x 10 mm (divided into 10 parts)
- with a pair of clamps to affix the cover glass
- ground edges and rounded corners

Cat. No.		Unit
0611141	chamber complete	1
0335001	spare cover glass approx. 80 x 18 mm	1



Counting chambers McMaster with 2 grids

- for counting worm eggs
- suitable for solid media
- dimensions: approx. 75 x 32 mm
- cover glass with 2 counting grids approx. 10 x 10 mm (divided into 10 parts) affixed on 3 supports
- distance between bottom plate and cover glass: approx. 1.5 mm

Cat. No.		Unit
▶ 0611240	chamber complete	1

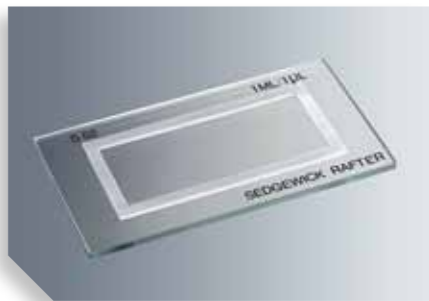


Counting chambers Sedgewick Rafter

Counting chambers acc. to Sedgewick Rafter are intended for counting of particles and microorganisms in water or other transparent liquids.

- the cell of 50 x 20 x 1 mm (= 1 cm³) is ruled in a 1 mm grid subdividing 1 ml in 1000 µl
- supplied with cover glass approx. 60 x 30 x 1 mm

Cat. No.		Unit
▶ 0611300	precision type made of glass with chromium grid for phase contrast use with ground and chamfered edges	1
▶ 0611400	single type made of plastic	1
▶ 0336000	spare cover glass approx. 60 x 30 x 1 mm	1





For pipetting we recommend the Micro pipettor Cat. No. 2960408.

For other types please send us your enquiry.



When pipetting, please note the safety regulations. Pipetting by mouth is dangerous. We disclaim any responsibility.

For other types please send us your enquiry.



Haemocytometers with CE-mark

Complete set in a plastic case consisting of:

- 1 counting chamber with double counting grid and CE-mark
- 2 haemocytometer cover glasses with thickness 0.4 mm
- each 1 blood diluting pipette Thoma red and white with CE-mark

Cat. No.		Depth of chamber	Unit
With dark lines			
▶ 0680010	Neubauer-improved	0.1 mm	1
With bright lines			
▶ 0680030	Neubauer-improved	0.1 mm	1

Haemocytometers without CE-mark

Complete set in a plastic case consisting of:

- 1 counting chamber with double counting grid
- 2 haemocytometer cover glasses with thickness 0.4 mm
- each 1 blood diluting pipette Thoma red and white
- 2 silicone tubings with approx. 16 cm length
- each 1 plastic mouthpiece red and white
- without CE-mark, only for sale and application outside EC

Cat. No.		Depth of chamber	Unit
With dark lines			
▶ 0630010	Neubauer-improved	0.1 mm	1
0630410	Fuchs-Rosenthal	0.2 mm	1
With bright lines			
▶ 0630030	Neubauer-improved	0.1 mm	1
0630430	Fuchs-Rosenthal	0.2 mm	1

Cellcounter

The electronic blood counter is designed for counting blood cells, but is also appropriate for counting any other particles.

- with digital display
- with 6 functional keys, 15 individually nameable counting keys and 4 different counting programmes. One of these programmes is freely configurable and programmable by the user. This enables the operator to program any kind of counting or analysis by himself.
- percentual or real figures can be obtained
- counting range up to max. 1000
- dimensions: 210 x 190 x 25 mm
- supplied with detailed instruction manual
- with CE-mark

Cat. No.	Type	Electric mains	Unit
▶ 7140002	2001	230 V / 50 to 60 cps	1
For connection to PCs, including software and plug			
7140003	2001	PC 230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

▶ This arrow indicates products that are usually available on short notice.

Blood diluting pipettes acc. to Thoma

- for white blood corpuscles (leucocytes, proportion of dilution 1 : 10) or for red blood corpuscles (erythrocytes, proportion of dilution 1 : 100)
- in compliance with DIN ISO 12 750
- white back
- blue graduation
- tolerance: $\pm 3\%$
- divided into 10 parts
- individually packed in poly bags, 10 pieces in a box

Cat. No.	For	Type	Unit
Without CE-mark, only for sale and application outside EC			
▶ 3202000	leucocytes	with funnel top	10
3203000	leucocytes	without funnel top	10
▶ 3205000	erythrocytes	with funnel top	10
3206000	erythrocytes	without funnel top	10
For in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark			
▶ 3264000	leucocytes	with funnel top	10
▶ 3265000	erythrocytes	with funnel top	10

Blood diluting pipettes acc. to Malassez-Potain

- for white blood corpuscles (leucocytes, proportion of dilution 1 : 10) or for red blood corpuscles (erythrocytes, proportion of dilution 1 : 100)
- white back
- blue graduation
- individually packed in poly bags, 10 pieces in a box

Cat. No.	For	Unit
Without CE-mark, only for sale and application outside EC		
3208000	leucocytes	10
3209000	erythrocytes	10



When pipetting, please note the safety regulations. Pipetting by mouth is dangerous. We disclaim any responsibility.





When pipetting, please note the safety regulations. Pipetting by mouth is dangerous. We disclaim any responsibility.



Haemoglobin pipettes acc. to Sahli

Haemoglobin pipettes are used for dosing the blood which is to be examined.

- in compliance with DIN ISO 12 689
- capacity: 20 µl
- white back
- blue graduation
- individually packed in poly bags, 25 pieces in a box

Cat. No.	Type	Multipack	Unit
Without CE-mark, only for sale and application outside EC			
3245035	with funnel top	40 x 25	25
▶ 3246035	without funnel top	40 x 25	25
for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark			
3266035	with funnel top		25

Tubings

- made of transparent silicone
- for blood diluting pipettes acc. to Thoma and Malassez-Potain
- for haemoglobin pipettes acc. to Sahli
- 5.5 mm outside diameter
- 3.5 mm inside diameter
- without CE-mark, only for sale and application outside EC

Cat. No.	Length	Unit
5903000	16 cm	10
5903001	25 cm	10
5903002	40 cm	10

Mouthpieces

- made of polystyrene
- suitable for our tubings for blood diluting pipettes and haemoglobin pipettes
- without CE-mark, only for sale and application outside EC

Cat. No.	Colour	Multipack
5833000	white	100
5833001	red	100

▶ This arrow indicates products that are usually available on short notice.

ENRICO BRUNO srl - TORINO - www.enrico-bruno.it

Haemometers acc. to Sahli

Haemometers are used for the determination of blood's content of haemoglobin. The Marienfeld Superior haemometer according to Sahli is supplied as complete set consisting of:

- polystyrene support with 2 coloured rods and opal glass plate
- comparator tube
- haemoglobin pipette 20 µl acc. to Sahli
- silicone tubing of approx. 16 cm length
- white mouthpiece
- dropping pipette with rubber teat
- stirring rod
- acid vial
- cleaning brush
- directions for use
- without CE-mark, only for sale and application outside EC

Cat. No.	Multipack	Unit
▶ 3243000	60 x 1	1

Comparator tubes

- made of soda lime glass
- with round bottom and beaded rim
- with double coloured scale yellow/red
- without CE-mark, only for sale and application outside EC

Cat. No.	Multipack	Unit
▶ 3244000	100 x 10	10

Dropping pipettes

- made of soda lime glass
- with straight tip
- with beaded rim
- without rubber teat
- handy packaging in a carton

Cat. No.	Length	Diameter	Unit
▶ 4010020	75 mm	6/7 mm	100
▶ 4010070	150 mm	7/8 mm	200

Rubber teats for dropping pipettes

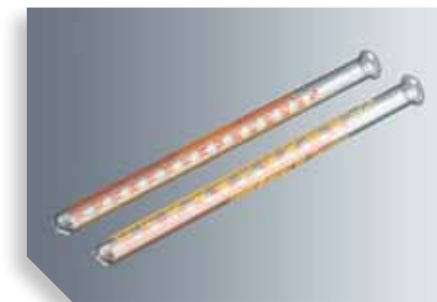
Cat. No.	Suction volume	Colour	Unit
▶ 5902002	approx. 0.8 ml	red	100

▶ This arrow indicates products that are usually available on short notice.



When pipetting, please note the safety regulations. Pipetting by mouth is dangerous. We disclaim any responsibility.

The scales of our comparator tubes are adjusted to our present haemometer's coloured glass rod. The tubes are not to be used for application with haemometers we produced in the past or for those of other manufacturers.





Pasteur pipettes

- made of soda lime glass
- in compliance with DIN ISO 7712
- with evenly rounded and accurately drawn fine tips
- with a distinct constriction at the upper end to retain a cotton plug firmly
- for single use
- 250 pieces in a handy dispenser box
- 4 x 250 pieces in a carton

Cat. No.	Length	Ø Tip mm	Unit
Without cotton plug			
▶ 3233049	150 mm	1.3 to 1.5 ext. / 1.1 to 1.2 int.	1000
▶ 3233050	230 mm	1.3 to 1.5 ext. / 1.1 to 1.2 int.	1000
With inserted cotton plug			
3234049	150 mm	1.3 to 1.5 ext. / 1.1 to 1.2 int.	1000
3234050	230 mm	1.3 to 1.5 ext. / 1.1 to 1.2 int.	1000

Pipetting aids for Pasteur pipettes

- made of natural rubber
- capacity: approx. 2 ml
- olive form
- opening at rolled rim approx. 5 mm diameter

Cat. No.	Unit
▶ 5902000	100

Transfer pipettes

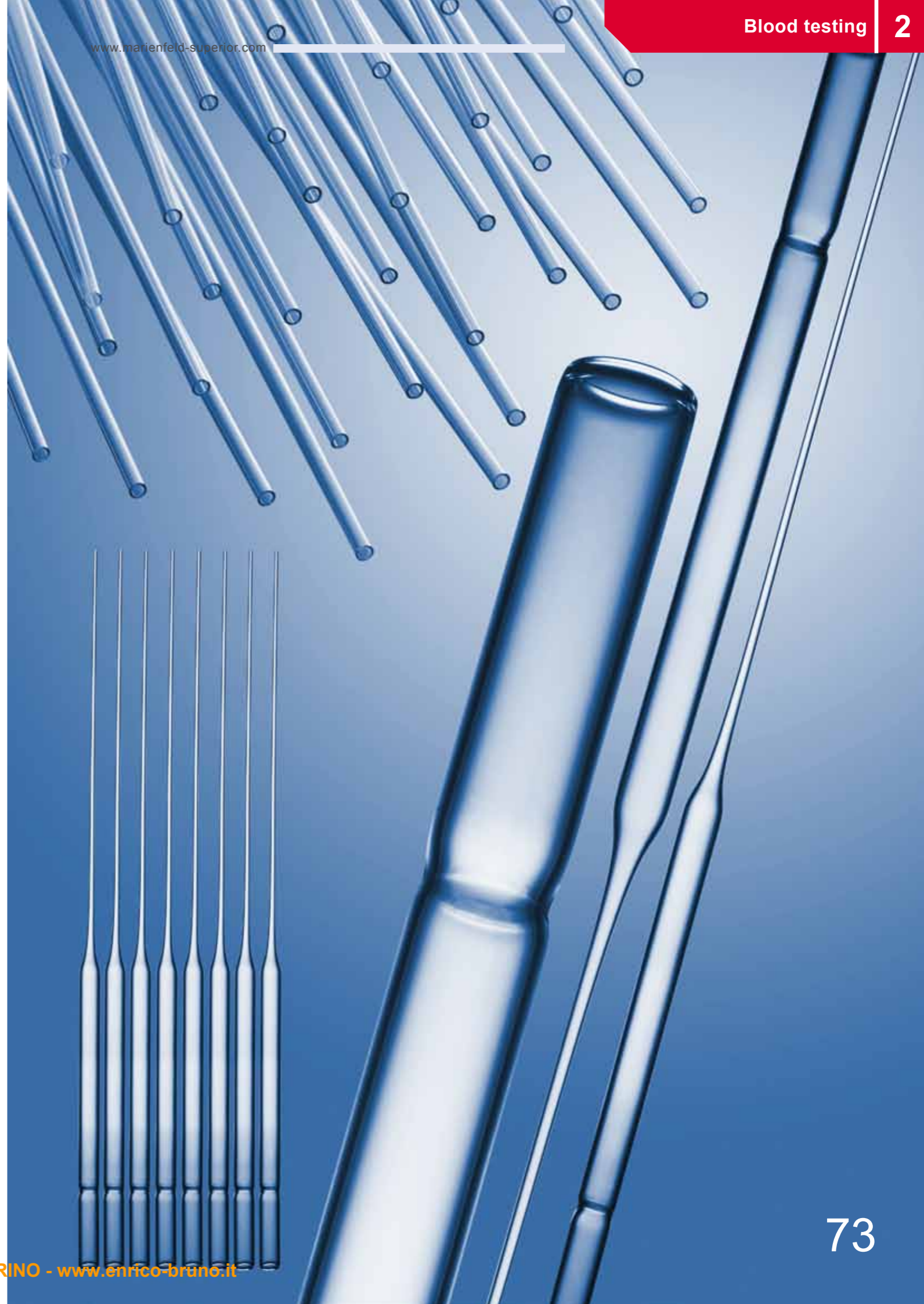
- made of polyethylene (HD-PE)
- BSE-free
- can be used for food
- soft, elastic bulb
- burr-free orifice for neat, clean and precise dispensing
- length: approx. 150 mm
- non-sterile
- for single use

Cat. No.	Capacity		Multipack	Unit
5210800	micro	not graduated	6 x 500	500
▶ 5210801	1 : 0.25 ml	graduated	6 x 500	500
▶ 5210802	3 : 0.50 ml	graduated	6 x 500	500

▶ This arrow indicates products that are usually available on short notice.

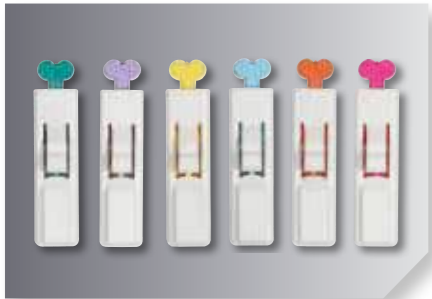
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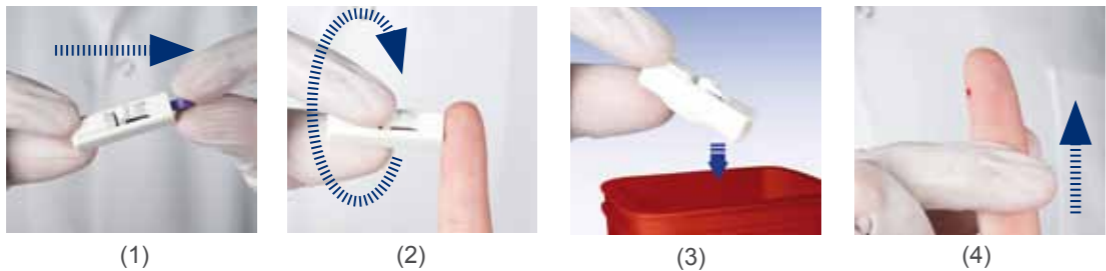


Safety lancets STERILANCE® Lite II

- with gamma-sterilised needle which remains fully secured in its casing, before and after the penetration. This prevents injuries or infections and allows a safe handling.
- the painless penetration is effected at high speed by pushing a button
- different colours identify the gauge size and penetration depth
- for secured single use
- 100 pieces in a box = minimum quantity
- 10 boxes of 100 pieces in a carton = multipack
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability



Cat. No.	Gauge size/ Penetration depth	Colour	Application for	Unit
7300800	18G/1.8 mm blade	green	Baby and neonatal care, heel puncture	100
7300801	28G/1.8 mm needle	purple	Diabetes clinics and hospital wards for blood glucose monitoring	100
7300802	26G/1.8 mm needle	yellow	Diabetes clinics and hospital wards for blood glucose monitoring	100
7300803	26G/2.4 mm needle	blue	Diabetes clinics and hospital wards for blood glucose monitoring, for thicker adult skin	100
7300804	21G/1.8 mm needle	orange	Haemoglobin (blood banks), cholesterol, blood typing, coagulation, blood gas and other diagnostic tests. For paediatrics and most normal adult skin.	100
7300805	21G/2.4 mm needle	pink	Haemoglobin (blood banks), cholesterol, blood typing, coagulation, blood gas and other diagnostic tests, for thicker adult skin	100



- (1) Twist the protective cap and pull it off. The lancet now is loaded automatically. Do not use the lancet if the cap is already pulled off!
- (2) Select fingergrip insertion site slightly off centre to minimise any discomfort and maximise blood flow. Hold the lancet firmly against site and press the release button to activate the device. The needle shoots out and draws back immediately. It is fully covered again after use.
- (3) Dispose of safety lancet in a suitable safety container.
- (4) Gently massage the finger to the direction of the puncture site to obtain required volume of blood.

Blood lancets

- made of stainless steel of high grade quality X6 Cr 17 (in compliance with DIN EN 10088-2), chrome content 16 to 18 %
- corrosion-resistant, free from nickel
- with tip optimized for painless blood taking
- sterile: sterilized by gamma irradiation in compliance with DIN EN 556
- for single use
- individually packed in paper, 5 pieces in a stripe
- 200 pieces in a box
- 5 boxes in a carton, 10 cartons in an outer carton
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Multipack	Unit
7300200	10 x 1000	1000

Capillary tubes for the determination of melting point

These capillary tubes can be used for storage of small amounts of liquids or for the determination of melting point.

- made of glass
- with rectangular cut edges
- for single use
- tolerance length: ± 1 mm
- tolerance diameter: ± 0.05 mm
- 100 resp. 50 pieces (Cat. No. 29 402 02) in a dispenser vial
- 10 vials in a box

Cat. No.	Length	Ø ext.	Ø int.	Unit
Both ends open				
2930201	70 mm	1.20 mm	0.90 mm	1000
2930203	80 mm	0.60 mm	0.42 mm	1000
2930204	80 mm	0.80 mm	0.56 mm	1000
2930205	80 mm	1.00 mm	0.80 mm	1000
2930207	80 mm	1.50 mm	1.20 mm	1000
2930208	100 mm	1.00 mm	0.80 mm	1000
2930210	100 mm	1.55 mm	1.15 mm	1000
One end closed				
2940202	75 mm	2.00 mm	1.50 mm	500
2940205	80 mm	1.00 mm	0.80 mm	1000
2940206	80 mm	1.30 mm	1.00 mm	1000
2940211	80 mm	1.40 mm	1.00 mm	1000
2940207	80 mm	1.50 mm	1.20 mm	1000
2940208	100 mm	1.00 mm	0.80 mm	1000
2940209	100 mm	1.20 mm	0.90 mm	1000
2940210	100 mm	1.55 mm	1.15 mm	1000



For Melting point meters (MPM) please see page 166.



Micro pipettes "end-to-end"

Micro pipettes can dispense more accurately than conventional pipettes. The micro pipettes are used for dispensing very small amounts of liquids.

- made of glass
- in compliance with DIN ISO 7550
- for single use
- length: 29 ± 1 mm
- 100 pieces in a colour coded dispenser vial, 10 vials in a box
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Capacity		Unit
2910109	10 µl	not heparinized	1000
2910110	20 µl	not heparinized	1000
▶ 2911109	10 µl	Sodium-heparinized (80 iu/ml)	1000
▶ 2911110	20 µl	Sodium-heparinized (80 iu/ml)	1000



Micro pipettes with circular mark

- made of glass
- in compliance with DIN ISO 7550
- for single use
- length: approx. 125 mm
- not heparinized
- as from 5 µl with colour coding according to ISO recommendations
- 250 resp. 125 pieces in a round cardboard box, 4 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Circular mark(s) at	Ø ext. (± 0.05)	Unit
▶ 2920107	1 + 2 + 3 + 4 + 5 µl	1.15 mm	1000
▶ 2920109	10 µl	1.25 mm	1000
▶ 2920110	20 µl	1.60 mm	1000
▶ 2920115	50 µl	1.50 mm	1000
▶ 2920116	100 µl	1.70 mm	1000
2920117	200 µl	2.25 mm	500



Micro pipettors

- facilitate the sampling
- very light and conveniently operated
- suitable for micro pipettes with circular mark and other small pipettes up to 1 ml capacity (for example: blood diluting pipettes)
- the integrated ejection device reduces the risk of infection through contaminated pipettes
- autoclavable at 121 °C



Cat. No.	Unit
2960408	1

▶ This arrow indicates products that are usually available on short notice.

Capillary tubes for microhaematocrits

Capillary tubes for microhaematocrits are used for the centrifugation of blood samples. Heparinized capillaries should be used when the samples are not immediately sealed with wax and centrifuged. The heparinized coating delays the clotting of the blood. The heparinization is applied as a thin, homogenous coating on the tube. This enhances the immediate dissolving of the heparin in the blood and prevents agglutination.

- made of high grade quality glass
- in compliance with DIN ISO 12 772
- length: approx. 75 mm ± 0.5 mm
- wall thickness: approx. 0.2 ± 0.025 mm
- sodium-heparinized (80 iu/ml ± 30%) or not heparinized available
- the fire polishing at the colour coded end ensures that centrifuges are not damaged
- for single use
- 100 pieces in a dispenser vial, 10 vials in a box
- 64'000 pieces in a carton (multipack)
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

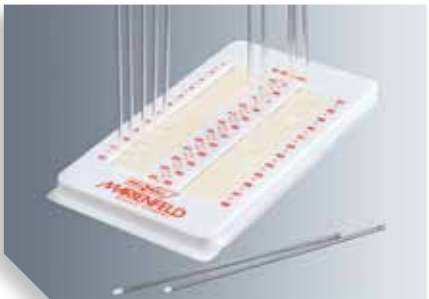
Cat. No.	Ø int.	Ø ext.	Capacity	Unit
Not heparinized				
▶ 2900000	1.1 to 1.2 mm	1.5 to 1.6 mm	75 µl	1000
2900001	0.9 to 1.0 mm	1.3 to 1.4 mm	60 µl	1000
Sodium-heparinized				
▶ 2901000	1.1 to 1.2 mm	1.5 to 1.6 mm	75 µl	1000
2901001	0.9 to 1.0 mm	1.3 to 1.4 mm	60 µl	1000
Sodium-heparinized, with ringmark at 60 mm				
2901002	0.5 to 0.6 mm	1.5 to 1.6 mm	18 µl	1000

Wax plates

Wax plates are used for sealing capillary tubes for microhematocrits.

- 2 deposit areas on a plastic base
- contain modelling clay and additives of food filler material and natural bees wax. We consciously forego adding any chemicals which could affect the plastic material after some time.
- numbered 1 to 48
- individually packed in poly bags, 6 pieces in a box

Cat. No.	Multipack	Unit
▶ 2960409	100 x 6	6



▶ This arrow indicates products that are usually available on short notice.



Blood gas capillary tubes

Blood gas capillary tubes are capillaries for the analysis of blood gas, in particular of oxygen and carbon dioxide.

- made of heavy-walled glass, with fire polished ends
- sodium-heparinized
- tolerance length: ± 1 mm
- tolerance diameter: ± 0.05 mm
- for single use
- 250 pieces in a round cardboard box, 4 boxes in a carton
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	Length	Ø ext.	Capacity min.	Hep. iu/ml	Unit
2951300	75 mm	2.3 mm	130.0 µl	80	1000
2951301	100 mm	2.3 mm	175.0 µl	80	1000
2951302	125 mm	2.3 mm	220.0 µl	80	1000
2951303*	75 mm	1.75 mm	82.5 µl	240	1000
2951304	100 mm	1.75 mm	110.0 µl	127	1000
2951305	125 mm	1.75 mm	137.5 µl	80	1000

* Minimum quantity per order: 10'000 pieces

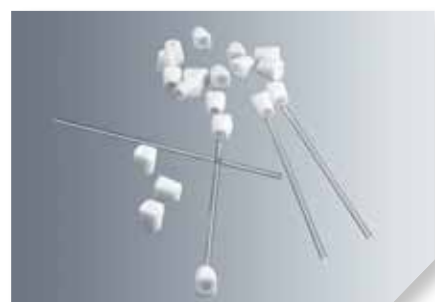


Stirrers for blood gas capillary tubes

For mixing the sample in the capillary tube.

- made of spring steel
- length: approx. 9 ± 1 mm
- 250 pieces in a dispenser vial, 10 vials in a box
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	For Ø tubes	Diameter	Unit
2960412	1.75 mm	0.6 mm	2500
2960413	2.3 mm	1.0 mm	2500



Closure caps for blood gas capillary tubes

- made of white rubber
- for in-vitro diagnostic (IVD) applications according to IVD-directive 98/79/EC, with CE-mark, recommended best before date and batch number for comprehensive information and traceability

Cat. No.	For Ø tubes	Unit
2960414	1.75 mm	2 x 500
2960415	2.3 mm	2 x 500

Blood sedimentation pipettes acc. to Westergren

In case of suspected infectious diseases the erythrocyte sedimentation rate of blood is examined by means of sedimentation pipettes according to Westergren.

- made of AR® clear glass
- length: approx. 300 mm
- with white graduation 0 to 200 subdivided in 1 mm

Cat. No.		Multipack	Unit
Without CE-mark, only for sale and application outside EC			
▶ 3241062	for macro method	55 x 24	24
3242062	for micro method	55 x 24	24
For in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE-mark			
3267062	for macro method	55 x 24	24
3268062	for micro method	55 x 24	24



Stands for blood sedimentation pipettes acc. to Westergren

The stands hold the blood sedimentation pipettes upright during examination of blood samples according to Westergren's method.

- made of stainless steel
- clamp is made of 8 x 8 mm anodised aluminium for enhanced protection
- with tilting device for rapid method
- with mixing tubes and rubber stoppers, without pipettes

Cat. No.	For	Multipack
3238058	3 tests	10
3238060	6 tests	10
▶ 3238061	10 tests	10



Haematocrit tubes acc. to Wintrobe

- made of soda lime glass
- with round bottom
- with straight rim
- with double numbered scale in red / white colour
- graduation: 105 mm subdivided in 1 mm
- without CE-mark, only for sale and application outside EC

Cat. No.	Ø ext.	Ø int.	Multipack	Unit
▶ 3231000	6.5 mm	2.9 mm	120 x 20	20



▶ This arrow indicates products that are usually available on short notice.



All dimensions and capacities of the tubes are approximate.



Culture medium tubes with aluminium screw caps

These tubes are suitable for transporting and growing of cultures.

- ungraduated
- with screw thread cap-alu 16
- please order the aluminium screw caps separately

Cat. No.	Length x Ø ext.	Wall thickness	Capacity	Unit
Soda lime glass of the 3rd hydrolytic class, flat bottom minimum order quantity: 4 units				
3860551	144.5 x 17.75 mm	1.05	24 ml	252
3860700	179.5 x 17.75 mm	1.05	31 ml	252
3861400	112.5 x 16.1 mm	0.95	15 ml	299
Borosilicate glass of the 1st hydrolytic class, flat bottom minimum order quantity: 2 units				
3871053	49.5 x 16.1 mm	0.95	5 ml	480
Soda lime glass of the 3rd hydrolytic class, round bottom minimum order quantity: 4 units				
3704679	160 x 16.1 mm	0.95	22 ml	299

Aluminium Screw caps for culture medium tubes

- with rubber washer
- gold-coloured
- autoclavable at 121° C
- 5'000 pieces in a carton
- please adjust the order quantity of caps to the ordered quantity of culture medium tubes

Cat. No.	Thread
6601029	cap-alu 16

Flat bottom tubes

- made of soda lime glass
- with straight rim
- ungraduated

Cat. No.	Height x Ø ext.	Wall thickness	Unit
3806001	35 x 12 mm	0.8 - 1.0 mm	144
3806153	62 x 24 mm	1.0 mm	160

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Test tubes with round bottom, ungraduated

Cat. No.	Length x Ø ext.	Wall thickness	Capacity	Unit
Soda lime glass, with straight rim				
▶ 3700318	75 x 10 mm	0.6 mm	4 ml	1000
▶ 3700323	75 x 12 mm	0.6 mm	6 ml	1000
▶ 3700334	100 x 12 mm	0.6 mm	9 ml	1000
▶ 3700544	100 x 16 mm	0.8 mm	14 ml	1240
▶ 3700552	130 x 16 mm	0.8 mm	20 ml	100
▶ 3700562	150 x 16 mm	0.8 mm	23 ml	100
▶ 3700579	160 x 16 mm	0.8 mm	25 ml	100
3700784	180 x 18 mm	1.0 mm	35 ml	100
3700896	200 x 25 mm	1.2 mm	75 ml	126
Soda lime glass, with beaded rim				
3702323	75 x 12 mm	0.6 mm	6 ml	100
3702334	100 x 12 mm	0.6 mm	9 ml	1000
3702352	130 x 16 mm	0.6 mm	20 ml	1000
3702379	160 x 16 mm	0.6 mm	25 ml	1000
3702784	180 x 18 mm	0.8 mm	35 ml	100
Borosilicate glass 5.1, with straight rim relatively inured to rapid temperature changes and local heating				
▶ 3710323	75 x 12 mm	0.6 mm	6 ml	1000
▶ 3710337	100 x 13 mm	0.6 mm	10 ml	1000
▶ 3710544	100 x 16 mm	0.7 mm	14 ml	1000
▶ 3710562	150 x 16 mm	0.7 mm	23 ml	1000
3710775	150 x 25 mm	1.0 mm	55 ml	100

Test tubes Durham

Durham tubes are mainly used in microbiology to detect gas produced by micro organisms. These special tubes are placed upside down in bigger test tubes.

- wall thickness 0.7 mm
- with straight rim
- with round bottom
- ungraduated

Cat. No.	Length x Ø ext.	Material	Capacity	Unit
▶ 3700401	25 x 7 mm	borosilicate glass Fiolax	0.5 ml	10 x 100
▶ 3700400	35 x 6 mm	soda lime glass	0.5 ml	250
▶ 3700406	50 x 6 mm	soda lime glass	0.75 ml	350

▶ This arrow indicates products that are usually available on short notice.



All dimensions and capacities of the test tubes are approximate.

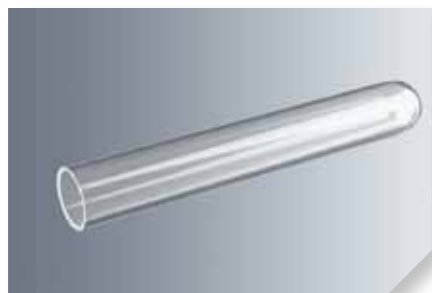


Test tubes with screw caps (culture tubes)

Test tubes with screw caps are suitable for transporting and growing of cultures.

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with white marking area
- with screw thread and black screw cap including Butyl/PTFE sealing insert
- sterilisable up to 110 °C
- wall thickness: approx. 1.0 to 1.1 mm
- ungraduated

Cat. No.	Length x Ø ext.	Thread	Capacity	Unit
▶ 3737737	100 x 13 mm	13-415	8 ml	100
▶ 3737852	125 x 16 mm	15-415	16 ml	100
▶ 3737862	150 x 16 mm	15-415	20 ml	100



All dimensions and capacities of the test tubes are approximate.

Test and centrifuge tubes

- made of high quality polystyrene
- high optical transparency
- optimal visibility of content
- perfect rotation
- suitable for centrifugation up to 2000 x g
- suitable for temperature range from - 10 °C to + 60 °C
- for single use
- with round bottom
- straight rim
- ungraduated
- 1000 pieces in a poly bag

Cat. No.	Length x Ø ext.	Capacity	Unit
▶ 5200102	75 x 12 mm	5 ml	4000
5200104	100 x 16 mm	12 ml	2000

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Test tube caps Labocap

These caps for test tubes are used in microbiological, biotechnological and bacteriological laboratories. They are mainly used for protection against contamination and guarantee the required sterilizable, but not hermetic seal. The built-in springs made of chromium steel make the caps cling firmly on the tubes and ensure the required airflow.

- made of high grade aluminium
- with coloured anodized coating
- washable with neutral cleansing material (max. 140 °C)
- sterilizable
- reusable
- stainless
- heat-resistant
- high durability
- without handle

Cat. No.	For tubes Ø	Colour	Unit
▶ 6602005	12/13 mm	silver	100
▶ 6602008	15/16 mm	silver	100
▶ 6602011	17/18 mm	silver	100
6602105	12/13 mm	blue	100
6602108	15/16 mm	blue	100
6602111	17/18 mm	bue	100
6602205	12/13 mm	red	100
6602208	15/16 mm	red	100
6602211	17/18 mm	red	100

These caps are also available in green, yellow, violet and black. Minimum quantity is 1000 pieces per type and order. Please send us your enquiry.

Test tube shakers

- makes the mixing of liquids in test tubes easy
- upper part of case and top plate made of stainless steel
- lower part of case made of acid-proof lacquered sheet steel
- with opto-electronic regulated motor
- speed range infinitely adjustable from 100 to 2800 r.p.m.
- with soft-start function for smooth starting
- for orbital shaking motions
- for tubes up to 30 mm diameter
- dimensions: approx. 156 x 150 x 110 mm
- with CE-mark

Cat. No.	Electric mains	Unit
▶ 7204007	230 V / 50 to 60 cp	1

The instruction manual can be downloaded from our website.





Stands for test tubes

- made of white polypropylene
- break-resistant
- suitable for water baths
- autoclavable
- stackable
- demountable and hence space-savily storable
- dimensions: approx. 246 x 104 x 64 mm

Cat. No.	Positions	For tubes Ø	Multipack
▶ 5610120	90	13 mm	50
▶ 5610123	60	16 mm	50
▶ 5610126	40	20 mm	50



- made of unlacquered wood
- low shape
- with 2 levels
- offers space for 12 tubes with diameter up to 18 mm

Cat. No.	Dimensions
▶ 6560090	without draining rods 200 x 110 x 65mm

Test tube holders

- made of wood
- with galvanized wire spring

Cat. No.		Multipack	Unit
▶ 6569000	for tubes up to 20 mm Ø	24 x 12	12
▶ 6569010	for tubes up to 40 mm Ø	1 x 300	12



Test tube brushes

- bristles with tufted end made of wool
- galvanised wire handle with loop to hang up

Cat. No.	Total length	Head: Length x Ø	Unit
▶ 6228006	280 mm	70 x 15 mm	10
▶ 6228009	280 mm	80 x 25 mm	10



▶ This arrow indicates products that are usually available on short notice.

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Centrifuge tubes

- long conical type
- dimensions: approx. 112/113 x 16/17 mm
- capacity: approx. 15 ml
- 100 pieces in a box

Cat. No.		Unit
Soda lime glass, with beaded rim		
▶ 3910002	ungraduated	100
3910012	white graduated 1 to 10 : 0.1 ml, with mark at 15 ml	100
▶ 3910022	white graduated 1 to 15 : 0.1 ml	100
Soda lime glass, straight rim		
3900002	ungraduated	100
3900022	white graduated 1 to 15 : 0.1 ml	100



Centrifuge tubes heavy walled

- made of borosilicate glass 3.3
- straight rim
- ungraduated

Cat. No.	Length x Ø	Capacity	Wall (± 0.2)	Unit
Short conical, angle 30°				
3906001	98 x 16/17 mm	10 ml	1.2 mm	100
With round bottom				
3933011	100 x 16 mm	12 ml	1.2 mm	100
3933041	100 x 34 mm	50 ml	2.8 mm	10
3933081	115 x 40 mm	80 ml	3.2 mm	10



Centrifuge tubes for determination of solubility acc. to ADPI

- made of borosilicate glass 3.3
- conical type
- blue graduated up to 20 ml, with mark at 50 ml

Cat. No.	Length x Ø	Unit
Straight rim		
3939521	195 x 24 mm	10
With beaded rim		
3949501	100 x 34 mm	10
3949511	135 x 30 mm	10



▶ This arrow indicates products that are usually available on short notice.



Urine cups

- made of polypropylene
- pressure-resistant and break-resistant
- with marking area and scale
- non-sterile
- 1000 pieces in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE - mark

Cat. No.	Capacity	Division	Unit
5221401	150 ml	125 : 25 ml / 4:1 oz	1000
5221402	200 ml	175 : 25 ml / 6:1 oz	1000



Lids for urine cups

- made of polyethylene (PE-LD)
- with frosted marking area
- easy to close
- leak-proof
- non-sterile
- 500 pieces in a poly bag, 2 bags in a box

Cat. No.		Unit
5211403	blue, without pouring nozzle	1000
5211404	red, with pouring nozzle	1000

Urinometers

- for specific gravity
- with paper scale 1000 to 1060
- calibrated at 20 °C
- without CE-mark, only for sale and application outside EC

Cat. No.	Length	Type	Unit
Acc. to Vogel			
▶ 3300000	90 mm	without thermometer	1
▶ 3300001	160 mm	without thermometer	1



Urinals

- made of transparent polypropylene
- autoclavable at 121 °C
- with raised scale with subdivision 50 ml
- with attached lid made of polyethylene (PE-LD)

Cat. No.	Capacity	Unit
5416109	1000 ml	6



Stool containers

- made of polypropylene
- approved for mailing of stool samples in compliance with DIN EN 829
- with brown overlapping screw cap und spoon
- reliable and safe sealing
- non-sterile
- 1000 resp. 500 pieces in a poly bag and additionally in a carton
- for in-vitro diagnostic (IVD) applications according to IVD directive 98/79/EC, with CE - mark

Cat. No.	Capacity	Dimensions	Unit
5221601	15 ml	76 x 20 mm	1000
5221602	13 ml	100 x 16 mm	1000
5221603	30 ml	107 x 25 mm	500



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Do not mouth pipette! For recommended pipetting aids please see page 93.

Volumetric pipettes, glass

Volumetric pipettes are used to dose liquids. Only one circular mark showing the defined volume is printed on volumetric pipettes. They are calibrated "Ex" (to deliver): The imprinted volume refers to the delivered amount of liquid.

- **Class AS**
„A“ stands for highest accuracy, „S“ for fast delivery (waiting time reduced to 5 seconds). The tolerances of class AS are half of the tolerances of class B according to DIN ISO standards.
- **Class AS conformity certified**
Conformity means compliance with the German Calibration Regulations (DIN 12 600) and the relevant standards. By imprinting the conformity symbol "H" we confirm that the measuring device complies with these conditions. A batch certificate of conformity is supplied together with every box. On request individual certificates of conformity are available.
- **Graduation:** The amber stain graduation penetrates into the glass surface and is more resistant than a blue fused-on enamel graduation.
- made of soda lime glass
- acc. to DIN EN ISO 648 (except 3 ml, 4 ml and 15 ml)
- especially formed tips and ends, bevelled and fire-polished
- calibrated tips provide short and practice-oriented waiting time
- with colour coding for easy identification
- with indication of tolerance
- with 1 circular mark

Cat. No.	Capacity	Tolerance	Unit
Class AS			
2002000	0.5 ml straight form	± 0.005 ml	50
▶ 2002010	1 ml straight form	± 0.008 ml	50
▶ 2002020	2 ml	± 0.010 ml	40
2002030	3 ml	± 0.015 ml	50
2002040	4 ml	± 0.015 ml	30
▶ 2002050	5 ml	± 0.015 ml	30
▶ 2002060	10 ml	± 0.020 ml	10
2002070	15 ml	± 0.030 ml	25
▶ 2002080	20 ml	± 0.030 ml	25
▶ 2002090	25 ml	± 0.030 ml	20
▶ 2002100	50 ml	± 0.050 ml	10
2002110	100 ml	± 0.080 ml	6
Class AS, conformity certified, with batch certificate			
▶ 2003010	1 ml straight form	± 0.008 ml	50
▶ 2003020	2 ml	± 0.010 ml	40
2003030	3 ml	± 0.015 ml	50
2003040	4 ml	± 0.015 ml	30
▶ 2003050	5 ml	± 0.015 ml	30
▶ 2003060	10 ml	± 0.020 ml	10
2003070	15 ml	± 0.030 ml	25
▶ 2003080	20 ml	± 0.030 ml	25
▶ 2003090	25 ml	± 0.030 ml	20
▶ 2003100	50 ml	± 0.050 ml	10
2003110	100 ml	± 0.080 ml	6

▶ This arrow indicates products that are usually available on short notice.

Graduated pipettes, glass

Pipettes with a scale are used to dispense liquids. They are calibrated „Ex“ (to deliver): The imprinted volume refers to the delivered amount of liquid. Graduated pipettes for complete delivery are called serological pipettes.

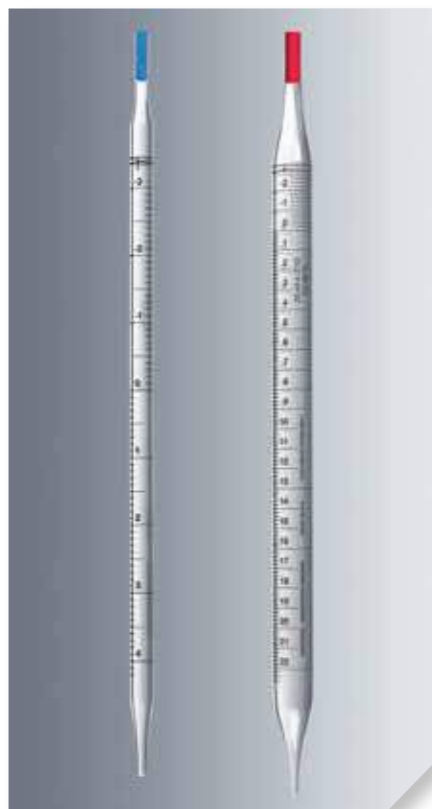
- **Class AS**
„A“ stands for highest accuracy, „S“ for fast delivery (waiting time reduced to 5 seconds). The tolerances of class AS are half of the tolerances of class B according to DIN ISO standards.
- **Class AS conformity certified**
Conformity means compliance with the German Calibration Regulations and the relevant standards. By imprinting the conformity symbol „H“ we confirm that the measuring device complies with these conditions. A batch certificate of conformity is supplied in every packing unit. On request, individual certificates of conformity are available.
- **Graduation:** The amber stain graduation penetrates into the glass surface and is more resistant than a blue fused-on enamel graduation.
- made of soda lime glass
- acc. to DIN EN ISO 835 (except capacity 0.1 ml)
- low risk of breakage
- especially formed tips and ends, bevelled and fire-polished
- calibrated tips provide short and practice-oriented waiting time
- with colour coding for easy identification
- with indication of tolerance
- as from 5 ml capacity with constricted upper end to retain cotton plug. A cotton plug prevents an overflow of the pipette. But it can also extend the waiting time and thereby influence the accuracy of the measuring.
- circular graduation at main points, well legible numbers and graduations
- for complete delivery, zero at top

Cat. No.	Capacity	Tolerance	Multipack	Unit
Class AS				
1902000	0,1 : 0,001 ml	± 0,006 ml	39 x 24	24
1902010	0,2 : 0,001 ml	± 0,006 ml	39 x 24	24
1902030	0,5 : 0,01 ml	± 0,006 ml	39 x 24	24
▶ 1902040	1 : 0,01 ml	± 0,007 ml	39 x 24	24
▶ 1902070	2 : 0,02 ml	± 0,010 ml	39 x 24	24
1902080	2 : 0,1 ml	± 0,010 ml	39 x 24	24
▶ 1902100	5 : 0,1 ml	± 0,030 ml	55 x 12	12
▶ 1902110	10 : 0,1 ml	± 0,050 ml	55 x 12	12
▶ 1902120	20 : 0,1 ml	± 0,10 ml	10 x 12	12
▶ 1902130	25 : 0,1 ml	± 0,10 ml	10 x 10	10
1902140	50 : 0,2 ml	± 0,20 ml	10 x 5	5
Class AS, conformity certified, with batch certificate				
▶ 1903040	1 : 0,01 ml	± 0,007 ml	39 x 24	24
▶ 1903070	2 : 0,02 ml	± 0,010 ml	39 x 24	24
▶ 1903100	5 : 0,1 ml	± 0,030 ml	55 x 12	12
▶ 1903110	10 : 0,1 ml	± 0,050 ml	55 x 12	12
1903120	20 : 0,1 ml	± 0,10 ml	10 x 12	12
1903130	25 : 0,1 ml	± 0,10 ml	10 x 10	10

▶ This arrow indicates products that are usually available on short notice.



Do not mouth pipette! For recommended pipetting aids please see page 93.



Graduated pipettes for single use

- made of clear polystyrene
- break-resistant
- with seamless formed pipette tip to avoid liquid residues
- serologic
- calibrated "Ex" (to deliver)
- black graduation
- with extra-thin graduation for improved accuracy
- with hydrophobic and coloured cotton plug for rapid identification and perfectly controllable drain
- sterile, SAL10(-6)
- non pyrogenic
- non cytotoxic
- non haemolytic
- individually packed in paper and plastic peel-packs
- barcoded boxes and bags labelled with batch numbers provide traceability

Cat. No.	Capacity	Tolerance	Colour of plug	Multipack	Unit
5202801	1 : 0.01 ml	± 2%	yellow	4 x 500	500
5202802	2 : 0.02 ml	± 2%	green	4 x 500	500
5202803	5 : 0.10 ml	± 2%	blue	4 x 250	250
5202804	10 : 0.1 ml	± 2%	orange	4 x 200	200
5202805	25 : 0.2 ml	± 2%	red	4 x 100	100
5202806	50 : 0.5 ml	± 2%	violet	4 x 50	50

Pipette racks

- made of polypropylene
- rotary rack with solid base for safe standing
- rotary base unit protects the pipettes' tips
- 94 openings with different diameters for graduated pipettes and volumetric pipettes of all sizes
- supplied flat-packed, assembly instruction included

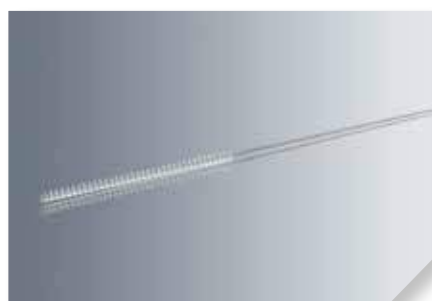
Cat. No.	Diameter	Height	Unit
5610100	230 mm	470 mm	2



Brushes for pipettes

- nylon bristles on zinc-coated wire
- with loop to hang up

Cat. No.	Total length	Head: length x Ø	Unit
6205024	500 mm	100 x 5 mm	10



Pipette fillers

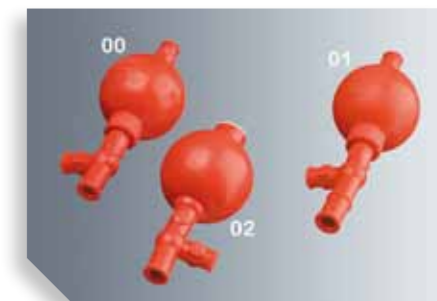
- made of red rubber (natural caoutchouc)
- suitable for all graduated and volumetric pipettes
- control of the functions by squeezing the appropriate valves between thumb and forefinger
- individually packed in foil with short instruction for use
- 100 pieces in a carton (multipack)

Cat. No.			Unit
▶ 5900000	Standard	for pipettes up to 20 ml capacity and 5 to 8 mm Ø, with 3 valves	1
▶ 5900001	Universal	for pipettes up to 100 ml capacity and 5 to 9 mm Ø, with 3 valves	1
5900002	Flip™	for pipettes up to 100 ml capacity and 5 to 8 mm Ø, with 2 valves, with detachable automatic valve for easy inside cleaning	1

Rubber bulbs

- for graduated and volumetric pipettes

Cat. No.	Capacity	Colour	Unit
5900003	1 ml	green	10
▶ 5900004	2 ml	grey	10
5900005	5 ml	yellow	10
5900007	15 ml	red	10



Pipetting aids

- made of plastic
- with hand wheel and drain valve lever (0.2 ml without drain valve lever). By turning the hand wheel the issue quantity is easy to dose.
- suitable for one-handed operation
- different colours for easy identification of the maximum volume

Cat. No.	Capacity	Colour	Multipack	Unit
5841000	0.2 ml	yellow	10	1
▶ 5841001	2 ml	blue	50	1
▶ 5841002	10 ml	green	50	1
▶ 5841003	25 ml	red	25	1



Macro-pipetting aids

The convenient arrangement of functions and the little weight (only 125 g) facilitate your work when you have to do serial pipetting.

- suitable for graduated and volumetric pipettes from 0.1 to 200 ml capacity
- autoclavable at 121 °C (2 bar) acc. to DIN EN 285
- with hydrophobic membrane filter for protection against entering liquidity
- a spare membranefilter 3 µm is included in the delivery

Cat. No.	Colour	Unit
▶ 5827500	grey	1

▶ This arrow indicates products that are usually available on short notice.





Graduated cylinders, glass

Classification:

- **Class B** (shortline graduation)
- **Class A** (circular graduation at main points)
The tolerances are half of the tolerances of class B according to DIN ISO standards.
- **Class A conformity certified** (circular graduation at main points):
Conformity means compliance with the German Calibration Regulations and the relevant standards. By imprinting the conformity symbol "H" we confirm that the measuring device complies with these conditions.
A batch certificate of conformity is supplied together with every packing unit.
On request, individual certificates of conformity are available.

Graduation:

- the blue graduation is fused on the glass and resistant against most acid and alkaline solutions
- the amber stain graduation penetrates into the glass surface and is, therefore, more resistant than the blue, fused-on enamel graduation

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 4788
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- calibrated "In" (to contain)
- well legible numbers and graduations
- with spout
- with hexagonal base



Cat. No.	Capacity	Tolerance	Height	Unit
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Tall form, class B
amber stain graduation

▶ 2103000	5 : 0.1 ml	± 0.10 ml	115 mm	10
▶ 2103030	10 : 0.2 ml	± 0.20 ml	140 mm	10
▶ 2103040	25 : 0.5 ml	± 0.50 ml	170 mm	10
▶ 2103060	50 : 1 ml	± 1.0 ml	200 mm	10
▶ 2103080	100 : 1 ml	± 1.0 ml	260 mm	10
▶ 2103110	250 : 2 ml	± 2.0 ml	335 mm	10
▶ 2103140	500 : 5 ml	± 5.0 ml	390 mm	10
▶ 2103160	1000 : 10 ml	± 10.0 ml	470 mm	10
2103180	2000 : 20 ml	± 20.0 ml	570 mm	10

Low form, class B
blue graduation

2126030	10 : 1 ml	± 0.5 ml	100 mm	10
2126050	25 : 1 ml	± 0.5 ml	125 mm	10
2126070	50 : 2 ml	± 1.0 ml	150 mm	10
2126090	100 : 2 ml	± 1.0 ml	170 mm	10
2126120	250 : 5 ml	± 5.0 ml	220 mm	10
2126150	500 : 10 ml	± 10.0 ml	255 mm	10
2126170	1000 : 20 ml	± 20.0 ml	295 mm	5

▶ This arrow indicates products that are usually available on short notice.

Graduated cylinders, glass

Cat. No.	Capacity	Tolerance	Height	Unit
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Tall form, class A
blue graduation

▶ 2106021	10 : 0.2 ml	± 0.10 ml	140 mm	10
▶ 2106041	25 : 0.5 ml	± 0.25 ml	170 mm	10
▶ 2106061	50 : 1 ml	± 0.50 ml	200 mm	10
▶ 2106081	100 : 1 ml	± 0.50 ml	260 mm	10
▶ 2106111	250 : 2 ml	± 1.0 ml	335 mm	10
▶ 2106141	500 : 5 ml	± 2.5 ml	390 mm	10
▶ 2106161	1000 : 10 ml	± 5.0 ml	470 mm	10
2106181	2000 : 20 ml	± 10.0 ml	570 mm	10

Tall form, class A
conformity certified, with batch certificate
blue graduation

2106022	10 : 0.2 ml	± 0.10 ml	140 mm	10
2106042	25 : 0.5 ml	± 0.25 ml	170 mm	10
2106062	50 : 1 ml	± 0.50 ml	200 mm	10
2106082	100 : 1 ml	± 0.50 ml	260 mm	10
2106112	250 : 2 ml	± 1.0 ml	335 mm	10
2106142	500 : 5 ml	± 2.5 ml	390 mm	10
▶ 2106162	1000 : 10 ml	± 5.0 ml	470 mm	10
2106182	2000 : 20 ml	± 10.0 ml	570 mm	10



Graduated cylinders, plastic

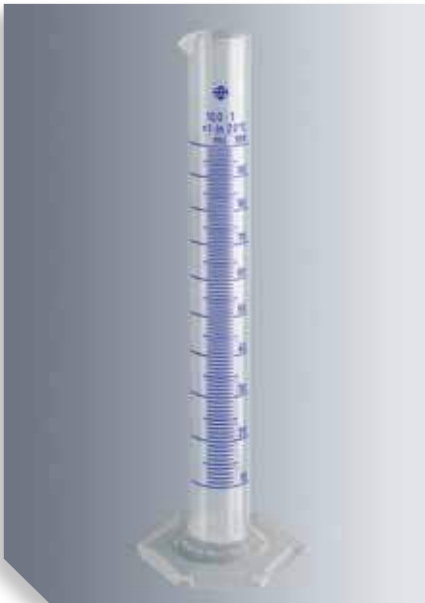


- made of transparent polypropylene
- class B in compliance with DIN 12 681 / ISO 6706
- break-resistant
- calibrated "In" (to contain)
- with ring-moulded graduation overprinted in blue and ring mark at the main points
- tall form
- with spout and hexagonal base
- autoclavable at 121 °C
- maximum operating temperature: 125 °C

Cat. No.	Capacity	Ø	Height	Unit
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5500104	10 : 0,2 ml	16 mm	140 mm	12
5500105	25 : 0,5 ml	21 mm	169 mm	12
5500106	50 : 1 ml	28 mm	199 mm	12
5500107	100 : 1 ml	34 mm	260 mm	12
5500109	250 : 2 ml	47 mm	315 mm	6
5500111	500 : 5 ml	61 mm	350 mm	6
5500113	1000 : 10 ml	76 mm	415 mm	6
5500114	2000 : 20 ml	97 mm	482 mm	3

▶ This arrow indicates products that are usually available on short notice.





Graduated cylinders with plastic base

- made of soda lime glass
- in compliance with DIN EN ISO 4788
- calibrated "In" (to contain)
- autoclavable (without plastic base)
- well legible numbers and graduations
- with spout
- with hexagonal base made of white plastic (PE)

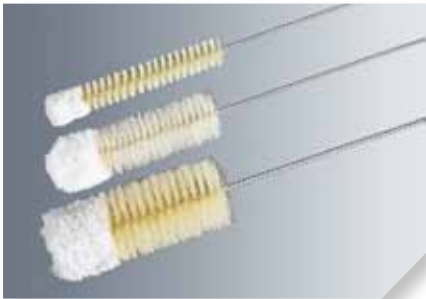
Cat. No.	Capacity	Tolerance	Unit
Tall form, class B amber stain graduation			
2180030	10 : 0.2 ml	± 0.20 ml	10
▶ 2180040	25 : 0.5 ml	± 0.50 ml	10
▶ 2180060	50 : 1 ml	± 1.0 ml	10
2180080	100 : 1 ml	± 1.0 ml	10
2180110	250 : 2 ml	± 2.0 ml	10
2180140	500 : 5 ml	± 5.0 ml	10
2180160	1000 : 10 ml	± 10.0 ml	10



Protective collars for graduated cylinders

- made of polyethylene (PE)
- different colours for each capacity of cylinder
- minimum order quantity: 10 pieces each
- multipack: 100 pieces in a poly bag

Cat. No.	For graduated cylinders	Colour
5815100	10 ml	blue
5815101	25 ml	green
5815102	50 ml	red
5815103	100 ml	orange
5815104	250 ml	yellow
5815105	500 ml	light blue
5815106	1000 ml	violet



Brushes for cylinders

- bristles with tufted end made of wool
- galvanised wire handle with loop to hang up

Cat. No.	Total length	Head: length x Ø	Unit
6205026	520 mm	100 x 20 mm	10
6205027	520 mm	100 x 40 mm	10
6205028	520 mm	100 x 60 mm	10

▶ This arrow indicates products that are usually available on short notice.

Mixing cylinders

Mixing cylinders with stoppers are useful when liquids have to be shaken or to impede evaporation of liquids.

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 4788
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- calibrated "In" (to contain)
- well legible numbers and graduations
- with hexagonal base
- with standard ground joint and poly stopper (PE)

Cat. No.	Capacity	Tolerance	Ground joint	Unit
Tall form, class B blue graduation (shortline)				
2226010	10 : 0.2 ml	± 0.20 ml	NS 10/19	10
2226020	25 : 0.5 ml	± 0.50 ml	NS 14/23	10
2226030	50 : 1 ml	± 1.0 ml	NS 19/26	10
2226040	100 : 1 ml	± 1.0 ml	NS 24/29	10
2226050	250 : 2 ml	± 2.0 ml	NS 29/32	10
2226060	500 : 5 ml	± 5.0 ml	NS 34/35	10
2226070	1000 : 10 ml	± 10.0 ml	NS 45/40	10



Nessler cylinders

Nessler cylinders are used for comparison of colour and turbidity between solutions.

- made of soda lime glass
- calibrated "In" (to contain)
- with white circular mark
- with spout
- minimum order quantity: 10 pieces each type

Cat. No.	Mark at	Height (Tol. ± 2)	Ø ext. (Tol. ± 1)
Low form			
▶ 2800011	50 ml	175 mm	26 mm
▶ 2800012	100 ml	200 mm	32 mm
Tall form			
2800014	50 ml	265 mm	21 mm
2800015	100 ml	320 mm	26 mm



▶ This arrow indicates products that are usually available on short notice.



Volumetric flasks with ground joint, clear glass

- made of borosilicate glass 3.3 (amber glass: dyed brown)
- in compliance with DIN EN ISO 1042
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- calibrated "In" (to contain)
- with 1 circular mark
- printed with fused-on enamel colour resistant against most acid and alkaline solutions
- supplied with NS poly stopper
- glass stoppers to be ordered separately

Cat. No.	Capacity	Ground joint	Tolerance	Unit
Class A blue graduation				
▶ 2332161	5 ml	NS 7/16	± 0.025 ml	10
▶ 2332171	5 ml	NS 10/19	± 0.040 ml	10
2332181	10 ml	NS 7/16	± 0.025 ml	10
▶ 2332191	10 ml	NS 10/19	± 0.040 ml	10
▶ 2332201	20 ml	NS 10/19	± 0.040 ml	10
▶ 2332211	25 ml	NS 10/19	± 0.040 ml	10
▶ 2332221	50 ml	NS 12/21	± 0.060 ml	10
2332231	50 ml	NS 14/23	± 0.100 ml	10
▶ 2332241	100 ml	NS 12/21	± 0.100 ml	10
2332251	100 ml	NS 14/23	± 0.100 ml	10
▶ 2332261	200 ml	NS 14/23	± 0.150 ml	10
▶ 2332271	250 ml	NS 14/23	± 0.150 ml	10
▶ 2332281	500 ml	NS 19/26	± 0.250 ml	10
▶ 2332291	1000 ml	NS 24/29	± 0.400 ml	10
▶ 2332301	2000 ml	NS 29/32	± 0.600 ml	5
2332311	5000 ml	NS 34/35	± 1.200 ml	1
Class A conformity certified, with batch certificate blue graduation				
2332162	5 ml	NS 7/16	± 0.040 ml	10
2332182	10 ml	NS 7/16	± 0.040 ml	10
2332202	20 ml	NS 10/19	± 0.040 ml	10
2332212	25 ml	NS 10/19	± 0.040 ml	10
▶ 2332222	50 ml	NS 12/21	± 0.060 ml	10
▶ 2332242	100 ml	NS 12/21	± 0.100 ml	10
2332262	200 ml	NS 14/23	± 0.150 ml	10
2332272	250 ml	NS 14/23	± 0.150 ml	10
2332282	500 ml	NS 19/26	± 0.250 ml	10
2332292	1000 ml	NS 24/29	± 0.400 ml	10
2332302	2000 ml	NS 29/32	± 0.600 ml	5
2332312	5000 ml	NS 34/35	± 1.200 ml	1

Conformity means compliance with the German Calibration Regulations and the relevant standards. By imprinting the conformity symbol "H" we confirm that the measuring device complies with these conditions.



Volumetric flasks with ground joint, amber glass

Cat. No.	Capacity	Ground joint	Tolerance	Unit
Class A white graduation				
2333161	5 ml	NS 7/16	± 0.025 ml	10
2333171	5 ml	NS 10/19	± 0.040 ml	10
2333181	10 ml	NS 7/16	± 0.025 ml	10
2333191	10 ml	NS 10/19	± 0.040 ml	10
2333201	20 ml	NS 10/19	± 0.040 ml	10
2333211	25 ml	NS 10/19	± 0.040 ml	10
2333221	50 ml	NS 12/21	± 0.060 ml	10
2333231	50 ml	NS 14/23	± 0.100 ml	10
2333241	100 ml	NS 12/21	± 0.100 ml	10
2333251	100 ml	NS 14/23	± 0.100 ml	10
2333261	200 ml	NS 14/23	± 0.150 ml	10
2333271	250 ml	NS 14/23	± 0.150 ml	10
2333281	500 ml	NS 19/26	± 0.250 ml	10
2333291	1000 ml	NS 24/29	± 0.400 ml	10
2333301	2000 ml	NS 29/32	± 0.600 ml	5
2333311	5000 ml	NS 34/35	± 1.200 ml	1
Class A conformity certified, with batch certificate white graduation				
2333162	5 ml	NS 7/16	± 0.025 ml	10
2333182	10 ml	NS 7/16	± 0.025 ml	10
2333202	20 ml	NS 10/19	± 0.040 ml	10
2333212	25 ml	NS 10/19	± 0.040 ml	10
2333222	50 ml	NS 12/21	± 0.060 ml	10
2333242	100 ml	NS 12/21	± 0.100 ml	10
2333262	200 ml	NS 14/23	± 0.150 ml	10
2333272	250 ml	NS 14/23	± 0.150 ml	10
2333282	500 ml	NS 19/26	± 0.250 ml	10
2333292	1000 ml	NS 24/29	± 0.400 ml	10
2333302	2000 ml	NS 29/32	± 0.600 ml	5
2333312	5000 ml	NS 34/35	± 1.200 ml	1



Conformity means compliance with the German Calibration Regulations and the relevant standards. By imprinting the conformity symbol „H“ we confirm that the measuring device complies with these conditions.





Volumetric flasks, plastic



- made of transparent polypropylene
- tolerances correspond to class B acc. to DIN EN ISO 1042
- calibrated "In" (to contain)
- with circular mark individually calibrated
- with screw cap made of polypropylene (PP)
- autoclavable at 121 °C
- maximum operating temperature: 125 °C

Cat. No.	Capacity	Height	Thread	Unit
5500604	10 ml	100 mm	GL 18	6
5500605	25 ml	115 mm	GL 18	6
5500606	50 ml	150 mm	GL 18	6
5500607	100 ml	180 mm	GL 18	6
5500609	250 ml	235 mm	GL 25	5
5500611	500 ml	270 mm	GL 25	4
5500613	1000 ml	310 mm	GL 32	3

Volumetric flasks for sugar analysis

- made of borosilicate glass 3.3 (clear glass)
- for analysis of sugar juices
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- class A
- blue graduation
- with 2 circular marks
- with beaded rim

Cat. No.	With 2 marks at	Tolerance	Unit
2322121	50 + 55 ml	± 0.06 ml	10
2322131	100 + 110 ml	± 0.10 ml	10
2322141	200 + 220 ml	± 0.15 ml	10

Volumetric flasks acc. to Kohlrausch

- for sugar analysis
- wide mouth for easy introduction of solid materials
- made of borosilicate glass 3.3 (clear glass)
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- class A
- blue graduation
- with 1 circular mark

Cat. No.	Capacity	Tolerance	Unit
2342051	100 ml	± 0.10 ml	8
2342361	200 ml	± 0.15 ml	8

Standard ground joint stoppers

- made of borosilicate glass 3.3
- very good chemical resistance
- with standard ground joint in compliance with DIN 12 252
- hollow
- with hexagonal grip
- with closed tip

Cat. No.	Ground joint	Unit
4820000	NS 7/16	10
4820001	NS 10/19	10
4820002	NS 12/21	10
4820003	NS 14/23	10
4820004	NS 19/26	10
4820005	NS 24/29	10
4820006	NS 29/32	10
4821000	NS 7/16	100
4821001	NS 10/19	100
4821002	NS 12/21	100
4821003	NS 14/23	100
4821004	NS 19/26	100
4821005	NS 24/29	100
4821006	NS 29/32	100

- made of polyethylene (PE-HD)
- with octagonal grip for easy opening and closing
- with red insert
- minimum order quantity: 10 pieces per size

Cat. No.	Ground joint
5402128	NS 7/16
5402129	NS 10/19
5402130	NS 12/21
5402131	NS 14/23
5402132	NS 19/26
5402133	NS 24/29
5402134	NS 29/32
5402135	NS 34/35





Burettes acc. to Mohr

Burettes are calibrated volumetric instruments with graduations and ground-in stopcocks. They are used in laboratories for quantitative measurements of smaller liquid volumes in titration.

Burettes are calibrated "Ex" (to deliver): The imprinted volume corresponds to the delivered quantity of liquid.

Classification:

- **Class AS** (fast delivery). "A" stands for highest accuracy, "S" for fast delivery. The tolerances of class AS are half of the tolerances of class B according to DIN ISO standards.
- **Class AS conformity certified** (fast delivery): Conformity means compliance with the German Calibration Regulations and the relevant standards. By imprinting the conformity symbol "H" we confirm that the measuring device complies with these conditions. A batch certificate of conformity is supplied together with every packing unit. On request, individual certificates of conformity are available.

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 385
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- circular graduation at main points
- well legible numbers and graduations
- total length approx. 760 +/- 20 mm
- 2 pieces in a sturdy carton

Cat. No.	Capacity	Tolerance	Unit
Class AS, with NS glass plug, clear glass blue graduation			
2422001	10 : 0.02 ml	± 0.02 ml	2
▶ 2422011	25 : 0.05 ml	± 0.03 ml	2
▶ 2422031	50 : 0.1 ml	± 0.05 ml	2
2422041	100 : 0.2 ml	± 0.10 ml	2
Class AS. with NS glass plug. with Schellbach stripe. blue graduation			
2423001	10 : 0.02 ml	± 0.02 ml	2
2423011	25 : 0.05 ml	± 0.03 ml	2
2423031	50 : 0.1 ml	± 0.05 ml	2
2423041	100 : 0.2 ml	± 0.10 ml	2

Burettes acc. to Mohr

- made of borosilicate glass 3.3 (amber glass: dyed brown)
- in compliance with DIN EN ISO 385
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- circular graduation at main points
- well legible numbers and graduations
- total length approx. 760 +/- 20 mm
- 2 pieces in a sturdy carton

Cat. No.	Capacity	Tolerance	Unit
Class AS, with NS PTFE plug, clear glass blue graduation			
2422101	10 : 0.02 ml	± 0.02 ml	2
▶ 2422111	25 : 0.05 ml	± 0.03 ml	2
▶ 2422131	50 : 0.1 ml	± 0.05 ml	2
2422141	100 : 0.2 ml	± 0.10 ml	2
Class AS. with NS PTFE plug. with Schellbach stripe blue graduation			
2423101	10 : 0.02 ml	± 0.02 ml	2
2423111	25 : 0.05 ml	± 0.03 ml	2
2423131	50 : 0.1 ml	± 0.05 ml	2
2423141	100 : 0.2 ml	± 0.10 ml	2
Class AS. with NS glass plug. clear glass made of KPG precision tubing. calibrated at 5 points conformity certified. with batch certificate blue graduation			
2432001	10 : 0.02 ml	± 0.02 ml	2
2432011	25 : 0.05 ml	± 0.03 ml	2
2432031	50 : 0.1 ml	± 0.05 ml	2
2432041	100 : 0.2 ml	± 0.10 ml	2

Cat. No.	Capacity	Tolerance	Unit
Class AS, with NS glass plug, amber glass white graduation			
2426002	10 : 0.02 ml	± 0.02 ml	2
2426012	25 : 0.05 ml	± 0.03 ml	2
2426032	50 : 0.1 ml	± 0.05 ml	2
2426042	100 : 0.2 ml	± 0.10 ml	2
Class AS with NS PTFE plug. amber glass white graduation			
2426102	10 : 0.02 ml	± 0.02 ml	2
2426112	25 : 0.05 ml	± 0.03 ml	2
2426132	50 : 0.1 ml	± 0.05 ml	2
2426142	100 : 0.2 ml	± 0.10 ml	2





Automatic burettes acc. to Pellet

Burettes are calibrated volumetric instruments with graduations and ground-in stopcocks. They are used in laboratories for quantitative measurements of smaller liquid volumes in titration.

Burettes are calibrated "Ex" (to deliver): The imprinted volume corresponds to the delivered quantity of liquid.

The Schellbach stripe facilitates reading precisely the meniscus of a liquid.

Classification:

- **Class AS** (fast delivery). "A" stands for highest accuracy, "S" for fast delivery. The tolerances of class AS are half of the tolerances of class B according to DIN ISO standards.

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 385
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with automatic zero adjustment
- without intermediate stopcock
- circular graduation at main points
- well legible numbers and graduations
- 2 pieces in a sturdy carton
- bottles and rubber bellows can be ordered separately

Cat. No.	Capacity	Tolerance	Unit
With NS glass plug in delivery stopcock class AS, clear class, blue graduation			
2522001	10 : 0.02 ml	± 0.02 ml	2
2522011	25 : 0.05 ml	± 0.03 ml	2
2522031	50 : 0.1 ml	± 0.05 ml	2
Class AS. with Schellbach stripe. blue graduation			
2523001	10 : 0.02 ml	± 0.02 ml	2
2523011	25 : 0.05 ml	± 0.03 ml	2
2523031	50 : 0.1 ml	± 0.05 ml	2
With NS PTFE plug in delivery stopcock class AS. clear glass. blue graduation			
2522101	10 : 0.02 ml	± 0.02 ml	2
2522111	25 : 0.05 ml	± 0.03 ml	2
2522131	50 : 0.1 ml	± 0.05 ml	2
Class AS. with Schellbach stripe. blue graduation			
2523101	10 : 0.02 ml	± 0.02 ml	2
2523111	25 : 0.05 ml	± 0.03 ml	2
2523131	50 : 0.1 ml	± 0.05 ml	2

Pellet burettes made of amber glass are available on request.

Rubber bellows for burettes

- made of red PVC
- single, with valve and tubing

Cat. No.	Capacity	Multipack
▶ 5901000	approx. 65 ml	50

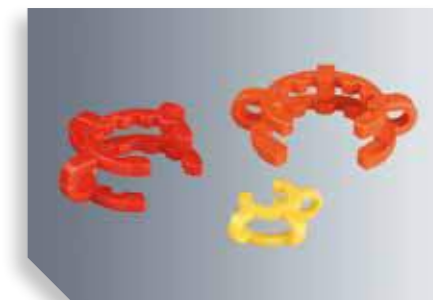


Clamps for standard ground joints

Clamps for standard ground joints are used to securely link the socket and the cone. In addition to their excellent resilience our clamps also offer stability.

- made of plastic (POM)
- very good chemical resistance
- maximum operating temperature: 150 °C
- different colours for rapid identification of respective ground joint sizes

Cat. No.	For	Colour	Multipack
5836500	NS 10/19	black	10
▶ 5836502	NS 14/23	yellow	10
▶ 5836503	NS 19/26	blue	10
▶ 5836504	NS 24/29	green	10
▶ 5836505	NS 29/32	red	10
5836506	NS 34/35	orange	10
5836507	NS 45/40	amber	10



Reservoir bottles for burettes

- made of soda lime glass
- with ground joint NS 29/32, without stopper

Cat. No.	Capacity		Multipack	Unit
▶ 3619009	2000 ml	clear glass	3 x 2	2
▶ 3619109	2000 ml	amber glass	3 x 2	2





Microburettes acc. to Bang

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 385
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- class AS (fast delivery, circular graduation at main points)
- calibrated "Ex" (to deliver)
- with blue graduation and Schellbach stripe at the back of the instrument. This stripe facilitates reading precisely the meniscus of a liquid.
- 4 pieces in a sturdy carton

Cat. No.	Capacity	Tolerance	Unit
Straight stopcock, with NS glass plug in delivery stopcock and in stopcock of filling tube			
2630001	1 : 0.01 ml	± 0.010 ml	4
2630101	2 : 0.01 ml	± 0.010 ml	4
2630201	5 : 0.01 ml	± 0.010 ml	4
2630501	10 : 0.02 ml	± 0.020 ml	4
Straight stopcock, with NS PTFE plug in delivery stopcock and in stopcock of filling tube			
2630011	1 : 0.01 ml	± 0.010 ml	4
2630111	2 : 0.01 ml	± 0.010 ml	4
2630211	5 : 0.01 ml	± 0.010 ml	4
2630511	10 : 0.02 ml	± 0.020 ml	4
Lateral fine regulation stopcock with PTFE screw valve and stopcock of filling tube with PTFE plug			
2640021	1 : 0.01 ml	± 0.010 ml	4
2640121	2 : 0.01 ml	± 0.010 ml	4
2640221	5 : 0.01 ml	± 0.010 ml	4
2640521	10 : 0.02 ml	± 0.020 ml	4

Bases for microburettes acc. to Bang

- for steady hold of microburettes with lateral stopcock
- made of metal and wood

Cat. No.	Unit
6622000	2

Automatic burettes acc. to Dr. Schilling

- with automatic zero adjustment
- class B
- the Schellbach stripe at the back of the clear glass burette facilitates reading precisely the meniscus of a liquid
- calibrated "Ex" (to deliver)
- with high grade pinchcock
- complete with plastic bottle and stable plastic base (red)
- top of burette is provided with an overflow tube
- bottle and burette are firmly fixed by the fitting
- suitable for left- and right-handers
- 2 pieces in a sturdy carton

Cat. No.	Capacity burette	Capacity bottle	Fitting	Unit
Clear glass, with Schellbach stripe blue graduation				
2600400	5 : 0.05 ml	500 ml	blue	2
▶ 2600600	10 : 0.05 ml	500 ml	blue	2
▶ 2600800	25 : 0.1 ml	1000 ml	red	2
▶ 2601000	50 : 0.1 ml	1000 ml	red	2
Amber glass white graduation				
2600403	5 : 0.05 ml	500 ml	blue	2
2600603	10 : 0.05 ml	500 ml	blue	2
2600803	25 : 0.1 ml	1000 ml	red	2
2601003	50 : 0.1 ml	1000 ml	red	2

Burettes acc. to Daffert

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 385
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with automatic zero adjustment
- calibrated "Ex" (to deliver)
- class AS (fast delivery, circular graduation at main points)
- with blue graduation and Schellbach stripe at the back of the instrument. This stripe facilitates reading precisely the meniscus of a liquid.
- double oblique bore stopcock with ground joint PTFE plug for convenient change between filling and titrating
- 4 pieces in a sturdy carton

Cat. No.	Capacity	Tolerance	Unit
2650841	25 : 0.1 ml	± 0.05 ml	4
2651041	50 : 0.1 ml	± 0.10 ml	4





Brushes for burettes

- bristles with protection cap
- galvanised wire handle with loop to hang up

Cat. No.	Total length	Head: Length x Ø	Unit
6210029	100 cm	150 x 30 mm	10



Universal clamps

- made of powder-coated zinc die-casting
- with cork-lined jaws
- diameter of rod 10 mm
- span width 0 to 80 mm

Cat. No.	Unit
6648004	5



Clamps for burettes

- nickel-plated zinc die-casting
- clamps and jaw dies are plastic coated
- span width: 0 to 40 mm

Cat. No.	
▶ 6610001	for 1 burette
▶ 6610003	for 2 burettes



Stands for burettes

- to be assembled by a base plate and a rod
- non-slipping stand due to its rubber feet

Cat. No.	Length x width
▶ 6647402	Plate made of powder-coated steel 210 x 130 mm

Cat. No.	Length x Ø
▶ 6647601	Rod, zinc-coated, with thread M 10 750 x 12 mm

▶ This arrow indicates products that are usually available on short notice.

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Gas washing bottles acc. to Drechsel

- the set is to be combined by the gas washing bottle and the required head with standard ground joint 29/32
- components can be ordered separately

Cat. No.		Multipack
Bottle only, NS 29/32 soda lime glass		
4800200	100 ml	10
4800201	250 ml	10
4800202	500 ml	10
Head only, NS 29/32 borosilicate glass Duran®		
4820303	without sintered disc	10
4820503	with sintered disc of porosity 1	10



Oxygen bottles acc. to Winkler

For the determination of oxygen dissolved in water

- made of clear glass
- with ground-in stopper
- with frosted marking area
- exact volume is engraved on the flask
- tolerance: ± 0.1 ml
- stopper and bottle show identical number and cannot be exchanged

Cat. No.	Capacity	Multipack
3618016	100 to 150 ml	48
3618017	250 to 300 ml	30





Specific gravity bottles acc. to Gay-Lussac

The specific gravity bottle is a measuring device to determine the density of liquids.

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- pear-shaped
- with ground-in glass stopper
- the calibrated versions show the actual capacity ± 0.001 ml.
The exact capacity is durably engraved into the glass.

Cat. No.	Capacity	Unit
Not calibrated		
2702000	5 ml	2
2703000	10 ml	2
2704000	25 ml	2
2705000	50 ml	2
2706000	100 ml	2
Calibrated at 20 °C ("In")		
2710000	1 ml	2
2711000	2 ml	2
2712000	5 ml	2
▶ 2713000	10 ml	2
▶ 2714000	25 ml	2
▶ 2715000	50 ml	2
2716000	100 ml	2



Specific gravity bottles with ground joint thermometer NS 10/19

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- lateral capillary tube with glass cap on ground joint
- measuring range of thermometer: 10 to 35 °C
- calibrated at 20 °C ("In") showing the actual capacity ± 0.001 ml.
The exact capacity is durably engraved into the glass.

Cat. No.	Capacity	Unit
2722000	5 ml	2
2723000	10 ml	DIN 12 809
2724000	25 ml	DIN 12 809
2725000	50 ml	DIN 12 809
2726000	100 ml	2



Sedimentation cones

Sedimentation cones according to Imhoff are used for determination of sedimentable particles in water.

- made of borosilicate glass 3.3
- in compliance with DIN 12 672
- white graduation

Cat. No.	Unit
With stopcock	
2800001	graduated 0 to 100 ml, with mark at 1000 ml
2800003	graduated 0 to 1000 ml
Without stopcock	
2800000	graduated 0 to 100 ml, with mark at 1000 ml
2800002	graduated 0 to 1000 ml



Racks for sedimentation cones

- made of wood
- for steady hold of 2 sedimentation cones without stopcock

Cat. No.	Unit
6530010	1



Water jet filter pumps

For various applications: to generate vacuum and to extract liquids and vapours. Besides its very low water consumption (190 l/h at 3.5 bar flow pressure) and constant final pressure (16 mbar) the water jet filter pump offers a remarkable suction capability (approx. 400 l air/h).

- made of polypropylene
- good chemical resistance
- maximum operating temperature: 80 °C
- with non-return valve
- water jet pump includes:
sleeve nut R3/4", reducing adapter R 1/2"
and tubing connector (hose nozzle) of 10-12 mm outer diameter
- suction line connection:
detachable hose nozzle of 6-9 mm outer diameter, with screw cap GL 14

Cat. No.	Unit
5877000	1



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Beakers are no measuring instruments. Their scales are only approximate.

Beakers, glass

- made of borosilicate glass 3.3
- in compliance with DIN 12 331, ISO 3819
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with spout
- white graduation

Cat. No.	Capacity	Division	Diameter	Height	Unit
Low form (Griffin type)					
▶ 4110000	5 ml	2,5 ml	22 mm	30 mm	10
▶ 4110001	10 ml	2,5 ml	26 mm	35 mm	10
▶ 4110002	25 ml	5 ml	34 mm	50 mm	10
▶ 4110003	50 ml	10 ml	42 mm	60 mm	10
▶ 4110004	100 ml	10 ml	50 mm	70 mm	10
▶ 4110005	150 ml	25 ml	60 mm	80 mm	10
▶ 4110007	250 ml	25 ml	70 mm	95 mm	10
▶ 4110009	400 ml	50 ml	80 mm	110 mm	10
▶ 4110011	600 ml	50 ml	90 mm	125 mm	10
▶ 4110012	800 ml	100 ml	100 mm	135 mm	10
▶ 4110013	1000 ml	100 ml	105 mm	145 mm	10
▶ 4110014	2000 ml	250 ml	130 mm	185 mm	4
▶ 4110015	3000 ml	500 ml	150 mm	210 mm	4
▶ 4110017	5000 ml	500 ml	170 mm	270 mm	2
Tall form					
▶ 4110102	25 ml	5 ml	30 mm	55 mm	10
▶ 4110103	50 ml	10 ml	38 mm	70 mm	10
▶ 4110104	100 ml	10 ml	48 mm	80 mm	10
▶ 4110105	150 ml	25 ml	54 mm	95 mm	10
▶ 4110107	250 ml	25 ml	60 mm	120 mm	10
▶ 4110109	400 ml	50 ml	70 mm	130 mm	10
▶ 4110111	600 ml	50 ml	80 mm	150 mm	10
▶ 4110112	800 ml	100 ml	90 mm	175 mm	10
▶ 4110113	1000 ml	100 ml	95 mm	180 mm	10
▶ 4110114	2000 ml	250 ml	120 mm	240 mm	6
▶ 4110115	3000 ml	500 ml	135 mm	280 mm	6

Beaker tongs

- made of stainless steel
- vinyl coated
- minimum order quantity: 10 pieces

Cat. No.	Total length	Holding capacity
6606001	260 mm	40 to 100 mm

▶ This arrow indicates products that are usually available on short notice.

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Beakers, plastic

- made of transparent polypropylene
- in compliance with DIN 7056
- break-resistant
- low form (Griffin type)
- with spout
- blue graduation
- autoclavable at 121 °C
- maximum operating temperature: 125 °C

Cat. No.	Capacity	Division	Diameter	Height	Unit
▶ 5501705	25 ml	1 ml	34 mm	49 mm	10
▶ 5501706	50 ml	5 ml	43 mm	60 mm	10
▶ 5501707	100 ml	5 ml	51 mm	72 mm	10
▶ 5501708	150 ml	5 ml	58 mm	82 mm	10
▶ 5501709	250 ml	5 ml	70 mm	95 mm	10
▶ 5501710	400 ml	10 ml	80 mm	110 mm	10
▶ 5501712	600 ml	25 ml	93 mm	125 mm	10
▶ 5501713	1000 ml	50 ml	108 mm	148 mm	10
▶ 5501714	2000 ml	100 ml	140 mm	188 mm	10

Measuring jugs, plastic

- made of transparent polypropylene
- break-resistant
- with handle
- with spout
- with moulded blue graduation
- autoclavable at 121 °C
- maximum operating temperature: 125 °C



Cat. No.	Capacity	Division	Diameter	Height	Unit
5501106	50 ml	2 ml	40 mm	70 mm	24
5501107	100 ml	2 ml	50 mm	80 mm	24
5501109	250 ml	5 ml	70 mm	120 mm	12
5501111	500 ml	10 ml	91 mm	133 mm	12
5501113	1000 ml	20 ml	116 mm	182 mm	6
5501114	2000 ml	50 ml	150 mm	215 mm	6
5501115	3000 ml	50 ml	170 mm	242 mm	6
5501116	5000 ml	100 ml	210 mm	270 mm	6

Beaker brushes

- with bristles and nylon on galvanised wire
- with wooden handle

Cat. No.	Total length	Head: Length x Ø	Unit
6243001	430 mm	140 x 60 to 85 mm	10

▶ This arrow indicates products that are usually available on short notice.



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Erlenmeyer flasks are no measuring instruments. Their scales are only approximate.

Erlenmeyer flasks, glass

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with beaded rim
- white graduation

Cat. No.	Capacity	Division	Ø Bottom x Ø Neck	Height	Unit
Narrow neck DIN ISO 1773					
4110202	25 ml	10 ml	42 x 22 mm	75 mm	10
▶ 4110203	50 ml	10 ml	51 x 22 mm	90 mm	10
▶ 4110204	100 ml	25 ml	64 x 22 mm	105 mm	10
4110206	200 ml	50 ml	79 x 34 mm	135 mm	10
▶ 4110207	250 ml	50 ml	85 x 34 mm	145 mm	10
▶ 4110208	300 ml	50 ml	87 x 34 mm	160 mm	10
▶ 4110210	500 ml	50 ml	105 x 34 mm	180 mm	10
▶ 4110213	1000 ml	100 ml	131 x 42 mm	220 mm	10
▶ 4110214	2000 ml	250 ml	166 x 50 mm	280 mm	10
4110215	3000 ml	500 ml	187 x 50 mm	310 mm	6
4110217	5000 ml	500 ml	220 x 50 mm	365 mm	2
Wide neck DIN 12 385					
4110302	25 ml	10 ml	42 x 32 mm	70 mm	10
4110303	50 ml	10 ml	51 x 34 mm	85 mm	10
▶ 4110304	100 ml	25 ml	64 x 34 mm	110 mm	10
4110306	200 ml	50 ml	79 x 50 mm	131 mm	10
▶ 4110307	250 ml	50 ml	85 x 50 mm	140 mm	10
4110308	300 ml	50 ml	87 x 50 mm	156 mm	10
▶ 4110310	500 ml	50 ml	105 x 50 mm	175 mm	10
4110313	1000 ml	100 ml	131 x 50 mm	220 mm	10
4110314	2000 ml	250 ml	153 x 72 mm	280 mm	6

Erlenmeyer flasks with screw cap

- made of borosilicate glass 3.3 Simax
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with DIN thread
- with screw cap made of blue polypropylene (T_{max.} 140 °C)
- white graduation

Cat. No.	Capacity	Division	Thread	Height with cap	Unit
4121804	100 ml	25 ml	GL 25	107 mm	10
4121807	250 ml	50 ml	GL 32	150 mm	10
4121810	500 ml	50 ml	GL 32	187 mm	10
4121813	1000 ml	100 ml	GL 32	225 mm	10

▶ This arrow indicates products that are usually available on short notice.

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Erlenmeyer flasks with standard ground joint

- made of borosilicate glass 3.3
- in compliance with DIN 12 387
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- white graduation
- stoppers are not included. Please order them separately.

Cat. No.	Capacity	Ground joint	Unit
4310302	25 ml	NS 14/23	10
4310403	50 ml	NS 19/26	10
4310504	100 ml	NS 24/29	10
4310604	100 ml	NS 29/32	10
4310507	250 ml	NS 24/29	10
4310607	250 ml	NS 29/32	10
4310610	500 ml	NS 29/32	10
4310613	1000 ml	NS 29/32	10

Standard ground joint stoppers

- made of borosilicate glass 3.3
- with standard ground joint in compliance with DIN 12 252
- very good chemical resistance
- hollow
- with hexagonal grip
- with closed tip

Cat. No.	Ground joint	Unit
4820003	NS 14/23	10
4820004	NS 19/26	10
4820005	NS 24/29	10
4820006	NS 29/32	10

Erlenmeyer flasks, plastic

- made of transparent polypropylene
- break-resistant
- wide neck
- with screw cap (also suitable for standard ground joint stoppers)
- blue graduation
- autoclavable at 121 °C
- maximum operating temperature: 125 °C

Cat. No.	Capacity	Division	Thread	For NS	Unit
5811000	50 ml	10 ml	GL 40	34/35	6
5811001	100 ml	20 ml	GL 40	34/35	6
5811002	250 ml	50 ml	GL 52	45/40	6
5811003	500 ml	100 ml	GL 52	45/40	6
5811004	1000 ml	200 ml	GL 52	45/40	4



Erlenmeyer flasks are no measuring instruments. Their scales are only approximate.



Erlenmeyer flasks are no measuring instruments. Their scales are only approximate.



Erlenmeyer flasks are no measuring instruments. Their scales are only approximate.



Flasks with beaded rim

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks

Cat. No.	Capacity	Ø Neck	Ø Flask	Height	Unit
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Round bottom flasks, narrow neck DIN ISO 1773

4110403	50 ml	22 mm	51 mm	95 mm	10
4110404	100 ml	22 mm	64 mm	110 mm	10
4110407	250 ml	34 mm	85 mm	143 mm	10
4110410	500 ml	34 mm	105 mm	168 mm	10
4110413	1000 ml	42 mm	131 mm	200 mm	10
4110414	2000 ml	50 mm	166 mm	240 mm	6

Flat bottom flasks, narrow neck DIN ISO 1773

4110603	50 ml	22 mm	51 mm	90 mm	10
4110604	100 ml	22 mm	64 mm	105 mm	10
4110607	250 ml	34 mm	85 mm	138 mm	10
4110610	500 ml	34 mm	105 mm	163 mm	10
4110613	1000 ml	42 mm	131 mm	190 mm	10
4110614	2000 ml	50 mm	166 mm	230 mm	6



Lead rings for weighing down

These rings are used for weighing down containers and prevent flasks from floating or tilting over in water baths (by putting the ring around the flasks' necks).

- made of lead
- with strong PVC coating. The coating protects the surfaces of flasks and workplaces.
- very good chemical and thermal resistance
- non-ageing material
- open C-shape. Suitable for containers with side connections.
- individually packed

Cat. No.	Diameter int.	Weight	Unit
6607100	50 mm	660 g	1
6607101	70 mm	930 g	1
6607102	100 mm	1190 g	1

Flask tongs

- made of stainless steel
- vinyl coated
- minimum order quantity: 10 pieces

Cat. No.	Total length	Holding capacity
6626002	300 mm	45 to 70 mm



Flasks with standard ground joint

- made of borosilicate glass 3.3
- in compliance with DIN EN ISO 4797
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- short neck

Cat. No.	Capacity	NS-Socket	Ø Flask mm	Height mm	Unit
----------	----------	-----------	------------	-----------	------

Round bottom flasks

4311503	50 ml	24/29	55 ± 1.8	100 ± 6	10
4311603	50 ml	29/32	55 ± 1.8	100 ± 6	10
4311504	100 ml	24/29	65 ± 2.0	110 ± 6	10
4311604	100 ml	29/32	65 ± 2.0	110 ± 6	10
4311507	250 ml	24/29	85 ± 2.6	130 ± 6	10
4311607	250 ml	29/32	85 ± 2.6	130 ± 6	10
4311610	500 ml	29/32	100 ± 3.0	165 ± 6	10
4311613	1000 ml	29/32	120 ± 3.5	190 ± 6	10

Flat bottom flasks

4312503	50 ml	24/29	55 ± 1.8	90 ± 6	10
4312603	50 ml	29/32	55 ± 1.8	90 ± 6	10
4312504	100 ml	24/29	65 ± 2.0	105 ± 6	10
4312604	100 ml	29/32	65 ± 2.0	105 ± 6	10
4312507	250 ml	24/29	85 ± 2.6	125 ± 6	10
4312607	250 ml	29/32	85 ± 2.6	125 ± 6	10
4312610	500 ml	29/32	100 ± 3.0	160 ± 6	10
4312513	1000 ml	24/29	120 ± 3.5	185 ± 6	10
4312613	1000 ml	29/32	120 ± 3.5	185 ± 6	10



Brushes for flasks

- with tilting head
- suitable for flasks with ground joint NS 29/32 and wider
- with wooden handle
- natural bristle stamped into wooden head

Cat. No.	Total length	Bristle	Unit
6204430	400 mm	42 x 20 mm	10





Condensers acc. to Liebig

- made of borosilicate glass Duran®
- in compliance with DIN 12576 (NS 24/29 in supplement to DIN)
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with 2 standard ground joints
- water connection: glass hose nozzle

Cat. No.	Jacket length	Cone	Socket	Ø Hose	Unit
4710708	250 mm	NS 24/29	NS 24/29	11 mm	5
4710709	250 mm	NS 29/32	NS 29/32	11 mm	5



Condensers acc. to Allihn

- made of borosilicate glass Duran®
- in compliance with DIN 12581 (NS 24/29 in supplement to DIN)
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with 2 standard ground joints
- with 5 bulbs (for length 250 mm)
- water connection: glass hose nozzle

Cat. No.	Jacket length	Cone	Socket	Ø Hose	Unit
4710808	250 mm	NS 24/29	NS 24/29	11 mm	5
4710809	250 mm	NS 29/32	NS 29/32	11 mm	5



Condensers acc. to Dimroth

- made of borosilicate glass Duran®
- in compliance with DIN 12591 (NS 24/29 in supplement to DIN)
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with 2 standard ground joints
- water connection: glass hose nozzle

Cat. No.	Jacket length	Cone	Socket	Ø Hose	Unit
4711008	250 mm	NS 24/29	NS 24/29	11 mm	5
4711009	250 mm	NS 29/32	NS 29/32	11 mm	5

Separatory funnels acc. to Squibb

- made of borosilicate glass 3.3
- in compliance with DIN ISO 4800
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with poly stopper standard ground joint 29/32 (100 ml: NS 19/26)

Cat. No.	Capacity	Stopcock: Ground joint	Bore	Unit
Stopcock with NS PTFE plug, ungraduated				
4411140	100 ml	NS 14.5	2.5 mm	2
4411240	250 ml	NS 14.5	2.5 mm	2
4411340	500 ml	NS 18.8	4.0 mm	1
4411440	1000 ml	NS 18.8	4.0 mm	1
4411540	2000 ml	NS 18.8	4.0 mm	1
Stopcock with NS PTFE plug, with blue graduation				
4411150	100 ml	NS 14.5	2.5 mm	2
4411250	250 ml	NS 14.5	2.5 mm	2
4411350	500 ml	NS 18.8	4.0 mm	1
4411450	1000 ml	NS 18.8	4.0 mm	1
4411550	2000 ml	NS 18.8	4.0 mm	1



Separatory funnels with conical shape

- made of borosilicate glass 3.3 Duran®
- in compliance with DIN ISO 4800
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with poly stopper standard ground joint 29/32 (100 ml: NS 19/26)

Cat. No.	Capacity	Stopcock: Ground joint	Bore	Unit
Stopcock with NS PTFE plug, ungraduated				
4400140	100 ml	NS 14.5	2.5 mm	2
4400240	250 ml	NS 14.5	2.5 mm	2
4400340	500 ml	NS 18.8	4.0 mm	1
4400440	1000 ml	NS 18.8	4.0 mm	1
4400540	2000 ml	NS 18.8	4.0 mm	1
Stopcock with NS PTFE plug, with blue graduation				
4400150	100 ml	NS 14.5	2.5 mm	2
4400250	250 ml	NS 14.5	2.5 mm	2
4400350	500 ml	NS 18.8	4.0 mm	1
4400450	1000 ml	NS 18.8	4.0 mm	1
4400550	2000 ml	NS 18.8	4.0 mm	1





Funnels

- made of borosilicate glass 3.3
- in compliance with DIN 12 445
- with plain surfaces
- angle: 60°
- with short and angled-ground stem (length of stem ≈ diameter of funnel)

Cat. No.	Diameter	Stem Ø ext. (± 0.2 mm)	Unit
3501030	30 mm	6	10
3501035	35 mm	6	10
▶ 3501040	40 mm	6	10
▶ 3501045	45 mm	6	10
▶ 3501050	50 mm	7	10
▶ 3501055	55 mm	8	10
▶ 3501060	60 mm	8	10
▶ 3501070	70 mm	8	10
▶ 3501080	80 mm	9	10
▶ 3501100	100 mm	10	10
3501125	125 mm	16	6
▶ 3501150	150 mm	16	10
3501200	200 mm	24	6
3501250	250 mm	30	2



Bunsen funnels

- made of borosilicate glass 3.3
- in compliance with DIN 12 446
- with plain surfaces
- length of stem: approx. 150 mm

Cat. No.	Diameter	Stem Ø ext. (± 0.2 mm)	Unit
3511045	45 mm	6	10
3511055	55 mm	8	10
3511070	70 mm	8	10
3511080	80 mm	9	10
3511100	100 mm	10	10



Funnels, plastic

- made of polypropylene
- with plain surfaces and short stem

Cat. No.	Diameter	Unit
5868002	40 mm	24
5868003	50 mm	24
5868004	75 mm	12
5868005	100 mm	12
5868006	120 mm	12
5868007	150 mm	12



▶ This arrow indicates products that are usually available on short notice.

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Ointment jars

- made of amber glass of hydrolytic class 3
- with screw thread
- autoclavable
- screw caps are not included. Please order them separately.

Cat. No.	Capacity	Thread	unit
3668131	60 ml	51/R3	72
3668141	108 ml	58/R3	49

Screw caps for ointment jars

Cat. No.	For capacity	Thread
5454924	60 ml	DIN 50 Polypropylene black, with ALKOzell insert 2 mm
5458752	108 ml	GPI 58-400 Urea resin 131.5 black, with PE-foam insert 1 mm



Square laboratory bottles GL80

- made of borosilicate glass 3.3 Simax
- in compliance with ISO 4796
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable 121 °C
- sterilizable (steam 134°C)
- not suitable for working under pressure or vacuum
- with retrace code for traceability
- white graduation
- with DIN thread GL 80
- complete with pouring ring and screw cap made of blue polypropylene (T_{max.} 140 °C)

Cat. No.	Capacity	Dimension mm	Unit
Clear glass			
3667507	500 ml	94 x 94 x 139	10
3667508	1000 ml	105 x 105 x 185	10
3667509	2000 ml	115 x 115 x 258	10
3667512	5000 ml	160 x 160 x 357	6
With amber colour coating			
3667607	500 ml	94 x 94 x 139	10
3667608	1000 ml	105 x 105 x 185	10
3667609	2000 ml	115 x 115 x 258	10
3667612	5000 ml	160 x 160 x 357	6



New



New



New



New



Laboratory bottles

- made of borosilicate glass 3.3 Simax
- in compliance with ISO 4796
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable at 121 °C
- sterilizable (steam 134 °C)
- not suitable for working under pressure or vacuum
- with retrace code for traceability
- white graduation
- with DIN thread GL 45
- complete with pouring ring and screw cap made of blue polypropylene (T_{max.} 140 °C)

Cat. No.	Capacity	Ø mm	Height mm	Multipack	Unit
Clear glass					
3607504	50 ml	45	90	310 x 10	10
▶ 3607505	100 ml	56	100	234 x 10	10
▶ 3607506	250 ml	70	138	140 x 10	10
▶ 3607507	500 ml	86	176	72 x 10	10
▶ 3607508	1000 ml	101	225	49 x 10	10
▶ 3607509	2000 ml	136	260	24 x 10	10
▶ 3607512	5000 ml	186	330	16 x 6	6
3607513	10000 ml	234	410	42 x 1	1
3607515	20000 ml	299	505		1
With amber colour coating					
3607604	50 ml	45	90	380 x 10	10
3607605	100 ml	56	100	234 x 10	10
3607606	250 ml	70	138	140 x 10	10
3607607	500 ml	86	176	72 x 10	10
3607608	1000 ml	101	225	49 x 10	10
3607609	2000 ml	136	260	24 x 10	10
3607612	5000 ml	186	330	16 x 6	6
3607613	10000 ml	234	410	42 x 1	1
3607615	20000 ml	299	505		1

Spare parts for laboratory bottles

Cat. No.	Unit
Thread GL 45	
▶ 5444122	Pouring ring made of blue polypropylene (T _{max.} 140 °C) 10
▶ 5444722	Screw cap made of blue polypropylene (T _{max.} 140 °C) 10
5440122	Pouring ring made of red PBT (T _{max.} 180 °C) 10
5440822	Screw cap made of red PBT (T _{max.} 180 °C) 10
Thread GL 32	
5444120	Pouring ring made of blue polypropylene (T _{max.} 140 °C) 10
5444720	Screw cap made of blue polypropylene (T _{max.} 140 °C) 10
5440120	Pouring ring made of red PBT (T _{max.} 180 °C) 10
5440820	Screw cap made of red PBT (T _{max.} 180 °C) 10

▶ This arrow indicates products that are usually available on short notice.

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Safety laboratory bottles

These bottles have the same characteristics as the laboratory bottles. In addition, they have a plastic coating to protect the contents of the bottle in the event of a breakage. The coating provides protection against shocks, shatter and anti-slip. The safe laboratory bottles are ideal for transportation and storage of hazardous media or valuable samples.

- transmission / UV-protection: up to approx. 380 nm wavelength
- temperature durability PU: -30 °C to + 135 °C
- short-term temperature resistance: up to 190 °C
- suitable for use in a microwave
- suitable for freezing

Cat. No.	Capacity	Ø mm	Height mm	Multipack	Unit
Clear glass, plastic coated					
3607705	100 ml	56	100	234 x 10	10
3607706	250 ml	70	138	140 x 10	10
3607707	500 ml	86	176	72 x 10	10
3607708	1000 ml	101	225	49 x 10	10
3607709	2000 ml	136	260	24 x 10	10
3607712	5000 ml	186	330	16 x 6	6
3607713	10000 ml	234	410	42 x 1	1
3607715	20000 ml	299	505		1
With amber colour coating, plastic coated					
3607805	100 ml	56	100	234 x 10	10
3607806	250 ml	70	138	140 x 10	10
3607807	500 ml	86	176	72 x 10	10
3607808	1000 ml	101	225	49 x 10	10
3607809	2000 ml	136	260	24 x 10	10
3607812	5000 ml	186	330	16 x 6	6
3607813	10000 ml	234	410	42 x 1	1
3607815	20000 ml	299	505		1

Filtrating flasks

For filtration with reduced pressure these special flasks serve as collecting vessel for the filtrate.

- made of borosilicate glass 3.3 Simax
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- Erlenmeyer shape
- with loosely attached plastic hose nozzle

Cat. No.	Capacity	Unit
3623505	100 ml	10
3623506	250 ml	10
3623507	500 ml	8
3623508	1000 ml	8
3623509	2000 ml	6





Thread bottles, round shoulder

- made of glass of 3. hydrolytic class
- autoclavable
- minimum order quantity: 10 pieces per size
- screw caps are not included. Please order them separately.

Cat. No.	Capacity	Thread	Multipack
Clear glass, narrow neck			
▶ 3655003	30 ml	GL 18	143
▶ 3655005	100 ml	GL 22	72
▶ 3655006	250 ml	GL 22	42
▶ 3655007	500 ml	GL 25	35
▶ 3655008	1000 ml	GL 28	20
Clear glass, wide neck			
▶ 3656003	30 ml	GL 32	126
▶ 3656004	50 ml	GL 32	85
▶ 3656005	100 ml	GL 40	63
▶ 3656006	250 ml	GL 55	48
▶ 3656007	500 ml	GL 55	20
▶ 3656008	1000 ml	GL 68	18
Amber glass, narrow neck			
▶ 3655105	100 ml	GL 22	105
▶ 3655106	250 ml	GL 22	42
▶ 3655107	500 ml	GL 25	35
▶ 3655108	1000 ml	GL 28	20
Amber glass, wide neck			
▶ 3656103	30 ml	GL 32	126
▶ 3656104	50 ml	GL 32	85
▶ 3656105	100 ml	GL 40	56
▶ 3656106	250 ml	GL 55	42
▶ 3656107	500 ml	GL 55	20
▶ 3656108	1000 ml	GL 68	12

Screw caps DIN for thread bottles

- made of black plastic, with PE-LD seal
- minimum order quantity: 10 pieces per size

Cat. No.	Thread
▶ 5457417	GL 18
▶ 5457442	GL 22
▶ 5457418	GL 25
▶ 5457419	GL 28
▶ 5457420	GL 32
▶ 5457421	GL 40
▶ 5457443	GL 55
▶ 5457444	GL 68

▶ This arrow indicates products that are usually available on short notice.

Spray bottles

To be assembled by DIN-thread bottle and bent delivery tube.

- break resistant bottle made of transparent polyethylene (PE-LD)
- minimum order quantity: 10 pieces per size

Cat. No.	Capacity	Thread	Ø	Height	Ø Neck int.
Thread bottle, narrow neck					
▶ 5401307	250 ml	GL 25	60 mm	138 mm	18 mm
▶ 5401308	500 ml	GL 25	75 mm	169 mm	18 mm
▶ 5401309	1000 ml	GL 28	95 mm	212 mm	21 mm
5401310	2000 ml	GL 28	120 mm	260 mm	21 mm
Spray head with adjustable nozzle and suction tube					
5408918	GL 25 suitable for bottles 250 ml and 500 ml				
5408919	GL 28 suitable for bottles 1000 ml and 2000 ml				

Washing bottles

To be assembled by DIN-thread bottle and bent delivery tube.

- made of transparent polyethylene (PE-LD)
- material considered harmless, suitable for food contact, break-resistant
- minimum order quantity: 10 pieces per size
- Large packing: 100 pieces (2000 ml: 10 pieces)

Cat. No.	Capacity	Thread	Ø	Height	Ø Neck int.
Thread bottle, narrow neck					
▶ 5401306	100 ml	GL 18	45 mm	102 mm	13 mm
▶ 5401307	250 ml	GL 25	60 mm	138 mm	18 mm
▶ 5401308	500 ml	GL 25	75 mm	169 mm	18 mm
▶ 5401309	1000 ml	GL 28	95 mm	212 mm	21 mm
5401310	2000 ml	GL 28	120 mm	260 mm	21 mm
Screw cap with bent delivery tube					
▶ 5402306	GL 18 suitable for bottles 100 ml				
▶ 5402308	GL 25 suitable for bottles 250 ml and 500 ml				
▶ 5402309	GL 28 suitable for bottles 1000 ml and 2000 ml				

Washing bottles with hazard symbol

Complete set consisting of DIN-thread bottle and bent delivery tube.

- made of polyethylene (PE-LD)
- material considered harmless, suitable for food contact, break-resistant
- yellow coloured bottle with coloured imprint and hazard symbol
- minimum order quantity: 5 pieces per size

Cat. No.	Capacity	Imprint
5402546	500 ml	Distilled water
5402547	500 ml	Acetone
5402565	1000 ml	Distilled water
5402566	1000 ml	Acetone

▶ This arrow indicates products that are usually available on short notice.



New





New

Thread bottles, plastic

Multi-purpose bottles for a wide range of applications like storage, packaging, sampling and transport.

- made of transparent polyethylene (PE-LD)
- material considered harmless, suitable for food contact
- break-resistant
- with DIN thread
- minimum order quantity: 10 pieces per size
- screw caps are not included. Please order them separately.

Cat. No.	Capacity	Thread	Ø	Height	Ø Neck int.
Narrow neck					
5401301	10 ml	GL 14	26 mm	45,5 mm	9 mm
5401304	30 ml	GL 14	35 mm	66 mm	9 mm
5401305	50 ml	GL 18	40 mm	84 mm	13 mm
▶ 5401306	100 ml	GL 18	45 mm	102 mm	13 mm
▶ 5401307	250 ml	GL 25	60 mm	138 mm	18 mm
▶ 5401308	500 ml	GL 25	75 mm	169 mm	18 mm
▶ 5401309	1000 ml	GL 28	95 mm	212 mm	21 mm
5401310	2000 ml	GL 28	120 mm	260 mm	21 mm
Wide neck					
5403305	50 ml	GL 32	40 mm	77 mm	24 mm
5403306	100 ml	GL 32	48 mm	92 mm	24 mm
5403307	250 ml	GL 40	64 mm	123 mm	31 mm
5403308	500 ml	GL 50	75 mm	153 mm	38,5 mm
5403309	1000 ml	GL 65	94 mm	202 mm	50 mm
5403310	2000 ml	GL 65	120 mm	243 mm	50 mm

Square bottles, plastic

- made of transparent polyethylene (PE-LD)
- material considered harmless, suitable for food contact
- break-resistant
- with DIN thread
- minimum order quantity: 10 pieces per size
- large packing: 100 pcs per size (1500 ml: 10 pcs)
- screw caps are not included. Please order them separately.

Cat. No.	Capacity	Thread	Ø	Height	Ø Neck int.
Wide neck					
5408806	100 ml	GL 32	46 x 46 mm	78 mm	24,0 mm
5408807	250 ml	GL 50	80 x 80 mm	83 mm	38,5 mm
5408808	500 ml	GL 65	90 x 90 mm	120 mm	50,0 mm
5408809	1000 ml	GL 65	90 x 90 mm	168 mm	50,0 mm
5408853	1500 ml	GL 65	98 x 98 mm	212 mm	50,0 mm

▶ This arrow indicates products that are usually available on short notice.

Screw caps for thread bottles

- made of transparent polyethylene (PE-LD)
- material considered harmless, suitable for food contact
- with DIN thread
- minimum order quantity: 10 pieces per size

Cat. No.	Thread	Multipack
▶ 5402216	GL 14	100
▶ 5402217	GL 18	100
▶ 5402218	GL 25	100
▶ 5402219	GL 28	100
▶ 5402220	GL 32	100
▶ 5402221	GL 40	100
▶ 5402224	GL 50	100
▶ 5402227	GL 65	100
Screw caps with dropping tip		
▶ 5402816	GL 14	100
▶ 5402817	GL 18	100
▶ 5402818	GL 25	100

Nalgene thread bottles, plastic

These bottles dispose about a very good chemical resistance to the most acids, bases and alcohols. Before autoclaving them please remove the closure and put it on the top of the container.

- made of polypropylene
- with polypropylene screw cap
- wide neck
- autoclavable
- leak proof

Cat. No.	Capacity	Nalgene Ref. No.	Unit
5468604	30 ml	2105-0001	72
5468605	60 ml	2105-0002	72
5468606	125 ml	2105-0004	72
5468607	250 ml	2105-0008	72
5468608	500 ml	2105-0016	48
5468609	1000 ml	2105-0032	24



▶ This arrow indicates products that are usually available on short notice.



Dropping bottles (Thread bottles)

- made of amber glass of 3. hydrolytic class
- with DIN thread GL 18
- serve for multiple applications thanks to many different screw caps

Cat. No.	Capacity	Height	Diameter	Multipack	Unit
Bottle without cap					
3665130	5 ml	53.2 mm	22.5 mm	170 x 186	186
▶ 3665127	10 ml	63.7 mm	24.2 mm	170 x 145	145
3665138	15 ml	64.2 mm	27.8 mm	108 x 195	195
3665132	20 ml	71.5 mm	28.6 mm	72 x 195	195
3665102	25 ml	78.2 mm	30.0 mm	120 x 135	135
▶ 3665103	30 ml	79.3 mm	32.6 mm	90 x 98	98
▶ 3665104	50 ml	92.0 mm	37.7 mm	60 x 105	105
3665105	100 ml	111.0 mm	46.7 mm	48 x 68	68

Screw caps DIN GL 18 for thread bottles

Screw caps made of white polypropylene,
with white rubber teat and dropping pipette with bent, spherical tip

Minimum order quantity: 100 pieces per size

Cat. No.	Length dropping pipette	For bottle	Multipack
5459901	60 mm	10 ml	3000
5459902	70 mm	20 ml	3000
5459903	78 mm	30 ml	2500
5459904	90 mm	50 ml	2500
5459905	105 mm	100 ml	2000

Screw caps, urea resin 131.5, with PE-LD sealing insert

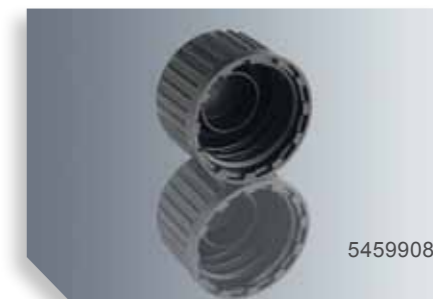
Cat. No.	Colour	Multipack
▶ 5457417	black	1500
5459907	white	1500



Screw caps DIN GL 18 for thread bottles

Screw caps PE-HD, barrel gasket

Cat. No.	Colour	Multipack
5459908	black	2250
5459909	white	2250



Tamper-evident screw caps

Cat. No.	Colour and type	Multipack
5459912	black, made of PE-HD, with dropper insert made of PE-LD of natural colour	5000
5459913	white, polypropylene, with dropper insert UNI 2-02 made of PE-LD of natural colour	1125



Screw caps

Cat. No.	Colour and type	Multipack
5459914	white, made of PE-HD, with dropper insert UNI 1-04 made of white PE-LD	1875
5459915	white, made of PE-HD, with dropper insert UNI 2-02 made of PE-LD of natural colour	1875



Available on demand:

- Screw caps with child-proof lock



- Atomizers



- Screw caps with paint-brush



- Screw caps with spatula





Dropping bottles with pipette

- made of clear glass or amber glass
- conical shoulder
- with clear glass pipette, rubber teat and standard ground joint polypropylene stopper

Cat. No.	Capacity	Unit
Clear glass		
▶ 3611004	50 ml	10
▶ 3611005	100 ml	6
3611006	250 ml	10
Amber glass		
▶ 3611104	50 ml	10
▶ 3611105	100 ml	6
3611106	250 ml	10



Dropping bottles with head stopper

- made of clear glass or amber glass
- round shoulder
- with flat head stopper made of glass
- minimum order quantity: 10 pieces per size

Cat. No.	Capacity	Multipack
Clear glass		
▶ 3610004	50 ml	96
▶ 3610005	100 ml	70
Amber glass		
▶ 3610104	50 ml	96
▶ 3610105	100 ml	70



Storage bottles

- made of polyethylene
- narrow neck
- with screw cap and carrying bail
- with exchangeable tap with 3/4" pipe fitting. The tap is designed for smooth operation and reduces dripping.
- maximum operating temperature: 80 to 90 °C

Cat. No.	Capacity	Height bottle	Ø Bottle	Ø Neck int.
5411912	5 l	335 mm	165 mm	45 mm
5411913	10 l	415 mm	210 mm	55 mm
5411914	25 l	525 mm	280 mm	55 mm
5411915	50 l	605 mm	365 mm	55 mm



▶ This arrow indicates products that are usually available on short notice.

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Bottles with round shoulder

- made of clear glass or amber glass
- with standard ground joint
- with standard ground joint stopper made of glass

Cat. No.	Capacity		Multipack
Narrow neck, clear glass			
3652004	50 ml	NS 14/15	48
3652005	100 ml	NS 14/23	70
3652006	250 ml	NS 19/26	30
3652007	500 ml	NS 24/29	15
3652008	1000 ml	NS 29/32	12
3652009	2000 ml	NS 29/32	6
Narrow neck, amber glass			
3652104	50 ml	NS 14/15	48
3652105	100 ml	NS 14/23	70
3652106	250 ml	NS 19/26	30
3652107	500 ml	NS 24/29	15
3652108	1000 ml	NS 29/32	12
3652109	2000 ml	NS 29/32	6
Wide neck, clear glass			
3653004	50 ml	NS 24/20	40
3653005	100 ml	NS 29/22	48
3653006	250 ml	NS 34/24	30
3653007	500 ml	NS 45/27	15
3653008	1000 ml	NS 60/31	12
3653009	2000 ml	NS 60/31	6
Wide neck, amber glass			
3653104	50 ml	NS 24/20	40
3653105	100 ml	NS 29/22	48
3653106	250 ml	NS 34/24	30
3653107	500 ml	NS 45/27	15
3653108	1000 ml	NS 60/31	12
3653109	2000 ml	NS 60/31	6

Bottle brushes

- natural bristle on galvanised wire
- with 40 mm long front bristles for improved cleaning of the flask's bottom
- wire handle with loop to hang up

Cat. No.	Total length	Head: length x Ø	Unit
▶ 6243015	420 mm	100 x 55 mm	10



▶ This arrow indicates products that are usually available on short notice.



Reagent bottles

- made of clear glass or amber glass
- with standard ground joint and glass stopper

Cat. No.	Capacity		Multipack
Narrow neck, clear glass			
3602004	50 ml	NS 14/15	48
3602005	100 ml	NS 14/23	48
3602006	250 ml	NS 19/26	30
3602007	500 ml	NS 24/29	9
3602008	1000 ml	NS 29/32	12
3602009	2000 ml	NS 29/32	6
Narrow neck, amber glass			
3602104	50 ml	NS 14/15	48
3602105	100 ml	NS 14/23	48
3602106	250 ml	NS 19/26	30
3602107	500 ml	NS 24/29	9
3602108	1000 ml	NS 29/32	12
3602109	2000 ml	NS 29/32	6
Wide neck, clear glass			
3605004	50 ml	NS 24/20	48
3605005	100 ml	NS 29/22	48
3605006	250 ml	NS 34/24	30
3605007	500 ml	NS 45/27	9
3605008	1000 ml	NS 60/31	12
Wide neck, amber glass			
3605104	50 ml	NS 24/20	48
3605105	100 ml	NS 29/22	48
3605106	250 ml	NS 34/24	30
3605107	500 ml	NS 45/27	9
3605108	1000 ml	NS 60/31	12



Reagent bottles, plastic

- made of transparent polypropylene
- autoclavable at 121 °C
- with DIN thread and screw cap



Cat. No.	Capacity	Thread	Height x Ø	Unit
Narrow neck				
5415606	100 ml	GL 18	100 x 52 mm	20
5415607	250 ml	GL 25	132 x 70 mm	20
5415608	500 ml	GL 25	165 x 87 mm	10
5415609	1000 ml	GL 32	202 x 108 mm	10
5415610	2000 ml	GL 32	245 x 131 mm	6
Wide neck				
5416006	100 ml	GL 32	96 x 55 mm	20
5416007	250 ml	GL 45	132 x 73 mm	20
5416008	500 ml	GL 45	172 x 87 mm	10
5416009	1000 ml	GL 63	204 x 108 mm	10
5416010	2000 ml	GL 63	243 x 131 mm	6



Desiccators

Desiccators are suitable for drying and dehydration processes. If supplied with stopcock or valve, they are also suitable for storage under vacuum.

- made of borosilicate glass 3.3 Simax
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- with ground flat flange
- discs are not included. Please order them separately.

Cat. No.	Diameter	Unit
With plastic knob in interchangeable lid		
4201401	100 mm	1
4201403	150 mm	1
▶ 4201405	200 mm	1
▶ 4201406	250 mm	1
▶ 4201407	300 mm	1
With plastic knob and stopcock in interchangeable lid		
4201601	100 mm	1
4201603	150 mm	1
▶ 4201605	200 mm	1
▶ 4201606	250 mm	1
▶ 4201607	300 mm	1
With glass knob in interchangeable lid in compliance with DIN 12491, ISO 13130		
4204201	100 mm	1
4204203	150 mm	1
4204205	200 mm	1
4204206	250 mm	1
4204207	300 mm	1
With NS 24/29 and valve in interchangeable lid in compliance with DIN 12491, ISO 13130		
4204301	100 mm	1
4204303	150 mm	1
4204305	200 mm	1
4204306	250 mm	1
4204307	300 mm	1



New



New

Discs for desiccators

- made of porcelain
- in compliance with DIN 12 911
- with several vent perforations and one central hole

Cat. No.	for desiccator Ø	Unit
6833001	100 mm	1
6833004	150 mm	1
▶ 6833007	200 mm	1
▶ 6833010	250 mm	1
▶ 6833013	300 mm	1



▶ This arrow indicates products that are usually available on short notice.



Aspirator bottles

Aspirator bottles are used to sediment solid or suspended particles in liquid materials. The liquid is filled into the container. After some time, the heavier solid particles deposit at the bottom of the aspirator bottle and the stopcock is opened to release the liquid into a collection flask.

- made of borosilicate glass 3.3 Simax
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- autoclavable
- with standard ground joint stopper made of glass
- with standard ground joint stopcock at bottom

Cat. No.	Capacity	Glass stopper	Stopcock	Unit
3616507	500 ml	NS 19/26	NS 19/26	4
3616508	1 000 ml	NS 24/29	NS 19/26	4
3616509	2 000 ml	NS 29/32	NS 19/26	3
3616512	5 000 ml	NS 45/40	NS 24/29	3
3616513	10 000 ml	NS 50/42	NS 29/32	1
3616515	20 000 ml	NS 50/42	NS 29/32	1

Aquarium jars

- made of soda lime glass
- with ground rim
- with thick walls

Cat. No.	Length x Width x Height	Unit
4204107	100 x 100 x 100 mm	1
4204174	150 x 100 x 100 mm	1
4204119	150 x 100 x 150 mm	1
4204108	200 x 100 x 100 mm	1
4204136	200 x 150 x 200 mm	1
4204145	250 x 180 x 220 mm	1
4204126	300 x 160 x 160 mm	1
4204146	300 x 220 x 240 mm	1
4204155	360 x 230 x 260 mm	1

Dressing jars

- made of soda lime glass
- with loosely overlapping glass cover with knob
- with base

Cat. No.	Height	Diameter	Unit
4205101	100 mm	100 mm	6
4205102	120 mm	120 mm	4
4205103	150 mm	150 mm	4
4205106	200 mm	200 mm	2



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Crystallizing dishes

- made of borosilicate glass 3.3
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- cylindrical shape, with flat bottom

Cat. No.	Ø Ext.	Height	Capacity	Unit
Without spout, with fused rim, DIN 12 337				
4210400	40 mm	25 mm	15 ml	10
4210403	50 mm	30 mm	20 ml	10
▶ 4210405	60 mm	35 mm	40 ml	10
4210407	70 mm	40 mm	50 ml	10
4210408	80 mm	45 mm	90 ml	10
4210409	95 mm	55 mm	200 ml	10
4210410	115 mm	65 mm	380 ml	10
4210411	140 mm	75 mm	650 ml	10
4210413	190 mm	90 mm	1600 ml	4
4210414	230 mm	100 mm	2700 ml	4
With spout, with fused rim, DIN 12 338				
4210500	40 mm	25 mm	15 ml	10
4210503	50 mm	30 mm	20 ml	10
4210505	60 mm	35 mm	40 ml	10
4210507	70 mm	40 mm	50 ml	10
4210508	80 mm	45 mm	90 ml	10
4210509	95 mm	55 mm	200 ml	10
4210510	115 mm	65 mm	380 ml	10
4210511	140 mm	75 mm	650 ml	10
4210513	190 mm	90 mm	1600 ml	4
4210514	230 mm	100 mm	2700 ml	4

Evaporating dishes

- made of borosilicate glass 3.3
- in compliance with DIN 12 336
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- hemispherical shape, with flat bottom
- with spout, with fused rim

Cat. No.	Ø Ext.	Height	Capacity	Unit
4210301	40 mm	18 mm	10 ml	10
4210302	50 mm	25 mm	15 ml	10
4210304	60 mm	30 mm	45 ml	10
4210306	70 mm	35 mm	60 ml	10
4210308	80 mm	45 mm	90 ml	10
4210309	95 mm	55 mm	170 ml	10
4210310	115 mm	65 mm	320 ml	10
4210312	140 mm	80 mm	600 ml	10
4210314	190 mm	100 mm	1500 ml	4

▶ This arrow indicates products that are usually available on short notice.





Information on porcelain

The laboratory porcelain has a low thermal expansion coefficient and therefore a high resistance against thermal shocks. Because of its high mechanical solidity it is resistant against most kind of chemical influences.

Max. operating temperature:	glazed 1100 °C
	unglazed 1350 °C
Acid resistance::	99.99 %
Alkali resistance::	99.96 %
Water absorption::	0 %
Specific gravity:	2.3 to 2.5 g/cm ³

The characteristics of laboratory porcelain as well as the measurements of the products are according to all current standards and meet the latest recommendations of ISO.

All indications of diameter, height and capacity of our porcelain products are approximate and may vary.

Evaporating dishes

- made of porcelain
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- maximum operating temperature: 1100 °C
- glazed inside
- with spout



Cat. No.	Diameter	Height	Capacity	Unit
Flat bottom				
6830401	54 mm	22 mm	22 ml	5
6830403	70 mm	30 mm	62 ml	5
6830408	86 mm	33 mm	93 ml	5
6830413	98 mm	40 mm	154 ml	5
6830416	112 mm	50 mm	265 ml	5
6830420	126 mm	53 mm	330 ml	5
6830426	151 mm	63 mm	620 ml	5
6830432	195 mm	74 mm	1200 ml	1
6830433	254 mm	105 mm	3000 ml	1
Round bottom				
6830610	50 mm	20 mm	20 ml	5
6830615	63 mm	25 mm	30 ml	5
▶ 6830620	80 mm	32 mm	60 ml	5
6830612	81 mm	38 mm	107 ml	5
▶ 6830616	94 mm	42 mm	140 ml	5
6830614	100 mm	40 mm	150 ml	5
6830604	112 mm	47 mm	232 ml	5
6830621	132 mm	55 mm	300 ml	5
6830617	160 mm	64 mm	580 ml	5
6830618	200 mm	80 mm	1000 ml	1
6830622	320 mm	140 mm	6000 ml	1

▶ This arrow indicates products that are usually available on short notice.

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Crucibles

- made of porcelain
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- maximum operating temperature: 1100 °C
- glazed

Cat. No.	Diameter	Height	Capacity	Unit
Low form				
6837002	30 mm	19 mm	5 ml	5
6837005	35 mm	22 mm	10 ml	5
6837007	40 mm	25 mm	17 ml	5
6837009	45 mm	28 mm	21 ml	5
6837012	50 mm	32 mm	34 ml	5
▶ 6837015	60 mm	38 mm	62 ml	5
6837018	70 mm	44 mm	91 ml	5
Medium tall form				
6837105	35 mm	28 mm	12 ml	5
6837108	40 mm	32 mm	20 ml	5
6837112	45 mm	36 mm	30 ml	5
6837115	50 mm	40 mm	45 ml	5
6837119	60 mm	48 mm	80 ml	5
6837123	70 mm	56 mm	120 ml	5
Tall form				
6837207	30 mm	38 mm	15 ml	5
▶ 6837210	35 mm	44 mm	26 ml	5
6837212	40 mm	50 mm	35 ml	5
▶ 6837216	45 mm	56 mm	50 ml	5
6837217	50 mm	62 mm	72 ml	5
6837222	60 mm	75 mm	130 ml	5

Lids for crucibles

- made of porcelain
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- maximum operating temperature: 1100 °C
- glazed

Cat. No.	Ø Lid	For Ø crucible	Unit
6838030	34 mm	30 mm	5
6838035	39 mm	35 mm	5
6838040	44 mm	40 mm	5
6838045	49 mm	45 mm	5
6838050	54 mm	50 mm	5
6838060	64 mm	60 mm	5
6838070	74 mm	70 mm	5

▶ This arrow indicates products that are usually available on short notice.





Funnels acc. to Buechner

- made of porcelain
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks

Cat. No.	Ø Filter	Ø Holes	Total height	Unit
6831539	45 mm	1.0 mm	67 mm	1
6831540	55 mm	1.0 mm	94 mm	1
6831541	70 mm	1.0 mm	99 mm	1
6831542	90 mm	1.5 mm	111 mm	1
6831543	110 mm	1.5 mm	132 mm	1
6831544	125 mm	2.0 mm	137 mm	1
6831545	150 mm	2.0 mm	155 mm	1
6831546	185 mm	2.0 mm	191 mm	1



Combustion boats

- made of porcelain, unglazed
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- maximum operating temperature: 1350 °C
- with loop

Cat. No.	Length x Width x Height	Unit
6836801	90 x 14 x 8 mm	50



Annealing dishes

- made of porcelain, glazed
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- maximum operating temperature: 1100 °C
- low form with spout

Cat. No.	Diameter	Height	Capacity	Unit
6830503	60 mm	14 mm	20 ml	5
6830510	80 mm	20 mm	55 ml	5
6830515	100 mm	25 mm	110 ml	5
6830519	130 mm	30 mm	250 ml	5



Crucible tongs

- made of stainless steel, corrosion-resistant
- double bent
- minimum order quantity: 10 pieces each type

Cat. No.	Total length
6650601	200 mm
6650605	400 mm

Mortars, porcelain

- made of porcelain
- very good chemical resistance
- minimal thermal expansion
- glazed outside, rough inside
- with spout
- pestles are not included. Please order them separately.

Cat. No.	Ø inside	Height inside	Capacity	Unit
▶ 6835105	56 mm	36 mm	30 ml	2
▶ 6835107	63 mm	41 mm	70 ml	2
▶ 6835109	76 mm	45 mm	75 ml	2
▶ 6835112	83 mm	50 mm	110 ml	2
▶ 6835113	90 mm	56 mm	160 ml	1
▶ 6835116	105 mm	64 mm	220 ml	1
▶ 6835118	125 mm	71 mm	400 ml	1
▶ 6835121	139 mm	82 mm	500 ml	1
▶ 6835123	150 mm	90 mm	650 ml	1
▶ 6835126	180 mm	104 mm	1000 ml	1



Pestles

- made of porcelain
- very good chemical resistance
- with rough surface at head

Cat. No.	Diameter	Length	For mortars with Ø	Unit
▶ 6836001	24 mm	115 mm	56 + 63 + 76 mm	2
▶ 6836003	30 mm	135 mm	83 + 90 mm	2
▶ 6836006	36 mm	150 mm	105 + 125 mm	2
▶ 6836009	42 mm	175 mm	139 mm	1
▶ 6836014	55 mm	210 mm	150 mm	1
▶ 6836019	74 mm	250 mm	180 mm	1



Mortars, glass

- made of borosilicate glass 3.3
- rough inside
- with spout
- complete with pestle

Cat. No.	Diameter	Height	Capacity	Unit
4201201	80 mm	60 mm	80 ml	1
4201202	100 mm	75 mm	170 ml	1
4201203	120 mm	90 mm	300 ml	1
4201204	150 mm	110 mm	600 ml	1





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If Parafilm® M comes into contact with foods, the relevant regulations are to be observed. Parafilm® M complies with the provisions of the US FDA Food and Drug Administration when used below 55 °C and observance of GMP (Good Manufacturing Practice).

Parafilm® M Sealing film

No matter whether you wish to seal beakers, Erlenmeyer flasks, weighing bottles or graduated cylinders, the highly elastic and stretchable Parafilm® M laboratory film fits the opening of any vessel. It saves specimens from contamination or evaporating. Furthermore, it prevents fallen over flasks from spilling. Parafilm® M stretches up to 200 % of its original size and clings even around irregular shapes and surfaces.

Cat. No.	Length	Width	Packaging	Unit
7403810	38 m	10 cm	Dispenser	12
7407505	75 m	5 cm	Dispenser	24
7407510	75 m	10 cm	Dispenser	12
7401550	15 m	50 cm	Roll	6

Physical properties:		Chemical resistance:	
Toxicity:	not toxic	Parafilm® M is resistant up to 48 hours against many polar substances, e. g. saline solutions, inorganic acids and alkaline solutions. After that period embrittlement may occur.	
Melting point:	60 °C		
Flash point:	301 °C		
Temperature range (continuous use):	- 45 °C to + 50 °C		
Stretchability:	200 %	Effects of 48 hours of exposure at 23 °C	
Elongation at tear:	300 %		
Gas permeability in 24 hours at 23 °C with 50 % relative humidity:		Acids:	* Brown discoloration
Oxygen O ₂ :	≤ 350 cm ³ /m ²	Hydrochloric acid 36.5 %	resistant
Nitrogen N ₂ :	≤ 105 cm ³ /m ²	Sulphuric acid 98 %	resistant
Carbon Dioxide CO ₂ :	≤ 1100 cm ³ /m ²	Nitric acid 95 %	resistant*
		Alkaline solutions:	
		Sodium hydroxide 22 %	resistant
		Ammonia 28 %	resistant
Water vapour permeability in 24 hours at 37 °C and 90 % relative humidity:	0.8 g/m ²	Saline solutions:	
		Sodium chloride 20 %	resistant
		Potassium permanganate 5 %	resistant*
		Iodine solution 0.1 ml/l	resistant*
Storage:		Organic solvents:	
Parafilm® M can be stored for at least 3 years at a temperature between 7 °C and 32 °C and relative humidity of 50 %.		Methanol	resistant
		Ethanol	resistant
		Isopropanol	resistant
		Diethylether	not resistant
		Chloroform	not resistant
		Carbon tetrachloride	not resistant
		Benzene	not resistant
		Toluene	not resistant



Dispenser for Parafilm® M

For dust-free storing and convenient cutting of sealing film Parafilm® M.

- made of transparent acrylic
- with hinged lid
- with holding device for taking one roll Parafilm® M of 10 cm width or two rolls of each 5 cm width
- efficient cutting wheel is supported by a firm knife guide

Cat. No.	Dimensions	Unit
5838900	120 x 160 x 170 mm	1

► This arrow indicates products that are usually available on short notice.

Filter papers

Suitable for quantitative analysis.

- made of pure cellulose with an alpha cellulose content of almost 100 %
- extremely low ash content (approx. 0.007 %)
- wet-strength
- acid-washed



	388 ● Black spot	389 ○ White spot	391 ● Blue spot
Applications	for coarse and voluminous precipitates such as iron-, aluminium- and chromium hydroxide, Si-determination in steel and pig iron analysis	coarser precipitates such as lead-, iron- and silver sulphide, alcali carbonates, food stuff and soil analysis	fine-grained precipitates such as barium sulphate, metastannic acid, cuprous oxide
Filtration properties	fast filtering wide pores soft, loose structure coarse crystalline	medium fast filtering medium pores medium tight medium crystalline	very slow filtering fine pores very tight very fine crystalline
Filtration velocity	10 s/10 ml	20 s/10 ml	180 s/10 ml
Filtration time (Herzberg)	70 s/100 ml 850 ml/min	150 s/100 ml 375 ml/min	2500 s/100 ml 25 ml/min
Basis weight	84 g/m ²	84 g/m ²	84 g/m ²
Typical pore size (Retention range/ recommended guide)	12 to 15 µm	8 to 12 µm	2 to 3 µm

Cat. No.	Diameter	Grade	Unit
6759115	125 mm	388 ● Black spot	100
6759116	150 mm	388 ● Black spot	100
6759215	125 mm	389 ○ White spot	100
6759216	150 mm	389 ○ White spot	100
6759315	125 mm	391 ● Blue spot	100
6759316	150 mm	391 ● Blue spot	100



Surface protection paper Labsorb

- special paper coated with polyethylene
- ultra-absorbent carrier material
- toxic, infectious, aggressive and radioactive substances are quickly soaked up into the carrier material
- prevents contamination of the surface underneath
- suitable for clinical laboratories as contamination can be prevented by treatment with disinfectants
- ideal for laying out chemical cupboards, trays etc.
- soft character of material reduces the risk of glass breakage

Cat. No.	Grade	Basis weight	Thickness	Sheet	Unit
6723002	601/PE	140 g/m ²	0.22 mm	480 x 600 mm	50





Filter papers

Suitable for ordinary qualitative-technical filtration purposes.

- made of very pure cellulose with a high alpha cellulose content
- low ash content (average content is approx. 0.1 %)
- wet-strength

grade	3 hw	6	292
Similar to Whatman	student grade	114	1
Surface	plain	plain	plain
Filtration properties	medium crystalline	medium crystalline	medium tight
Filtration velocity	20 s/10 ml	15 s/10 ml	50 s/10 ml
Filtration time (Herzberg)	140 s/100 ml 430 ml/min.	70 s/100 ml 850 ml/min.	500 s/100 ml 120 ml/min.
Basis weight	65 g/m ²	80 g/m ²	87 g/m ²
Typical pore size	8 - 12 µm	10 - 13 µm	5 -8 µm



Cat. No.	Diameter	Grade	Unit
Circular filters			
6758809	70 mm	3 hw	100
6758812	90 mm	3 hw	100
6758814	110 mm	3 hw	100
6758815	125 mm	3 hw	100
6758816	150 mm	3 hw	100
6758909	70 mm	6	100
6758912	90 mm	6	100
6758914	110 mm	6	100
6758915	125 mm	6	100
6758916	150 mm	6	100
6759609	70 mm	292	100
6759612	90 mm	292	100
6759614	110 mm	292	100
6759615	125 mm	292	100
6759616	150 mm	292	100

Filter papers

Suitable for ordinary qualitative-technical filtration purposes.

- made of very pure cellulose with a high alpha cellulose content
- low ash content (average content is approx. 0.1 %)
- wet-strength

Cat. No.	Diameter	Grade	Unit
Folded filters			
6716603	125 mm	3 hw	100
6716604	150 mm	3 hw	100
6716605	185 mm	3 hw	100
6716607	240 mm	3 hw	100
6716609	320 mm	3 hw	100
6716703	125 mm	6	100
6716704	150 mm	6	100
6716705	185 mm	6	100
6716707	240 mm	6	100
6716709	320 mm	6	100
6717003	125 mm	292	100
6717004	150 mm	292	100
6717005	185 mm	292	100
6717007	240 mm	292	100
6717009	320 mm	292	100



pH-Indicator strips

- non bleeding
- 100 stripes in a plastic box



Cat. No.	pH range	pH scale
6740501	pH 0-14 (Universal)	0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
6740502	pH 5.0 – 10.0	5.0 - 5.5 - 6.0 - 6.5 - 7.0 - 7.5 - 8.0 - 8.5 - 9.0 - 9.5 - 10.0
6740503	pH 6.5 – 10.0	6.5 - 6.8 - 7.1 - 7.4 - 7.7 - 7.9 - 8.1 - 8.3 - 8.5 - 8.7 - 9.0 - 9.5 - 10.0



New



New

Spirit lamps

- made of soda lime glass
- capacity: approx. 100 ml
- without tubulature
- complete with ground-on cap, cotton wick and socket

Cat. No.		Unit
▶ 4200901	complete	10
Spare parts		
4271200	Socket (metal and natural cork)	10
4271201	Wick	10

Sight glasses

Sight glasses save the eyes from excessive light intensity by absorption of certain lengths of light waves.

- cobalt blue
- thickness: approx. 2.5 mm
- cut edges
- heat resistant up to 80 °C

Cat. No.	Dimensions	Unit
▶ 1800008	50 x 50 mm	10
▶ 1800009	75 x 75 mm	10
▶ 1800010	100 x 100 mm	10

Stirring rods

- made of borosilicate glass 3.3 Simax
- both ends fused

Cat. No.	Length	Diameter	Multipack	Unit
▶ 4902000	150 mm	6 mm	50 x 10	10
▶ 4902001	200 mm	6 mm	50 x 10	10
▶ 4902002	250 mm	7 mm	30 x 10	10
▶ 4902003	250 mm	8 mm	20 x 10	10
▶ 4902004	300 mm	8 mm	30 x 10	10

▶ This arrow indicates products that are usually available on short notice.

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Watch glasses

Watch glasses can be used to cover beakers, Erlenmeyer flasks and others. In addition, they can be used as weighing dishes.

- made of soda lime glass of 3. hydrolytic class
- free of cadmium and lead
- fire-polished edges

Cat. No.	Diameter	Multipack	Unit
1704010	40 mm	30 x 10	10
1705010	50 mm	30 x 10	10
1706010	60 mm	30 x 10	10
▶ 1707010	70 mm	30 x 10	10
▶ 1708010	80 mm	30 x 10	10
▶ 1709010	90 mm	30 x 10	10
▶ 1710010	100 mm	30 x 10	10
1712010	120 mm	30 x 10	10
1712510	125 mm	30 x 10	10
1715010	150 mm	30 x 10	10
1720010	200 mm	10 x 10	10
1725010	250 mm	20 x 5	5

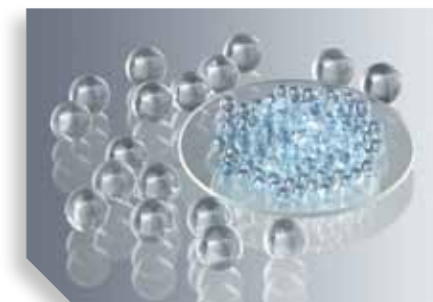
Glass beads

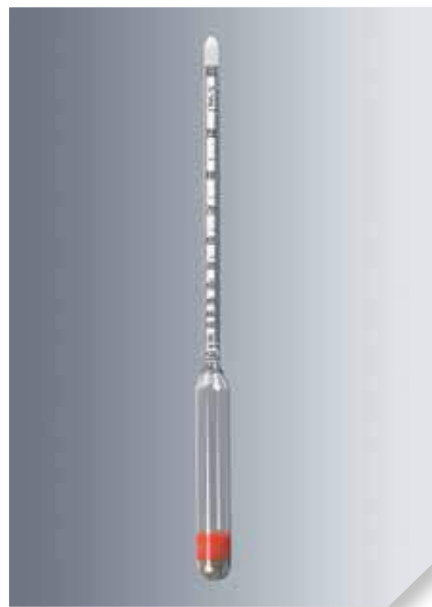
Glass beads are used for mixing or milling. The smaller the beads and the higher their quantity the more intense is the mixing or milling.

- made of soda lime glass
- solid

Cat. No.	Diameter	Unit
In poly bag of 500 g or 1 kg each		
▶ 4901001	1 mm	1 kg
▶ 4901002	2 mm	1 kg
▶ 4901003	3 mm	1 kg
▶ 4901004	4 mm	1 kg
▶ 4901005	5 mm	1 kg
▶ 4901006	6 mm	1 kg
4901007	7 mm	1 kg
4901008	8 mm	1 kg
4901010	10 mm	1 kg
In bags of 20 kg each		
▶ 4904003	3 mm	20 kg
4904004	4 mm	20 kg
4904005	5 mm	20 kg
4904006	6 mm	20 kg

▶ This arrow indicates products that are usually available on short notice.





Alcoholometers

The areometer or alcoholometer is a measuring device for the determination of density or specific gravity of liquids.

- according to Gay-Lussac
- without thermometer
- minimum order quantity: 10 pieces

Cat. No.	Range	Total length
▶ 3104465	0 to 100: 1 %-vol	260 mm



Maxima-Minima thermometers

The Maxima-Minima thermometer allows you to detect fluctuations of temperature and to read them subsequently.

- plastic case and porch in ivory colour
- dimensions: approx. 230 x 60 mm
- division: 1 °C
- with pushbutton for resetting
- with hook for hanging

Cat. No.	Range (Tol. ± 1)	Filling
▶ 3005025	- 38 to + 50 °C	red filling (alcoholic)



Pocket thermometers

- filled system
- measuring capillary with lens front
- division: 1 °C
- colourless
- calibrated for total immersion
- with red (alcohol) filling
- in nickel-plated metal case with bayonet cap and clip

Cat. No.	Range	Length x Ø	Multipack	Unit
3008015	- 35 + 50 °C	145 x 11.5 mm	10 x 1	1
3008017	- 10 + 100 °C	145 x 11.5 mm	10 x 1	1

▶ This arrow indicates products that are usually available on short notice.

Chemical thermometers, enclosed scale

- with circular or prismatic capillary
- with red filling (alcohol)
- scale printed in black color
- division: 1 °C
- calibrated for total immersion
- diameter approx. 7 to 8 mm
- with loop at top
- individually packed in plastic sleeves

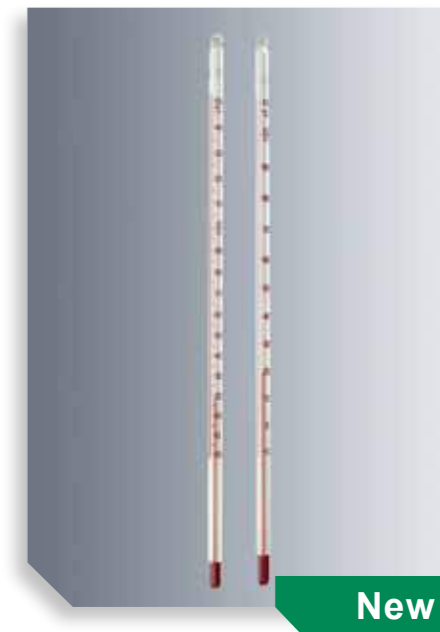
Cat. No.	Range	Length
3003017	- 10 + 100 °C	260 mm
3003018	- 10 + 150 °C	260 mm
3003019	- 10 + 200 °C	300 mm
3003020	- 10 + 250 °C	300 mm



Chemical thermometers, solid stem

- capillary with white back
- with red filling (alcohol)
- with dark amber stain graduation
- division: 1 °C
- calibrated for total immersion
- diameter approx. 6 to 7 mm
- with loop at top
- individually packed in plastic sleeves
- minimum order quantity: 10 pieces each type

Cat. No.	Range	Length
3011014	- 10 + 110 °C	240 mm
3011018	- 10 + 150 °C	240 mm

**New**



Weighing bottles

- made of borosilicate glass 3.3
- in compliance with DIN 12 605
- very good chemical resistance
- minimal thermal expansion
- high resistance to thermal shocks
- with interchangeable cover with standard ground joint
- with frosted marking area

Cat. No.	Height	Diameter	Capacity	Unit
Low form				
4500000	30 mm	35 mm	15 ml	10
4500010	30 mm	50 mm	30 ml	10
4500020	30 mm	80 mm	80 ml	10
Tall form				
4501030	40 mm	25 mm	10 ml	10
4501040	50 mm	30 mm	20 ml	10
4501050	70 mm	35 mm	45 ml	10
4501070	80 mm	40 mm	70 ml	10



New

Aluminium pans

Aluminium pans can be used for moisture analysis in infra-red dryer or as laboratory or weighing dishes. The extraordinarily flat bottom of these pans ensures good standing on the worktop and keeps the samples securely in place.

- made of aluminium, manufactured free of grease or oil

Cat. No.	Ø	Height of rim	Multipack	Unit
▶ 6604900	100,0 mm	7 mm	6x80	80
6604901	94,5 mm	8 mm compatible with Kern	6x80	80
6604902	100,5 mm	7 mm compatible with Mettler/Ohaus	6x80	80



Measuring scoops

These measuring scoops can be used for determination of granular materials and as weighing scoops.

- made of white polypropylene
- with imprint of capacity
- closed tip minimizes risk of losing media

Cat. No.	Capacity	Length	Unit
5831005	100 ml	200 mm	12
5831006	250 ml	260 mm	6
5831007	500 ml	315 mm	6
5831008	1000 ml	385 mm	6



Burners for propane and natural gas

- made of non-corrosive material
- with nickel-plated air regulation
- with needle valve for selection of gas type

Technical data:	Gas pressure range	Consumption max.
Natural gas	18 – 25 mbar	95 l/h
Propane gas	47,5 – 57,5 mbar (use pressure regulator)	33 l/h

Cat. No.	Unit
Acc. to Bunsen	
▶ 6609007	1
Acc. to Teclu	
6609008	1



Wire gauzes

- the wire gauze is saved from corrosion by zinc coating
- with ceramic centre
- asbestos-free
- no hazardous emission when being used
- considered harmless for environment

Cat. No.	Dimensions	Unit
▶ 6613101	12 x 12 cm	10
▶ 6613103	16 x 16 cm	10
▶ 6613105	20 x 20 cm	10



Tripods

- made of zinc-plated steel
- steady and non-slipping stand due to its rubber-coated feet

Cat. No.	Height	Diameter inside
▶ 6615201	180 mm	100 mm
▶ 6615203	210 mm	120 mm





Hand tally counters

- with zero setting by knurled turning knob at the right
- with holding ring
- 4-digits display up to 9999

Cat. No.		Unit
7100000	with plastic housing	1
7100001	with metal housing	1



Stopwatches addition type AMIGO *hanhart* 1882

- mechanical timer
- with interruption and flyback functions
- display range: 30 min, 1/5 sec
- mechanical winding up of the shock-protected lever movement is at back
- pinlever 1 jewel
- with black plastic housing approx. 55 mm diameter
- with lanyard

Cat. No.	Unit
6390100	1



Stopwatches STRATOS 2 *hanhart* 1882

- electronic timer
- with 2 buttons for following functions:
 - start/stop/reset
 - addition/split/dual measuring
- with 7-digits LCD display (heights of numbers: approx. 6.5 mm)
- display range: 9 hours, 59 minutes and 59.99 seconds, 1/100 sec
- with black plastic housing approx. 66 x 70 x 21 mm
- with lanyard
- with battery (button cell SR 54)

Cat. No.	Unit
6390110	1

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Table timers PRISMA 400

hanhart 1882

- interval-up-down timer for various applications in laboratories
- offers 4 different functions:
 - start/stop/reset
 - addition
 - flyback count-down
 - count-down
- with double row LCD display:
 - upper row: 3 digits, lower row: 5 digits
 - double row function window with 6 positions, height of digits approx. 22/8 mm
- display range can be selected as:
 - 999 min, 99/100 min
 - 9 h, 59 min, 59 sec, 1/10 sec
- with adjustable alarm signal
- can be used at temperatures from - 10 to + 55 °C
- with sturdy, white plastic housing
- dimensions: approx. 175 x 130 x 40 / 95 mm
- with battery: Mignon (AA) R 6

Cat. No.	Unit
6390120	1



Table stopwatches Mesotron

hanhart 1882

- quartz controlled stopwatch with analog display
- easy to read, with noctilucant hands
- ergonomic design featuring high stability
- start, stop and reset by means of 2 buttons
- can be used at temperatures from - 10 to + 55 °C
- with sturdy, white plastic housing
- display range:
 - 0-60 seconds and
 - 0-100 minutes
- diameter of dial: 110 mm
- dimensions: approx. 175 x 130 x 40 / 95 mm
- with battery: 1.5 V Mignon (AA)

Cat. No.	Unit
6390130	1



New

Laboratory timers LABOR 3

hanhart 1882

- electronic timer featuring two modes
 - timer mode with 3 timers
 - clock mode showing time, alarm and date
- timer mode allows count down and count up
- display range of timers: 99 hours, 59 minutes, 59 seconds
- clock offering American and European display format
- with LCD display
- with alarm signal
- with magnet to attach the timer to metal surfaces
- with holding clip and stand
- dimensions: approx. 83 x 70 x 22 mm
- with battery (button cell SR 44 1.5 V)

Cat. No.	Unit
6390140	1



New



Universal timers

- electronic timer
- offers 3 different functions:
 - count-down from 1 second to 24 hours
 - count-up from 1 second to 24 hours
 - clock with 24-hours display
- with digital display
- with alarm signal
- with magnet to attach the timer to metal surfaces
- with holding clip and stand
- dimensions: approx. 68 x 53 x 20 mm
- with battery

Cat. No.	Display range	Multipack	Unit
▶ 6350060	23 hours, 59 minutes and 59 seconds	50 x1	1



Digi-Timers

- electronic interval timer
- with 4-digits display for minutes and seconds
- with count-down from 0 to 99:59 minutes
- with alarm signal when reaching "0"
- with magnet to attach the timer to metal surfaces
- with battery (button cell SR 44 1.5 V)

Cat. No.	Display range	Multipack	Unit
▶ 6340050	99 minutes and 59 seconds	50 x 1	1



Interval timers

- mechanical interval timer
- with count-down
- with alarm signal when reaching "0"
- with white plastic casing
- for lying, standing or hanging

Cat. No.	Display range	Multipack	Unit
6311000	0 to 60 minutes	100 x 1	1
6371010	0 to 120 minutes	50 x 1	1

▶ This arrow indicates products that are usually available on short notice.

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Drying racks for laboratory containers



- made of polystyrene
- stable type
- with 72 interchangeable hanging hooks approx. 100 x 15 mm
- suitable for graduated cylinders up to 250 ml or beakers up to 1000 ml
- with draining groove and runoff support
- accessories for wall mounting are supplied with the rack

Cat. No.	Dimensions	Unit
5610300	450 x 630 mm	1



Medicine cups, plastic

- made of highly transparent polypropylene
- content is well visible
- good resistance against pressure or breakage
- with scale with partial divisions of 1 ml
- 75 pieces in a bag, 3750 pieces in a carton

Cat. No.	Capacity	Multipack	Unit
5221700	30 ml	48 x 3750	3750



Medicine glasses

- made of pressed glass
- with pressed-in scale
- with rim
- capacity: approx. 25 ml
- minimum order quantity: 10 pieces

Cat. No.	Multipack
4205200	50





Shakers

A versatile multi-purpose shaker adaptable for different applications thanks to its attachments. You need only 1 shaker basic unit for 5 different applications.

Basic drive S20 with device to hold attachments

- with opto-electronic feed-back speed control
- with timer from 1 to 60 min
- shaking frequency infinitely adjustable from 100 to 1200 r.p.m.
- amplitude: approx. 3 mm horizontal
- for orbital shaking motions
- with CE-mark

Cat. No.	Electric mains	Unit
7204010	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

Attachments for shakers

Plate for Petri dishes, V.D.R.L. slides, microtiter plates, etc.

Small flasks can be placed skid-proof on the rubber like mat.

Cat. No.	Unit
7204011	Dimensions: approx. 410 x 210 x 40 mm Recommended shaking frequency: max. 1100 r.p.m.

Holder for 4 flasks (e.g.: Erlenmeyer or round bottom flasks 500 ml)

The low centre of gravity ensures exceptionally smooth running.

Cat. No.	Unit
7204012	Dimensions: approx. 390 x 230 x 43 mm Recommended shaking frequency: max. 500 r.p.m.

Universal attachment for various flasks

A swing-type tie beam keeps the various flasks securely in place by spring tension. This allows you to work at constant shaking rate.

Cat. No.	Unit
7204013	Dimensions: approx. 310 x 150 x 125 mm Recommended shaking frequency: max. 500 r.p.m.



Attachments for shakers

Holder for up to 36 test tubes, max. 16 mm Ø

Two clamp screws offer the possibility to adjust the position of the tubes from vertical to a 45° declination. Suitable for application with rotations ranging from extremely slow to constantly high.

Cat. No.	Unit
7204014	Dimensions: approx. 190 x 140 x 150 mm Recommended shaking frequency: max. 800 r.p.m.

Support for single-hand shaking of test tubes or round bottom flasks up to 100 ml

The flasks can be held in the hand during shaking process.

Cat. No.	Unit
7204015	Dimensions: approx. 130 x 132 x 40 mm Recommended shaking frequency: max. 1100 r.p.m.

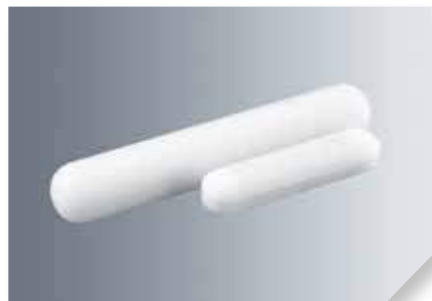
Distilling apparatus for water

- for mono-distillation of tap water
- heating coil made of stainless steel
- glass part made of borosilicate glass 3.3
- distillate: 3.5 l/h
- distillate temperature: 60 °C
- with CE-mark

Cat. No.	Electric mains	Unit
7224002	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.





Magnetic stirring bars

- with magnetic centre and PTFE-coating
- very good chemical resistance
- cylindrical shape
- with smooth surfaces
- magnetic stirring bars with pivot rings find automatically the best turning position

Cat. No.	Length x Ø	Unit
Without pivot ring		
▶ 5700001	7 x 2 mm	10
▶ 5700002	8 x 3 mm	10
▶ 5700004	10 x 3 mm	10
▶ 5700006	10 x 6 mm	10
▶ 5700010	12 x 4,5 mm	10
▶ 5700020	15 x 6 mm	10
▶ 5700027	20 x 6 mm	10
▶ 5700032	25 x 6 mm	10
▶ 5700040	30 x 6 mm	10
▶ 5700047	35 x 6 mm	10
▶ 5700055	40 x 8 mm	10
▶ 5700061	45 x 8 mm	10
▶ 5700065	50 x 8 mm	10
▶ 5700074	60 x 9 mm	10
▶ 5700081	70 x 9 mm	10
▶ 5700085	80 x 9 mm	10
With pivot ring		
▶ 5700427	20 x 6 mm	10
▶ 5700432	25 x 6 mm	10
▶ 5700440	30 x 6 mm	10
▶ 5700447	35 x 6 mm	10
▶ 5700455	40 x 8 mm	10
▶ 5700465	50 x 8 mm	10
▶ 5700481	70 x 9 mm	10

Magnetic stirring bar retrievers

- with magnetic centre and PTFE-coating
- very good chemical resistance
- length: approx. 350 mm
- with smooth surface

Cat. No.
▶ 5700097

▶ This arrow identifies products which are usually available within short time.

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Magnetic stirrers with hotplate

- with 4-digits LED display
- speed infinitely ajustable from 60 to 1600 r.p.m.
- with indication of set temperature, nominal temperature and safety temperature
- with switch-off timer (1 to 999 min.)
- upper part of case and top plate made of stainless steel, lower part of case acid-proof lacquered sheet steel
- direct control of the liquid's temperature is possible by attachable Pt100-probe (probe is not included but available separately)
- with CE-mark

Model M 21

- with hotplate made of stainless steel
- dimensions of hotplate: approx. 135 mm Ø
- temperature range of hotplate: 40 °C to 350 °C
- heating power: 500 W
- dimensions: approx. 210 x 145 x 110 mm

Cat. No.	Electric mains	Unit
7204124	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

Model M 23

- with hotplate made of Ceran®
- dimensions of hotplate: approx. 135 x 135 mm
- temperature range of hotplate: 40 °C to 500 °C
- heating power: 600 W
- dimensions: approx. 210 x 145 x 110 mm

Cat. No.	Electric mains	Unit
7204125	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

Accessories

Cat. No.		Unit
7205220	Pt100-probe for above magnetic stirrers	1
7205221	Rod, stainless steel, 350 x 8 mm Ø, M6	1
7205222	Cross clamp, stainless steel, 30 x 15 mm Ø, M6-M17,5	1
7205223	Probe clamp 0 to 20 mm, shaft 115 x 8 mm Ø	1





Laboratory Stirrers R14

Small and handy laboratory stirrer designed for continuous operation.

- speed infinitely adjustable from 100 to 2000 r.p.m.
- with electronic feed-back speed control
- with quick-action chuck
- can be mounted on any stand by means of a bosshead
- stirring elements, stands and bossheads: Please order them separately
- with CE-mark

Technical specifications:

- torque: 1,4 Ncm
- stirring capacity: 5 litres
- inside diameter of hollow shaft: 5 mm
- with quick-action chuck for stirring paddles with a diameter of 4 mm
- length of mounting support: 190.5 x 16 mm
- power input: 25 Watt
- max. admissible ambient temperature: 5 °C to 40 °C
- max. admissible relative humidity: 80 %
- dimensions: approx. 66 x 120 x 64 mm (L x W x H)
- weight: 1.2 kg

Cat. No.	Electric mains	Unit
7204223	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.



Laboratory stirrers R18

Suitable for stirring media with medium viscosity, even in case of temporary fluctuations in viscosity. Small dimensions, great performance range.

- speed infinitely adjustable from 110 to 2000 r.p.m.
- with opto-electronic feed-back speed control
- can be mounted on any stand by means of a bosshead
- stirring elements, stands and bossheads: Please order them separately
- with CE-mark

Technical specifications:

- torque: 18 Ncm
- stirring capacity: 50 litres
- with hollow shaft for stirring paddles with a diameter of 6, 8 and 10 mm
- length of hollow shaft: 55 mm
- power output: 85 Watt
- power input: 120 Watt
- dimensions: approx. 65 x 108 x 100 mm (L x W x H)
- weight: 2.1 kg

Cat. No.	Electric mains	Unit
7204220	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

► This arrow identifies products which are usually available within short time.

ENRICO BRUNO srl - TORINO - www.enrico-bruno.it

Laboratory stirrers R50

Suitable for reproducible stirring of media of medium viscosity, even in case of fluctuations in viscosity.

- speed infinitely adjustable from 50 to 1600 r.p.m.
- with opto-electronic feed-back speed control
- with its slim shape the instrument is excellently suitable for parallel experiments
- can be mounted on any stand by means of a bosshead
- stirring elements, stands and bossheads: Please order them separately
- with CE-mark

Technical specifications:

- torque: 50 Ncm
- stirring capacity: 100 litres
- with hollow shaft for stirring paddles with a diameter of 6, 8 and 10 mm
- length of hollow shaft: 55 mm
- power output: 85 Watt
- power input: 120 Watt
- dimensions: approx. 65 x 108 x 100 mm (L x W x H)
- weight: 2.1 kg

Cat. No.	Electric mains	Unit
7204219	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.



Laboratory stirrers R50 D with digital display

Suitable for reproducible stirring of media of medium viscosity, even in case of fluctuations in viscosity.

- speed infinitely adjustable from 50 to 1600 r.p.m.
- with opto-electronic feed-back speed control
- with digital display
- with its slim shape the instrument is excellently suitable for parallel experiments
- can be mounted on any stand by means of a bosshead
- stirring elements, stands and bossheads: Please order them separately
- with CE-mark

Technical specifications:

- torque: 50 Ncm
- stirring capacity: 100 litres
- with hollow shaft for stirring paddles with a diameter of 6, 8 and 10 mm
- length of hollow shaft: 55 mm
- power output: 85 Watt
- power input: 120 Watt
- dimensions: approx. 65 x 108 x 100 mm (L x W x H)
- weight: 2.1 kg

Cat. No.	Electric mains	Unit
7204222	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.





New

Laboratory stirrers R100 C

Suitable for reproducible stirring of media of medium to high viscosity.

- display of the set and the real speed
- user programmable limits for speed and torque
- with timer function (1 minute to 99 days, resolution: 1 minute)
- overheat control
- with RS232 interface for up to 255 instruments (daisy chaining)
- with CE-mark
- stirrers, stands and clamps: Please order them separately

Technical specifications:

- speed: 40 to 2000 r.p.m.
- torque: 150 Ncm
- stirring capacity: 200 litres
- with hollow shaft for 1 to 10.5 mm diameter paddles
- power output: 220 Watt
- power input: 300 Watt
- dimensions: approx. 78 x 200 x 230 mm (L x W x H)
- weight: 4.7 kg

Cat. No.	Electric mains	Unit
7204230	230 V / 50 to 60 cps	1

The instruction manual can be downloaded from our website.

Stands U-shape for laboratory stirrers R100 C

- made of acid-proof painted steel
- dimensions feet: approx. 692 x 371 mm (L x W)
- dimensions rod: approx. 27 mm Ø, approx. 100 mm length
- weight: 7.5 kg

Cat. No.	Unit
7205225	1

Special clamps for laboratory stirrers R100 C

- Made of aluminium (ALMg4,5Mn)

Cat. No.	Unit
7205226	1



New

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Blade stirrers

- made of stainless steel
- suitable for laboratory stirrers

Cat. No.	For stirrers	Stirring rod: Length x Ø	Paddle: Width Height	Unit
6641301	R14	175 x 4 mm	38 mm 13 mm	1
6641302	R18 R50 R50 D R100 C	350 x 8 mm	90 mm 15 mm	1



Propeller stirrers

- made of stainless steel
- suitable for laboratory stirrers
- 3-bladed

Cat. No.	For stirrers	Stirring rod: Length x Ø	Paddle: Width Height	Unit
6641303	R18 R50 R50 D R100 C	400 x 8 mm	70 mm 12 mm	1



Bossheads

Bossheads are designed to fasten the overhead laboratory stirrers to the stand.

- made of powder-coated zinc die-casting
- screws made of nickel-plated steel
- suitable for rods up to 16 mm diameter

Cat. No.	Unit
6628000	1



Stands for stirrers

- to be assembled by a base plate and a rod with thread M10
- non-slipping stand due to its rubber-coated feet

Cat. No.	Length x width
6647402	Plate made of powder-coated steel 210 x 130 mm

Cat. No.	Length x Ø
6647601	Rod, zinc-coated, with thread M 10 750 x 12 mm



► This arrow identifies products which are usually available within short time.



Melting point meters MPM

For the determination of the melting point of pulverized substances in glass capillary tubes for identification of the substance.

Principle:

After setting the start temperature (approx. 3 °C less than the expected melting point) the capillary is to be inserted and observed while the instrument is heating up with a heating rate of 1 °C per minute. Report printing is produced by MPM-software supplied for both models.

Model MPM-H3

for visual measuring method by observing the specimen in the capillary through a magnifying glass. After reaching the melting point temperature is shown on the digital display.

Model MPM-HV3

for optional measurements visual (as model MPM-H3) or fully automatic with graphic presentation of the substance's change during the measuring process.

- tracing the report to the device is guaranteed by indicating the device's version with serial number on the report
- supervision of the calibration due date by indication on the record
- matching of the examined substance and the verifying person by mandatory fields in the software
- antiglare lighting of the substance during visual measuring
- digital temperature control
- foil keyboard for easy cleaning
- short manual (German/English) on the instrument
- base is adjustable in height
- with CE-mark
- for use with capillary tubes one-end closed (Marienfeld Cat. No. 2940211) of 80 mm length, 1.4 mm outside and 1.0 mm inside diameter
- supplied with :
 - power cable
 - covering hood
 - USB cable
 - software
 - instruction manual
 - 100 capillary tubes

Technical data:

- electric mains: 88-264 V, AC 0,8 A
- heating: 12 V, DC 25 VA
- heating rate after starting the measurement:
 - 35 °C to 100 °C approx. 2 minutes
 - 35 °C to 300 °C approx. 7 minutes
- cooling-down from 100 °C to 35 °C approx. 3 minutes
 - from 300 °C to 35 °C approx. 9 minutes
- safety class IP 20
- measuring range: up to 360 °C
- accuracy: ± 0.4 °C
- reproducibility: ± 0.3 °C
- magnifying glass: 20 dioptries / threefold
- dimensions: display approx. 85 x 55 mm (width x height)
housing: approx. 320 x 260 x 65 mm (width x height x depth)
- weight: device: approx. 4 kg; base approx. 2.8 kg

Cat. No.	Model	Unit
7232233	Modell MPM-H3 for visual determination (max. 3 capillaries)	1
7232234	Modell MPM-HV3 for visual and fully automatic determination (max. 1 capillary)	1

The instruction manual can be downloaded from our website.

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Swivel roller mixers

Allows the thorough mixing of samples and cell suspensions by wobbling and rolling motions.

- with constant speed of 35 r.p.m.
- with wobbling and rolling motions
- with 5 rolls made of PVC, each with a length of 330 mm
- with CE-mark

Cat. No.	Electric mains	Dimensions	Unit
7204008	230 V / 50 to 60 cps	430 x 180 x 95 mm	1

The instruction manual can be downloaded from our website.



Swivel roller mixers Swap-system

Besides the thorough mixing of samples and cell suspensions this device provides the ability to take out the rolls individually for vessels with larger diameter. This is simply done by loosening a thumb screw for opening the side panel. Thus, the rollers are set free and can be individually removed and placed again.

- speed infinitely adjustable from 10 to 80 r.p.m.
- with wobbling and rolling motions
- with 5 resp. 10 rollers made of PVC, each with a length of 330 mm
- tool-free change of rollers
- with CE-mark

Cat. No.	Electric mains	Dimensions	Unit
With 5 rollers			
7204028	230 V / 50 to 60 cps	436 x 177 x 105 mm	1
With 10 rollers			
7204029	230 V / 50 to 60 cps	436 x 358 x 105 mm	1

The instruction manual can be downloaded from our website.



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New

New

Recommended application range for the bottletop-dispensers VITLAB® simplex²

Reagent	Reagent	Reagent	Reagent
Acetaldehyde	Butyl methyl ether	Ethyl methyl ketone	Phenol
Acetic acid, ≤ 96 %	Calcium carbonate	Formaldehyde, ≤ 40 %	Phenylethanol
Acetone	Calcium chloride	Formamide	Phenylhydrazine
Acetonitrile	Calcium hydroxide	Formic acid	Phosphoric acid, ≤ 85 %
Acetylacetone	Calcium hypochlorite	Glycol (Ethylene glycol)	Phosphoric acid, 85% + Sulfuric acid 98%, 1:1
Acrylonitrile	Chloroacetaldehyde, ≤ 45 %	Glycolic acid, 50%	Piperidine
Acrylic acid	Chloroacetone	Glycerol	Potassium chloride
Adipic acid	Chlorobenzene	Heating oil (Diesel oil)	Potassium dichromate
Allyl alcohol	Chlorobutane	Hexane	Potassium hydroxide
Aluminium chloride	Chloroacetic acid	Hexanoic acid	Potassium permanganate
Amino acids	Chloro naphthalene	Hexanol	Propanol
Ammonium chloride	Chromic acid, ≤ 50 %	Hydrochloric acid, ≤ 37 %**	Propionic acid
Ammonium fluoride	Chromosulfuric acid	Hydroiodic acid, ≤ 57 %**	Propylene glycol (Propanediol)
Ammonium hydroxide, ≤ 20 %	Copper sulfate	Iodine-Potassium iodide solution	Propylene oxide
Ammonium sulfate	Cresol	Isoamyl alcohol	Pyridine
n-Amyl acetate	Cumene (Isopropyl benzene)	Isobutanol	Pyruvic acid
Amyl alcohol (Pentanol)	Cyclohexanone	Isopropanol (2-Propanol)	Salicyl acid
Amyl chloride (Chloropentane)	Decane	Isopropyl ether	Salicylaldehyde
Aniline	1-Decanol	Lactic acid	Sodium acetate
Barium chloride	Dibenzylether	Magnesium chloride	Sodium chloride
Benzaldehyde	Dichlorobenzene	Mercuric chloride	Sodium dichromate
Benzine (Gasoline)	Dichloroethane	Methanol	Sodium fluoride
Benzene	Dichloromethane	Methoxybenzene	Sodium hypochlorite
Benzyl chloride	Diethanolamine	Methyl benzoate	Sodium hydroxide, ≤ 30 %
Benzyl alcohol	Diethylamine	Methyl butyl ether	Sulfuric acid, ≤ 98 %
Biuret reagent	1.2 Diethylbenzene	Methyl formate	Silver acetate
Benzyl amine	Diethylene glycol	Methyl propyl ketone	Silver nitrate
Benzyl chloride	Diethyl ether	Mineral oil (Engine oil)	Turpentine
Boric acid, ≤ 10 %	Dimethylaniline	Monochloroacetic acid, ≤ 50 %	Tetramethylammonium hydroxide
Bromobenzene	Dimethylformamide (DMF)	Nitric acid, ≤ 60 %/**	Toluene
Bromonaphthalene	Dimethyl sulfoxide (DMSO)	Nitrobenzene	Tartaric acid
Butanediol	1.4 Dioxane	Octane	Urea
1-Butanol	Diphenyl ether	Oleic acid	Xylene
Butyric acid	Ethanol	Oxalic acid	Zinc chloride, ≤ 10 %
n-Butyl acetate	Ethanolamine	Perchloric acid	Zinc sulfate, ≤ 10 %
Butyl amine	Ethyl acetate	Petroleum	

*use ETFE/PTFE bottle adapter, **use drying adapter



Dispenser bottles

- made of amber glass
- with ISO thread fitting bottle top-dispensers VITLAB® simplex²
- the plastic coating made of polyethylene increases the resistance against breakage and minimizes the risk of splintering
- with dust protection cap, without pouring ring

Cat. No.	Capacity	Form	Thread	Multipack
Uncoated				
3620606	250 ml	square	GL 32	24
3620607	500 ml	square	GL 32	20
3620608	1000 ml	square	GL 45	24
3620610	2500 ml	round	GL 45	11
Plastic coated (T _{max} 60 °C)				
3620706	250 ml	square	GL 32	
3620707	500 ml	square	GL 32	
3620708	1000 ml	square	GL 45	
3620710	2500 ml	round	GL 45	

Bottletop-dispensers VITLAB® simplex²

Used for dispensing fluids considering the following physical limits:

- temperature from 15 to 40 °C for apparatus and liquids
- density up to 2.2 g/cm³
- vapour pressure up to 600 mbar
- viscosity up to 500 mm²/s
- high-quality materials (PTFE, PFA, FEP, borosilicate glass, platinum-iridium) ensure high chemical resistance against most acids, solvents and bases
- quick, easy and precise volume adjustment
- a positive displacement plunger with a PFA seal minimizes the crystallization of liquids and thus the clogging of the plunger
- variable volume
- scale easily readable
- no drops after tube has been capped
- completely autoclavable at 121 °C (2 bar. T_{max}. 20 min)
- DE-M marked
- simple-to-use calibration function to meet the requirements of testing-apparatus monitoring
- individual serial number on each dispenser
- detailed instruction manual and quality certificate attached
- equipped with GL 45 thread by standard
- with unscrewable ejector valve
- supplied with 3 resp. 5 thread adapters* made of PP, intake tube and mounting tool



Cat. No.	Volume	Graduation	A**≤ ± %	A**≤ ± µl	CV** ≤%	CV** ≤µl	Unit
5330001	0.2 - 2.0 ml	0.05 ml	0.5	10	0.1	2	1
5330004	0.5 - 5.0 ml	0.10 ml	0.5	25	0.1	5	1
5330005	1.0 - 10.0 ml	0.20 ml	0.5	50	0.1	10	1
5330006	2.5 - 25.0 ml	0.50 ml	0.5	125	0.1	25	1
5330008	5.0 - 50.0 ml	1.00 ml	0.5	250	0.1	50	1
5330009	10.0 - 100.0 ml	1.00 ml	0.5	500	0.1	100	1

* Nominal capacity 1 to10 ml:
with adapters GL 25, GL 28, GL 32, GL 38, S 40 and telescope filling tube of 125 to 240 mm length

* Nominal capacity 25 to 100 ml:
with adapters GL 32, GL 38, S 40 and telescope filling tube of 170-330 mm length

** Accuracy (A) and coefficient of variation (CV) acc. to DIN EN ISO 8655-5



Transferpette® S single-channel



The piston-operated pipettes Transferpette® S from BRAND® are the perfect manual pipettes for the most demanding application in the lab. They include all of the features requested by Life Science users.

- variable type
- 4-position volume display with digits, always clearly visible, for highest precision
- large, central pipetting button and separate ejection function
- ergonomic finger rest that adapts to your hand for a relaxed grip
- true one-handed operation - volume setting for both right- and left-handers
- volume-change protection
- completely autoclavable at 121 °C (2 bar), acc. DIN EN 285
- Easy Calibration Technique: readjustment without special tools
- corrosion-resistant piston and ejector for durability
- colour-coding for easy tip selection
- short stroke of only 12.5 mm to reduce the risk of RSI (Repetitive Strain Injury)
- due to the optimized standard design of the tip cone pipette tips of all leading manufacturers can be used
- supplied with rack mount and silicone grease
- DE-M marked according to DIN 12600 with performance certificate
- with CE-mark according to IVD directive 98/79/EC

Cat. No.	Capacity		Division	Accuracy* ≤		CV* ≤		Unit
				± %	± µl	%	µl	
5113654	0.1 -	1 µl	0.001	2.0	0.02	1.2	0.012	1
5113655	0.1 -	2.5 µl	0.002	1.4	0.035	0.7	0.0175	1
5113626	0.5 -	10 µl	0.01	1.0	0.10	0.5	0.05	1
5113627	2 -	20 µl	0.02	0.8	0.16	0.4	0.08	1
5113630	10 -	100 µl	0.1	0.6	0.6	0.2	0.2	1
5113645	20 -	200 µl	0.2	0.6	1.2	0.2	0.4	1
5113635	100 -	1000 µl	1	0.6	6.0	0.2	2.0	1
5113646	500 -	5000 µl	5	0.6	30	0.2	10	1
5113648	1000 -	10000 µl	10	0.6	60	0.2	20	1

CV = Coefficient of variation

* Calibrated to deliver (TD, Ex). Error limits according to the nominal capacity (= max. volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation.
The error limits are within the limits of DIN EN ISO 8655-2.

Bench-top rack for Transferpette® S single-channel and S-8/-12 multi-channel



Cat. No.	For	Unit
5121200	6 pipettes	1

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Transferpette® S -8/-12 multi-channel



The Transferpette® S -8/-12 piston-operated multichannel pipettes are the perfect manual pipettes for the most demanding applications in the lab. They provide all of the features required by users working in the life sciences field. A particular advantage of the new multichannel pipette is the easy operation, e.g. when performing serial pipetting of immunological assays, while serial dilutions or when filling the 96-well plates for cell cultures. The use of new innovative materials results in a pipette that is light, precise, rugged and reliable.

- 4-position volume display, always clearly visible, for highest precision
- large, central pipetting button and separate ejection function
- ergonomic finger rest that adapts to your hand for a relaxed grip
- true one-handed operation - volume setting for both right- and left-handers
- volume-change protection
- completely autoclavable at 121°C (2 bar), acc. DIN EN 285
- manifold can be freely rotated by 360° in either direction
- Easy Calibration Technique: readjustment without special tools
- corrosion-resistant piston and ejector for durability
- colour-coding for easy tip selection
- short stroke of only 12.5 mm to reduce the risk of RSI (Repetitive Strain Injury)
- low strain - special shafts and sealing rings made of FKM and the stepped design of the tip ejector reduce attachment and ejection forces
- individual shafts with seals can be easily unscrewed for cleaning or replacing. This eliminates expense and long outages.
- DE-M marked according to DIN 12600 with performance certificate
- with CE-mark according to IVD-directive 98/79/EC
- items supplied: 2 x TipBox, filled with pipette tips from BRAND®
 - 1 shelf/rack mount
 - 1 reagent reservoir
 - 1 mounting tool
 - 1 set of sealing rings made of FKM and silicon grease



CV = Coefficient of variation

Cat. No.	Capacity	Description	Division	Tip type	Accuracy* ≤ ± %	CV* ≤ %	Unit
Transferpette® S-8							
5114026	0.5 – 10 µl	M8- 10	0.01 µl	nano-cap™/20	1.6	1.0	1
5114028	5 – 50 µl	M8- 50	0.05 µl	200	0.8	0.4	1
5114030	10 – 100 µl	M8-100	0.1 µl	200/300	0.8	0.3	1
5114045	20 – 200 µl	M8-200	0.2 µl	200/300	0.8	0.3	1
5114049	30 – 300 µl	M8-300	0.5 µl	300	0.6	0.3	1
Transferpette® S-12							
5114126	0.5 – 10 µl	M12- 10	0.01 µl	nano-cap™/20	1.6	1.0	1
5114128	5 – 50 µl	M12- 50	0.05 µl	200	0.8	0.4	1
5114130	10 – 100 µl	M12-100	0.1 µl	200/300	0.8	0.3	1
5114145	20 – 200 µl	M12-200	0.2 µl	200/300	0.8	0.3	1
5114149	30 – 300 µl	M12-300	0.5 µl	300	0.6	0.3	1

* Calibrated to deliver (TD, Ex). Error limits according to the nominal capacity (= max. volume) indicated on the instrument, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth, steady operation.
The error limits are within the limits of DIN EN ISO 8655-2.



PLT unit (Pipette Leak Testing unit) for air displacement pipettes



The PLT unit finds smallest leaks within seconds. Daily checks with this leak tester can provide a safeguard during the periods between calibrations. Even smallest leaks are detected and the process reliability for the pipettes is thus significantly improved.

- test limit values for all commercially available single- and multichannel pipettes in the volume range 1 µl to 10 ml are pre-programmed
- test with and without tips to assist in leak source diagnosis
- test results in seconds
- items supplied:
 - one adapter each for testing single-channel (4-channel optional) air-displacement pipettes with tip (mounted) and without tip
 - 2 plugs (for instrument validation)
 - 3 replacement PE filters for the pipette adapters
 - 1 universal AC adapter
 - quality certificate and instruction manual

Cat. No.	Unit
5114300	PLT unit 1



HandyStep® S Manual repetitive Pipette



The ergonomic and optimized design allow relaxed long series pipetting quickly and with high precision. In conjunction with the positive displacement PD-tips the instrument gives you as many as 49 repetitive dispensings steps from a single aspiration.

It is ideal for routine or research applications in diagnostics, microbiology, molecular biology, biochemistry, immunology, environmental analysis and many more.

- for serial pipetting of volumes between 2 µl and 5 ml. A close-tolerance stepping mechanism allows the HandyStep® repetitive pipette to offer precise repetition of the selected volume. With up to 49 dispensing steps from each aspiration, it is ideal for making aliquots of stock liquids.
- the instrument works on the positive displacement principle, making it suitable for routine dispensing, as well as for difficult liquids. Viscous, high density or high vapor pressure liquids can be dispensed while maintaining accuracy and precision.
- double-sided volume table on the back side for quick adjustments
- clear stroke indicator
- one-handed volume adjustment for right-handed and left-handed operators, even with gloves
- ergonomic finger loop to keep the hand relaxed
- separate tip ejector for contact-free ejection
- suitable for PD-Tips from BRAND® and compatible dispenser tips from other manufacturers
- DE-M marked, with performance certificate and serial number
- with CE-mark according to IVD-directive 98/79/EC
- items supplied: 1 shelf/rack mount
 - each 1 PD-Tip 0.1 ml, 1 ml and 10 ml

Cat. No.	Unit
5114200	1

HandyStep® S Manual repetitive Pipette

Volume table with PD-Tips from BRAND®

Depending on the PD-Tip and set number of strokes used up to 59 different sub-volumes arise with many different dosing steps.

Stroke settings Number Steps	1 49	1.5 32	2 24	2.5 19	3 15	3.5 13	4 11	4.5 10	5 9
PD-Tip	Dispensing volume µl								
0.1 ml	2	3	4	5	6	7	8	9	10
0.5 ml	10	15	20	25	30	35	40	45	50
1.0 ml	20	30	40	50	60	70	80	90	100
1.25 ml	25	37.5	50	62.5	75	87.5	100	112.5	125
2.5 ml	50	75	100	125	150	175	200	225	250
5 ml	100	150	200	250	300	350	400	450	500
10 ml	200	300	400	500	600	700	800	900	1000
12.5 ml	250	375	500	625	750	875	1000	1125	1250
25 ml	500	750	1000	1250	1500	1750	2000	2250	2500
50 ml	1000	1500	2000	2500	3000	3500	4000	4500	5000

Accuracy table (HandyStep® S with PD-Tips from BRAND®, 20 °C ,Ex', H)

PD-Tip size	Volume range	Accuracy* ≤ ± % Stroke setting ≙ % of nominal volume 1 ≙ 20% 3 ≙ 60% 5 ≙ 100%			Coefficient of variation* ≤ % Stroke setting ≙ % of nominal volume 1 ≙ 20% 3 ≙ 60% 5 ≙ 100%		
0.1 ml	2 - 10 µl	4.0	2.4	1.6	6.0	3.0	2.0
0.5 ml	10 - 50 µl	2.5	1.5	1.0	2.5	1.5	1.0
1.0 ml	20 - 100 µl	2.5	1.5	1.0	2.0	1.2	0.8
1.25 ml	25 - 125 µl	2.5	1.4	0.9	2.0	1.1	0.7
2.5 ml	50 - 250 µl	1.8	1.1	0.7	1.5	0.9	0.6
5.0 ml	100 - 500 µl	1.8	1.1	0.7	1.5	0.9	0.7
10 ml	200 - 1000 µl	1.8	1.1	0.7	2.0	1.2	0.8
12.5 ml	250 - 1250 µl	1.8	1.1	0.8	3.2	2.0	1.4
25 ml	500 - 2500 µl	1.5	0.9	0.6	3.04	1.5	1.0
50 ml	1000 - 5000 µl	1.5	0.8	0.5	5.0	1.8	1.2

The nominal volume is the maximum adjustable partial volume for each PD-Tip size.

*Error limits refer to the partial volume set relative to the PD-Tip size, obtained at equal temperature (20 °C) of instrument, tip, ambience and dist. water, and with smooth, steady operation. The testing is according to DIN EN ISO 8655-5.

BRAND®, Transferpette®, HandyStep®, as well as the logo design mark depicted are trade marks of BRAND GMBH + CO KG.



* Error limits refer to the nominal volumes and partial volumes relative to the PD-Tip, obtained with instrument and distilled water at equilibrium with ambient temperature at 20 °C, and with smooth operation. The error limits defined in ISO 8655 are not exceeded.

Accuracy Table

HandyStep® electronic BRAND®PD-Tips, 20 °C 'Ex' DE-M marked	Volume range	Subdivision	Nominal volume Accuracy* ≤ ± %				Nominal volume Coefficient de variation ≤ %				
			100%	50%	10%	1%	100%	50%	10%	1%	
0.5 ml	5 µl - 500 µl	5 µl - 100 µl 100 µl - 500 µl	0.1 µl 1 µl	0.9	0.9	1.0	5.0	0.3	0.6	1.0	5.0
1.0 ml	10 µl - 1000 µl	10 µl - 1000 µl	1 µl	0.6	0.9	1.0	5.0	0.3	0.5	0.8	4.0
1.25 ml	12.5 µl - 1250 µl	12.5 µl - 100 µl 100 µl - 1000 µl 1 ml - 1.25 ml	0.5 µl 1 µl 10 µl	0.6	0.6	0.9	5.0	0.2	0.5	0.7	4.0
2.5 ml	25 µl - 2500 µl	25 µl - 1000 µl 1 ml - 2.5 ml	1 µl 10 µl	0.5	0.6	0.7	3.5	0.15	0.3	0.6	3.0
5.0 ml	50 µl - 5000 µl	50 µl - 1000 µl 1 ml - 5 ml	1 µl 10 µl	0.5	0.5	0.7	3.5	0.15	0.4	0.7	3.0
10 ml	100 µl - 10 ml	100 µl - 10 ml	10 µl	0.4	0.5	0.7	3.5	0.15	0.5	0.8	4.0
12.5 ml	125 µl - 12.5 ml	125 µl - 1000 µl 1 ml - 10 ml 10 ml - 12.5 ml	5 µl 10 µl 100 µl	0.5	0.5	0.8	3.5	0.15	0.6	1.4	6.5
25 ml	250 µl - 25 ml	250 µl - 10 ml 10 ml - 25 ml	10 µl 100 µl	0.5	0.5	0.6	3.0	0.15	0.3	1.0	6.0
50 ml	500 µl - 50 ml	500 µl - 10 ml 10 ml - 50 ml	10 µl 100 µl	0.5	0.5	0.5	3.0	0.15	0.4	1.2	9.0

The nominal volume is the maximum volume printed on the PD-Tip.



HandyStep® electronic Repetitive Pipette motorized

Versatile operation with 3 modes:

- **Dispensing (DISP) standard mode:**
A predefined volume is dispensed repeatedly.
 - **Automatic Dispensing (AUTO-DISP):**
The instrument uses its patented learning function to calculate the average time interval between your first three dispensing steps, and automatically continues to work at this rhythm.
 - **Pipetting (PIP):**
Single aspiration / dispense positive displacement function. Ideal for pipetting viscous or volatile fluids.
- variable volume setting from 1 µl to 50 ml
 - patented learning function for individual adjustments of intervals in automatic dispensing
 - patented automatic tip size recognition of the PD-Tips from BRAND® with size encoding
 - separate speed adjustment for filling and dispensing, independently adjustable
 - large display with step-counter
 - pipetting key with ergonomic pointer-finger actuation
 - compatible system will accept most third-party dispenser tips
 - DE-M marked according to DIN 12600 with performance certificate
 - with CE-mark according to IVD directive 98/79/EC
 - items supplied: AC easily replaceable NiMH battery pack, charging dock and AC adapter (charges in as little as 2.5 hours)
one each PD-Tip size 0.5, 1.25, 2.5, 5 and 12.5 ml

Cat. No.	AC adapter			Unit
5113950	Europe (continental)	230 V / 50 cps		1
5113951	UK / Ireland	230 V / 50 cps		1
5113952	USA / Japan	110 V / 50 to 60 cps		1
5113953	Australia	240 V / 50 cps		1



PD-Tips from BRAND® Precision Dispenser Tips

The BRAND® PD-Tips with patented size encoding are the ideal system component for the repetitive pipettes HandyStep® electronic and HandyStep® S. They work on the positive displacement principle and are, therefore, particularly suitable for dispensing of fluids with high viscosity, high vapour pressure etc.

- BRAND® PD-Tips can be used also with compatible, third-party dispensing systems. The automatic size detection option is available in:
BRAND HandyStep® electronic
GILSON Repetman™
RAININ AutoRep™ E
- In addition, they can be used with following systems and others:
BRAND HandyStep® S
RAININ AutoRep™ S and M
EPPENDORF Multipette® 4780 and EDOS® 5221
- made from high-quality materials
(cylinder: PP / piston: PE-HD, 0.1 ml: LCP)
- not autoclavable
- in compliance with ISO 8655
- DE-M marked according to DIN 12600 with batch certificate
- with CE-mark according to IVD-directive 98/79/EC

Cat. No.	Capacity	Unit
Non-sterile		
5107723	0.10 ml	100
5107706	0.50 ml	100
5107721	1.0 ml	100
5107708	1.25 ml	100
5107712	2.50 ml	100
5107713	5.00 ml	100
5107719	10.0 ml	100
5107714	12.5 ml	100
5107715	25 ml	incl. adapter 50
5107716	50 ml	incl. adapter 25
Non-sterile, PD-Tip Set (20 PD-Tips each in sizes of)		
5107730	0.5 · 1.0 · 1.25 · 2.5 · 5 · 10 · 12.5 ml	1

For accuracy table please see HandyStep® electronic.





Pipette tips from BRAND®
palletized in a TipBox



Description of the TipBox:

- made of polypropylene
- stackable
- repeatedly autoclavable at 121 °C (2 bar), acc. to DIN EN 285
- lid can be used as hinged or push-on lid (turn by 180°)
- opening and closing with one hand: The clamping mechanism holds the tip-tray securely in the box
- with transparent window for better all-round visual inspection
- no deflection during tip loading: The tip-tray is fabricated from especially rigid PP
- colored tip-trays with side panel labelling
- usable with a partially loaded multichannel pipette due to the rimless tip-tray border

Content of the TipBox: 96 palletized tips from BRAND®

- made of high-purity polypropylene, free from DIHEMDA and oleamide
- pipette tips up to 1000 µl are free from DNA (≥40 fg), RNase (≥8,6 fg), ATP(≤1 fg) and endotoxins (≥1 pg)
- for single use
- non-sterile
- autoclavable at 121 °C (2 bar), according to DIN EN 285
- with graduation for easy volume control
- tested for BRAND® and most of the pipette types of Gilson®, Thermo Fisher Scientific Finnpiquette®, Eppendorf® and Biohit®.
- with CE-mark according to IVD directive 98/79/EC

Cat. No.	Capacity	Colour of tip	Tip ray	Unit
5220127	0.1 - 20 µl	nature nano-cap™	grey	5 x 96
5220114	0.5 - 20 µl	nature	grey	5 x 96
5220137	1 - 50 µl	nature	grey	5 x 96
5220112	2 - 200 µl	nature	yellow	5 x 96
5220122	5 - 300 µl	nature	green	5 x 96
5220113	50 - 1000 µl	nature	blue	5 x 96



Pipette tips from BRAND®
palletized in a TipRack



Environmentally friendly refill unit for the TipBox: Compared to the filled Tip-Boxes, the amount of waste is reduced by over 20%. Protected in an environmentally compatible packaging of recyclable PET.

- tip-trays are printed on one side with information on the contents
- TipRack contains 96 palletized pipette tips from BRAND®, non-sterile
- 10 TipRacks in a carton

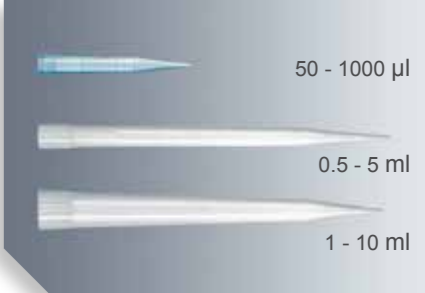
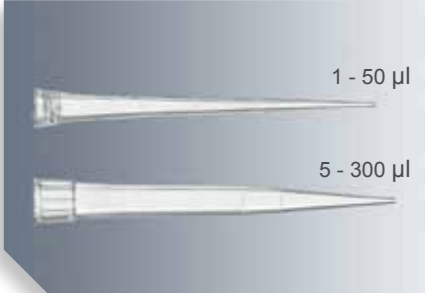
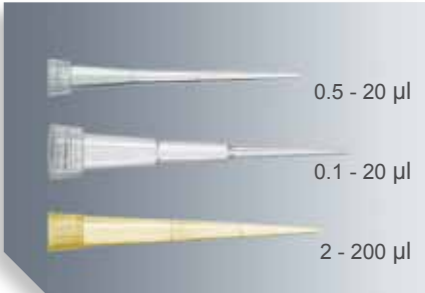
Cat. No.	Capacity	Colour of tip	Tip ray	Unit
5220227	0.1 - 20 µl	nature nano-cap™	grey	10 x 96
5220214	0.5 - 20 µl	nature	grey	10 x 96
5220237	1 - 50 µl	nature	grey	10 x 96
5220212	2 - 200 µl	nature	yellow	10 x 96
5220222	5 - 300 µl	nature	green	10 x 96
5220213	50 - 1000 µl	nature	blue	10 x 96

Pipette tips from BRAND®



- made of high-purity polypropylene, free from DIHEMDA and oleamide
- all pipette tips up to 1000 µl are free from DNA (>40 fg), RNase (>8,6 fg), ATP(<1 fg) and endotoxins (>1 pg)
- high chemical resistance. Ideal for working with solvents
- for single use
- non-sterile
- autoclavable at 121 °C (2 bar), according to DIN EN 285
- with graduation for easy volume control
- up to 1000 µl: tested for BRAND® and most of the pipette types of Gilson®, Thermo Fisher Scientific Finnpiquette®, Eppendorf® and Biohit®.
- The 5 ml tip is exclusively tested for BRAND® and Thermo Fisher Scientific Finnpiquette®.
- The 10 ml tip is suitable for BRAND®, Eppendorf® und Gilson®.
- bulk packed in reclosable polybags (printed with batch number)
- packaged in cartons
- with CE-mark according to IVD directive 98/79/EC

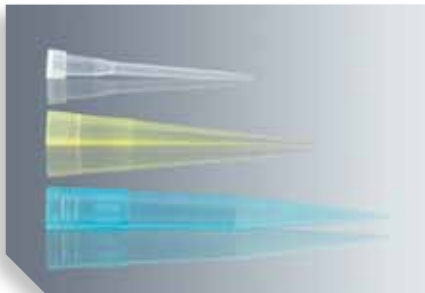
Cat. No.	Capacity	Colour of tip	Length of tip	Unit
5220027	0.1 - 20 µl	nature nano-cap™	37 mm	2 x 1000
5220038	0.1 - 20 µl	nature nano-cap™	37 mm	10 x 1000
5220039	0.5 - 20 µl	nature	46 mm	2 x 1000
5220014	0.5 - 20 µl	nature	46 mm	10 x 1000
5220037	1 - 50 µl	nature	50 mm	2 x 1000
5220040	2 - 200 µl	yellow	50 mm	1 x 1000
5220012	2 - 200 µl	yellow	50 mm	10 x 1000
5220022	5 - 300 µl	nature	53 mm	1 x 1000
5220041	50 - 1000 µl	blue	70 mm	2 x 500
5220013	50 - 1000 µl	blue	70 mm	10 x 500
5220026	0.5 - 5 ml	nature	160 mm	1 x 200
5220028	1 - 10 ml	nature	156.5 mm	2 x 100



Pipette tips

- made of selected and hydrophobic polypropylene, conform to the EC chemicals regulation REACH
- universal fit for use on various single and multiple channel pipettes of leading manufacturers such as Eppendorf®, Brand®, Gilson®, Socorex®, Labsystems®, Finn®, BioHit®
- for single use
- non-sterile
- autoclavable at 121 °C
- with precise opening of the tip
- accurate fitting due to long soft cone
- with modified shape of rim and oval recessed grips
- high accuracy and reproducibility
- easy ejection
- 1000 pieces in a poly bag

Cat. No.	Capacity	Colour of tip	Unit
5220009	0.1 - 20 µl	crystal	10 x 1000
5220000	2 - 200 µl	yellow	25 x 1000
5220001	50 - 1000 µl	blue	10 x 1000





Reaction vessels

- made of polypropylene
- good resistance against temperature and chemicals
- with graduation
- with space for markings
- with attached lid for perfect closure
- lid's membrane can be effortlessly penetrated
- with round vessel's bottom for optimized formation of pellets
- autoclavable
- gamma sterilisable
- for single use
- 1000 pieces in a poly bag

Cat. No.	Capacity	Colour	Unit
▶ 5220501	1.5 ml	nature	8 x 1000

Reaction vessels SafeFit

- made of selected clear polypropylene
- content optimal visible
- High Speed Protected: highest stability for highest centrifugal safety
- special mechanism of closure: preventing unwanted popping up
- reliable and safe closure: suitable for applications under thermal stress
- precise sealing for low evaporation rate
- lid's membrane can be effortlessly penetrated
- with round vessel's bottom for optimized formation of pellets
- good resistance against temperature and chemicals
- with graduation
- with space for markings
- autoclavable
- gamma sterilisable
- for single use
- 1000 pieces in a poly bag

Cat. No.	Capacity	Colour	Unit
5220511	1.5 ml	nature	8 x 1000



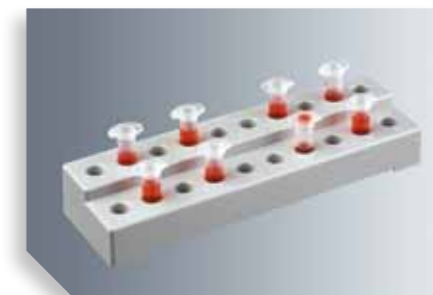
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Stands for reaction vessels

- made of plastic (ABS)
- offers space for up to 20 reaction vessels 1.5 ml

Cat. No.	Multipack
▶ 5660251	60



Racks for reaction vessels

- made of polypropylene
- resistant to temperatures from -80 °C to + 130 °C
- autoclavable up to 121 °C
- with two handle bars
- suitable for reaction vessels 1.5 ml and 2 ml
- approx. dimensions: 228 x 68 x 28 mm
- 5 racks in a carton
- minimum quantity to order: 10 pieces each colour

Cat. No.	Colour	Unit
5610260	yellow	5
5610261	orange	5
5610262	red	5
5610263	violet	5
5610264	blue	5
5610265	green	5
5610266	white	5



New

Storage boxes for vials

- made of polypropylene
- resistant to temperatures from -40 °C to + 130 °C
- autoclavable up to 121 °C
- with 10x10 compartments for dust-free storage of vials up to 12 mm diameter and 46 mm height
- with hinged lid (transparent)
- stackable
- can be used as cryo box
- approx. dimensions: 140 x 140 x 53 mm
- 10 boxes in a carton

Cat. No.	Colour	Unit
5610270	yellow	10
5610271	orange	10
5610272	red	10
5610273	blue	10
5610274	green	10
5610275	transparent	10



New

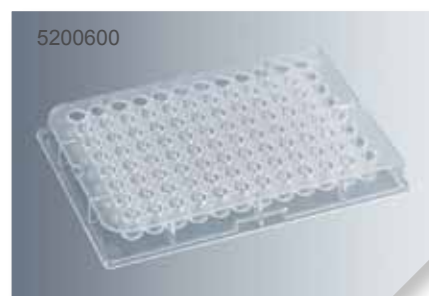
▶ This arrow indicates products that are usually available on short notice.

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Micro titer plates 96-Well

- made of selected, high quality polystyrene
- high optical transparency
- for single use
- machine-sterile, manufactured under conditions with low bacterial count
- suitable for all current standard equipment (e.g. reading and washing devices)
- safe stacking, no danger of slipping
- appropriate gripping surfaces at the side
- frosted surface of the plates prevents errors from extraneous light
- alpha-numerical well identification for easy sample location
- space for identification marking on the side surface
- covers are provided with condensation rings to avoid loss of medium and uneven evaporation
- orientation corners of the covers reduce the risk of cross-contamination
- covers to be ordered separately
- packed in polybags of 5 pieces, in a carton of 100 pieces

Different well-types for different applications:

U-Well

- no edges, easy and clean pipetting
- for +/- evaluations
- especially suitable for agglutination tests

V-Well

- for easy release of the “last drop” from the pipette
- for +/- evaluations
- suitable for storage of samples

F-Well

- for precise optical measurements
- for microscopic applications (Bottom Reading)
- embossment at the bases prevent a scuffing of the optical surface
- extended surface for cell-growth

Cat. No.	Type	Well volume max.	Unit
5200600	96 U-Well	345 µl	100
5200601	96 V-Well	335 µl	100
5200602	96 F-Well	405 µl	100
5200603	Cover		100

Notes:

Addition, stopwatches	154	Caps, for laboratory bottles	124	Filtering flasks	125
Adhesion slides	39	Caps, for test tubes, Labocap	83	Flasks, beaded rim	118
Adhesive slides HistoBond®	33-38	Cassettes, embedding	54-55	Flasks, brushes	119
ADPI, centrifuge tubes	85	Cellcounters, blood picture counter	68	Flasks, Erlenmeyer	116-117
Alcoholometers, Gay-Lussac	150	Centrifuge tubes	82, 85	Flasks, for sugar analysis, Kohlrausch	100
Allihn, condensers	120	Chemical thermometers	151	Flasks, laboratory, ISO	124
Aluminium screw caps for tubes	80	Clamps, for burettes	108	Flasks, standard ground joint	119
Aluminium pans	152	Clamps, for standard ground joints	105	Flasks, tongs	118
Annealing dishes, porcelain	140	Clamps, universal	108	Flasks, volumetric	98-100
Aquarium jars	136	Closure caps for blood gas tubes	78	Flat bottom tubes	80
Aspirator bottles, glass	136	Collars, plastic, for cylinders	96	Forceps for cover glasses	21
Automatic burettes, Dr. Schilling	107	Combustion boats, porcelain	140	FRAP Sandwich set	41
Bang, microburettes	106	Comparator tubes	71	Fuchs-Rosenthal, counting chambers	65
Bases for microburettes Bang	106	Condensers, various	120	Fuchs-Rosenthal, haemacytometers	68
Beads, glass	149	Coplin, staining jars	45	Funnels, Buechner, porcelain	140
Beakers, brushes	115	Counters, hand tally	154	Funnels, separatory	121
Beakers, glass, polypropylene	114-115	Counting chambers, blood cells	64-65	Funnels, various	122
Beakers, tongs	114	Counting chambers, Howard, McMaster	66-67	Gas washing bottles, Drechsel	109
Bellows, rubber, for burettes	105	Counting chambers, Sedgewick Rafter	67	Gay-Lussac, specific gravity bottles	110
Bench-top racks		Counting chambers, special depth (Petroff)	66	Glass beads	149
for Transferpette®S & S -8/-12	172	Counting grids, information	58-62	Glass marker permanent	27
Bijou bottles	53	Cover glasses, for counting chambers		Glass writing diamond	48
Blade stirrers for overhead stirrers	165	and haemacytometers	21	Graduated cylinders, glass & plastic	94-96
Blood counting chambers	64-65	Cover glasses, for Howard chambers	66	Graduated pipettes, glass & plastic	91-92
Blood diluting pipettes	69	Cover glasses, for McMaster chambers	67	Griffin type beakers	115
Blood gas capillary tubes	78	Cover glasses, for Sedgewick Rafter	67	Ground joint stoppers	101, 117
Blood grouping slides	43	Cover glasses, forceps	21	Haemacytometer cover glasses	21
Blood lancets, safety lancets	74-75	Cover glasses, hydrophobic	17	Haemacytometers	68
Blood picture counter Cellcounter	68	Cover glasses, lifter	20	Haematocrit tubes, Wintrobe	79
Blood sedimentation pipettes, Westergren	79	Cover glasses, No. 0, 1.5 and 2	19	Haemoglobin pipettes, Sahli	70
Blood sedimentation stands, Westergren	79	Cover glasses, No. 1	16-17	Haemometers, Sahli	71
Boats, combustion, porcelain	140	Cover glasses, No. 1, ounces	20	Hand tally counters	154
Boerner, staining plates	44	Cover glasses, No. 1.5H	18	HandyStep® electronic	176
Bossheads	108, 165	Cover glasses, thickness 0.4 mm	21	HandyStep® S	174-175
Bottles, aspirator, glass	136	Crucibles & lids, porcelain	139	Hausser/Gedigk, staining jars	46
Bottles, Bijou, McCartney, Universal	53	Crucible tongs, stainless steel	140	Hellendahl, staining jars	44
Bottles, brushes	119, 133	Crystallizing dishes, glass	137	HistoBond®, slides, various	33-38
Bottles, dropping	130, 132	Culture medium tubes	80,82	Histofluid, mounting medium	22
Bottles, filtering, glass	125	Cylinders, graduated	94-96	Holders, for test tubes	84
Bottles, for dispensers	170	Cylinders, mixing	97	Howard, counting chambers	66
Bottles, gas washing, Drechsel	109	Cylinders, Nessler	97	Imhoff, cones and stands	111
Bottles, laboratory (ISO)	124-125	Daffert, burettes	107	Information, counting chambers	58-62
Bottles, oxygen, Winkler	109	Density bottles	110	Information, cover glasses	15
Bottles, pathological	53	Desiccators & discs	135	Information, micro slides	24-25
Bottles, reagent	134	Diamonds, glass writing	48	Information, porcelain	138
Bottles, reservoir, for burettes Pellet	105	Digi-Timers	156	Inoculation loops, various	52
Bottles, round shoulder, glass	133	Dimroth, condensers	120	Interval timers	156
Bottles, specific gravity	110	Discs, for desiccators, porcelain	135	ISO bottles, glass	124
Bottles, spray	127	Dishes, aluminium	152	Jars, aquarium	136
Bottles, storage, polyethylene	132	Dishes, annealing, porcelain	140	Jars, dressing	136
Bottles, thread, glass, polyethylene	126, 128-129	Dishes, crystallizing, glass	137	Jars, ointment	123
Bottles, washing, polyethylene	127	Dishes, evaporating, glass	137	Jars, staining, various	44-46
Bottles, weighing	152	Dishes, evaporating, porcelain	138	Jugs, measuring	115
Bottle-top-dispensers	171	Dishes, Petri	51	Kohlrausch, volumetric flasks	100
Boxes, storing, for slides	50	Dispenser Tips, precision	177	Kolle, needle holders	52
Bridges, staining, plexiglass	47	Dispensers, bottle-top & flasks	170-171	Kuehne, forceps	21
Brushes for beakers	115	Dispensers, for Parafilm® M	144	Labocap, test tube caps	83
Brushes for bottles & flasks	119, 133	Dispensers, for slides	48	Laboratory bottles, ISO	124
Brushes for burettes	108	Distilling apparatus	159	Laboratory marker	27
Brushes for cylinders	96	Drechsel, gas washing bottles	109	Laboratory stirrers,	
Brushes for pipettes	92	Dressing jars	136	R14, R18, R50, R50 D, R100 C	162-164
Brushes for test tubes	84	Drigalski, spatula	52	Laboratory timers	155
Buechner funnels, porcelain	140	Dropping bottles, glass	130, 132	Labsorb, surface protection paper	145
Bunsen burners	153	Dropping bottles, polyethylene	128-129	Lancets, blood, safety	74-75
Bunsen funnels, glass	122	Dropping pipettes	71	LCP Sandwich set	40
Burettes, Bang	106	Drying bench for microscope slides	47	Lead rings, for weighing down	118
Burettes, clamps and stands	108	Drying racks, polystyrene	157	Liebig, condensers	120
Burettes, Daffert	107	Durham tubes	81	Loops, inoculation, various	52
Burettes, Dr. Schilling	107	Embedding cassettes	54-55	Macro pipetting aids	93
Burettes, Mohr	102-103	Embedding medium Histofluid	22	Magnetic stirrers, with hotplate	161
Burettes, Pellet	104	End-to-end micropipettes	76	Magnetic stirring bars & retrievers	160
Burettes, reservoirs	105	Erlenmeyer flasks, various	116-117	Mailing containers, pathology use	48
Buerker, Buerker-Tuerk, counting chambers	65	ESR tubes Westergren	79	Mailing containers, pathology use	53
Burners, all gas type	153	Evaporating dishes, glass	137	Malassez, counting chambers	65
Capillary tubes, blood gas	78	Evaporating dishes, porcelain	138	Malassez-Potain, blood diluting pipettes	69
Capillary tubes, melting point determination	75	Filter funnels	122	Marker, laboratory	27
Capillary tubes, microhaematocrits	77	Filter papers	145-147	Maxima-Minima thermometers	150

McCartney, bottles	53	Pipettes, racks	92	Stirrers, overhead,	
McMaster, counting chambers	67	Pipettes, transfer, polyethylene	72	R14, R18, R50, R50 D, R100 C	162-164
Measuring jugs, polypropylene	115	Pipettes, volumetric, various	90	Stirring bars, magnetic	160
Measuring pipettes, various	91-92	Pipetting aids, various	93	Stirring rods, glass	148
Measuring scoops, polypropylene	152	Pipetting aids, for Pasteur pipettes	72	Stool containers	87
Medicine glasses & cups	157	Pipetting aids, macro, for pipettes	93	Stoppers, standard ground joint	101, 117
Melting point determination tubes	75	Plastic collars, for cylinders	96	Stopwatches	154-155
Melting point meters MPM	166	Plates, microflocculation	44	Storage bottles, polyethylene	128
Micro pipettors	76	Plates, staining, various	43-44	Storage boxes for vials	181
Microburettes, Bang	106	PLT unit	174	Storage boxes for slides	50
Microflocculation plates	44	Pocket thermometers	150	Sugar analysis, flasks	100
Microhaematocrit capillary tubes	77	Pouring rings for laboratory bottles	124	Surface protection paper Labsorb	145
Micropipettes, end-to-end	76	Stoppers, cover glasses No. 1.5H	18	Swivel roller mixers	167
Micropipettes, with circular mark	76	Precision Dispenser Tips	177	Table stopwatches	155
Microscope cover glasses	15-21	Preparation pasteboards, tables	49	Table timers	155
Microscope slides, adhesion	39	Pumps, water jet filter	111	Tables, preparation	49
Microscope slides, blood grouping	43	Pycnometers	110	Teclu burners	153
Microscope slides, boxes of 72 pcs.	28	Racks, drying	157	Test tubes	81-82
Microscope slides, chamfered at 45°	27	Racks, for microscope slides	47	Test tubes, brushes	84
Microscope slides, dispensers	48	Racks, for pipettes	92	Test tubes, caps, Labocap	83
Microscope slides, drying bench	47	Racks, for reaction vessels	181	Test tubes, Durham	81
Microscope slides, HistoBond®	33	Racks, for sedimentation cones	111	Test tubes, holders	84
Microscope slides, HistoBond®,		Racks, for test tubes	84	Test tubes, racks	84
for capillary gap stainers	38	Reaction vessels & stands	180	Test tubes, shakers	83
Microscope slides, HistoBond®+, +SX	34-35	Reagent bottles	134	Test tubes, stands	84
Microscope slides, HistoBond®+M	36	Reservoir bottles for burettes Pellet	105	Test tubes, with screw cap	80, 82
Microscope slides, HistoBond®+S	37	Retrievers, stirring bar	160	Thermometers, chemical, pocket	150-151
Microscope slides, HistoBond®SX	33	Rings, lead, for weighing down	118	Thermometers, Maxima-Minima	150
Microscope slides, preparation boards	49	Rods, stirring, glass	148	Thoma, Thoma new, counting chambers	65
Microscope slides, racks	47	Rubber bellows/bulbs for Pellet burettes	105	Thoma, blood diluting pipettes	69
Microscope slides, special size	29	Rubber bulbs for pipettes	93	Thread bottles, glass, polyethylene	126, 128-129
Microscope slides, standard	26	Rubber teats for dropping pipettes	71	Timers, various	155-156
Microscope slides, storing boxes	50	Rubber teats for Pasteur pipettes	72	Tips, pipette	178-179
Microscope slides,		Rubber tubings for blood diluting pipettes	70	Titration apparatus, Pellet	104
special packing, tropical packing	28	Safety laboratory bottles	125	Tongs, for beakers	114
Microscope slides, UniMark®	30-31	Safety lancets	74	Tongs, for crucibles	140
Microscope slides, with cavities	29	Safety washing bottles	127	Tongs, for flasks	118
Microscope slides, with printed rings	43	Sahli, haemoglobin pipettes	70	Transfer pipettes, polyethylene	72
Microscope slides, with reaction wells	42	Sahli, haemometers	71	Transferpette® S, S-8/-12	172-173
Microtiter plates	182	Schiefferdecker, staining jars	45	Tripods	153
Mixing cylinders	97	Schilling, automatic burettes	107	Tubes, capillary, for microhaematocrits	77
Mohr, burettes	102-103	Scoops, measuring, polypropylene	152	Tubes, centrifuge	82,85
Mortars, glass, porcelain	141	Screw caps for laboratory bottles, ISO	124	Tubes, comparator	71
Mounting medium Histofluid	22	Screw caps for ointment jars	123	Tubes, Durham	81
Mouthpieces for blood diluting pipettes	70	Screw caps for thread bottles	130-131	Tubes, melting point determination	75
MPM Melting point meters	166	Sealing film Parafilm® M	144	Tubes, test, various	81-82
Nageotte, counting chambers	65	Sealing wax plates for capillary tubes	77	Tubes, Westergren	79
Nalgene thread bottles	129	Sedgewick Rafter, counting chambers	67	Tubes, Wintrobe	79
Needle holders, Kolle	52	Sedimentation cones, Imhoff	111	Tubings, for blood diluting pipettes	70
Nessler, cylinders	97	Separatory funnels, conical & Squibb	121	UniMark® microscope slides	30-31
Neubauer, counting chambers	65	Shakers, for test tubes	83	Universal bottles, pathological	53
Neubauer-improved, counting chambers	65	Shakers, laboratory	158-159	Universal clamps	108
Neubauer-improved, haemacytometer	68	Sight glasses, blue	148	Universal timers	156
Ointment jars and screw caps	123	Slide mailers	48	Urinals, polypropylene	87
Oxygen bottles acc. to Winkler	109	Sockets for spirit lamps	148	Urine cups & lids	86
Pans, aluminium	152	Spatula, Drigalski	52	Urinometers, Vogel	87
Parafilm® M, sealing film	144	Special clamps for laboratory stirrers R100C	164	V.D.R.L. plates	44
Pasteboards, preparation	49	Specific gravity bottles	110	V.D.R.L. shakers	158
Pasteur pipettes	72	Spirit lamps	148	Vials, pathological	53
Pathological vials	53	Spray bottles	127	Vogel, urinometers	87
PD-tips, precision	177	Square bottles, plastic	128	Volumetric flasks, various	98-100
Pellet, titration apparatus	104	Square laboratory bottles GL80	123	Volumetric flasks, sugar analysis	100
Permanent marker	27	Squibb, separatory funnels	121	Volumetric pipettes, various	90
Pestles, porcelain	141	Staining bridges, PVC	47	Washing bottles, polyethylene	127
Petri dishes, glass, polystyrene	51	Staining jars, Coplin	45	Watch glasses	149
Petroff, counting chambers special depth	66	Staining jars, Haussser/Gedigk	46	Water distilling apparatus	159
pH-indicator strips	147	Staining jars, Hellendahl	44	Water jet filter pumps	111
Pipette fillers	93	Staining jars, Schiefferdecker	45	Wax plates for capillary tubes	77
Pipette Leak Testing unit PLT	174	Staining jars, with trays	46	Weighing bottles	152
Pipette tips, various	178-179	Staining plates, with cavities, various	43-44	Westergren, tubes & stands	79
Pipettes, blood diluting	69	Stands, for burettes & stirrers	108, 164-165	Wicks for spirit lamps	148
Pipettes, blood sedimentation	79	Stands, for reaction vessels	181	Winkler, oxygen bottles	109
Pipettes, brushes	92	Stands, for sedimentation cones	111	Wintrobe, haematocrit tubes	79
Pipettes, dropping	71	Stands, for test tubes	84	Wire gauzes	153
Pipettes, graduated, various	91-92	Stands, Westergren	79	Writing diamonds	48
Pipettes, micro-, with ring mark	76	Stirrer blades, for overhead stirrers	165		
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IBAN: DE95 7907 0016 0130 0888 00

V.A.T. ID-No.: DE 811479105



● We are located in the south of Germany and in the middle of Europe.

General terms and conditions

1. General, colliding conditions, collateral agreements in writing

- 1.1 These Conditions of Sale are applicable to all our deliveries of goods or services.
- 1.2 In case of discrepancy between the English text and the German text the later shall prevail.
- 1.3 We repudiate other conditions of the buyer without explicit objection.
- 1.4 All other agreements differing from these conditions become valid only after they were confirmed in writing.
- 1.5 For delivery within 5 working days or order values up to 500 €, we reserve the right to ship and invoice immediately without separate order confirmation.

2. Place of performance, court of jurisdiction, governing law chosen

- 2.1 Place of performance for deliveries and payments is our plant in Lauda-Königshofen.
- 2.2 Court of jurisdiction for all litigations is Tauber-bischofsheim. However, we also reserve the right to take legal proceedings against the buyer at his place of domicile.
- 2.3 The formation, interpretation and operation of this contract will be subject to German Law, exclusive of the United Nations International Law of the 11th of April 1980 about contracts for international sale of goods.

3. Offers

- 3.1 Our offers are without engagement.
- 3.2 We reserve the right to make technical alterations to the offered products.

4. Risk, Conditions of delivery

- 4.1 After the goods have left our company the risk of damage passes on to the buyer. In case the goods are to be collected by the buyer at our premises the risks pass on to the buyer after we advised the buyer that the goods are ready for collection.
- 4.2 Deliveries will be effected ex factory.
- Freight, packing and insurance will be borne by the buyer unless we agreed differently in writing.
- 4.3 Partial deliveries are permissible if they are not expressively forbidden.

5. Deliveries of excess and shortage quantities

- 5.1 Deliveries of excess and shortage quantities of ± 15% (for special production ± 25%) of the ordered quantity are permissible and have to be accepted by the buyer. The buyer has to pay for the actually delivered quantity.

6. Taking back packing material

- 6.1 We take back returned packing material in accordance with the effective rules.
- 6.2 The buyer bears all cost for returning and disposal of packing material.

7. Non-acceptance

- 7.1 If the buyer fails to accept the delivery or collect of the goods within 3 days of notice in writing that the goods are ready for delivery the buyer shall be liable for all storage cost and other charges. We are entitled without prejudice to our other rights to resell or otherwise dispose of the goods.
- 7.2 We are entitled to claim damages of at least 25% of the value of the invoice unless we prove a higher damage.

8. Orders on call

- 8.1 The buyer has to call off and accept deliveries in approximately equal quantities the latest within 6 months after the date of order confirmation unless otherwise agreed in writing.

9. Delivery dates

- 9.1 Delivery times quoted are approximate only and begin after all technical details are cleared and agreed payments are received on our account.

- 9.2 We have met the date of delivery as soon as the goods have left our premises or the buyer has been notified that goods are ready for dispatch.

- 9.3 Operating troubles and incidents of force majeure prolong our delivery time accordingly or discharge us from our engagement in case they prevent us from executing an order.

- 9.4 Our default in delivery shall not exist unless the Customer has provided us with a warning and an indicated reasonable additional period of time has lapsed.

- 9.5 We assume the liability for damages caused by default only in case of our purpose or gross negligence. Any liability is limited to the net value of the goods.

10. Custom-made products

- 10.1 Custom-made products which are produced according to the buyer's instructions, drawings or samples which were approved by the buyer cannot be returned to us. All products packed in boxes with non-standard printing or with other than our logo are considered to be custom-made products.
- 10.2 The buyer shall accept surplus or shortage quantities of ± 25% of the ordered quantity. The buyer has to pay for the actually delivered quantity.

11. Tools

- 11.1 Tools, moulds or other equipment remains our property even if the buyer has paid for their cost wholly or in part.

12. Copyright protection

- 12.1 The buyer shall be liable that products manufactured according to its instructions do not infringe any protective rights of any third party.
- 12.2 All damages caused by infringements shall be born by the buyer.

13. Minimum order value and minimum quantities

- 13.1 The minimum order value is 50.- Euro.
- 13.2 For order values less than 200.- Euro we charge an additional fee of 25.- Euro.
- 13.3 Delivery is generally made in packing units according to the valid price-list. Normally, this unit is the minimum order quantity also.
- 13.4 We invoice the prices valid on the date of dispatch.

14. Terms of payment

- 14.1 Our invoices are due in Euro and without any deduction or charges at our account on the date specified in the invoice. Decisive is the date on which the payments are received on our account.

15. Default of payment

- 15.1 If the buyer fails to make any payment on due date, then all his outstanding debits become due immediately and we are entitled to cancel the contract or suspend any further deliveries to the buyer. That applies also for the buyer's checks or drafts which cannot be cashed or in case of the buyer's insolvency.
- 15.2 We have the right to charge the buyer interest on the amount unpaid. Interest will be charged at a rate of 5% per annum above the respective reference interest rate of the European Central Bank. We reserve the right to demand compensation of further cost caused by the buyer in connection with the contract.

16. Return of goods

- 16.1 If we agree to the return of faultless goods the buyer has to pay a handling charge of 15% of the value of the goods (minimum 10 €) as compensation for the handling of the returned goods.

17. Price changes

- 17.1 We reserve the right to adjust our prices in case of unforeseen increases in cost caused by increased cost of material, energy or duties.

18. Reservation of proprietary rights

- 18.1 (Reservation of proprietary rights) The delivered products shall remain our property and title shall be withheld until all products have been fully and unconditionally paid for.

- 18.2 (Prolonged reservation) The buyer may neither consume products delivered conditionally nor combine them with other items to which third parties have rights. The buyer may process or resell the products in the normal course of business only if claims arising from the resale have not been assigned, pledged, attached or otherwise encumbered or are liable to be offset against counterclaims. The buyer shall assign to us in advance, any accounts receivable arising from the sale of products delivered conditionally and of newly constituted products to the amount of the invoice for the products delivered conditionally.
- 18.3 The buyer may have the accounts receivable for products delivered conditionally or under joint ownership as per clauses 18.1 and 18.2 sold or factored only if the Factor is aware of the advance assignment of claims to us and if the Factor transfers payments received directly to us. Pledges or transferences of products or claims assigned to us or to which we retain the title are not allowed. The buyer is required to immediately inform us of any access, confiscation or any other disposition of a third party with regard to products delivered.
- 18.4 We shall be entitled, at any time after a default of payment has been made by the buyer on any payment by the due date, to require the buyer by written notice to place at our disposal any goods to which title has been reserved by us under these conditions any to pay over to us any proceeds of sale in respect of goods which have been sold by the agent for us. Any action so taken by us shall not prejudice our rights either with respect to the goods concerned or any other goods or with respect to our action for the price.
- 18.5 In the case of sales in countries where the right of ownership does not have the same effect as in German law, the goods remain property until all contractual obligations of the sale have been fulfilled, and all payments have been made.
- 18.6 If the right of ownership does not have the same effect as in German law but the reservation of other rights over the goods is permissible, then we have the authority to exercise these rights. The buyer must be prepared to co-operate with any measures we take for the protection of our right of ownership, or the equivalent right to the goods.

19. Warranty

- 19.1 The entire liability of the seller under or in connection with the contract shall not exceed the price of the goods or services.
- 19.2 The buyer's right to warranty for consumables presupposes that the goods have been used, stored and transported duly. In case the buyer does not comply with these duties about handling the goods any warranty expires.
- 19.3 The warranty for consumables ends on the sell-by date given or the latest 12 months after the date of the invoice.
- 19.4 Any claim has to be made in writing detailing exactly the claimed fault.
- 19.5 No warranty is given that the goods are suitable for any particular or special purpose or for use in connection with any equipment unless expressly confirmed by us in writing.

Lauda-Koenigshofen, Germany
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