

Assistent-Precision



Catalogue 33



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PRECISION-GLASS INSTRUMENTS AND DEVICES FOR DOCTOR AND LABORATORY

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Company

For more than 90 years the **Glaswarenfabrik Karl Hecht** produces high-quality precision devices and glass instruments for physician and laboratory. We supply the specialised trade under the well-known trade mark Assistent® through numerous domestic and abroad representatives. Many of them are exclusive distribution partners. Our comprehensive standard programme, e. g. volumetric measuring instruments made of glass and plastics or different liquid handling products, is completed by an extensive range of consumables, disposable articles and electric devices. Due to our long-time experience and our trained and motivated staff's professional competence we are the ideal contact if individual solutions are in demand.

On request we are also producing custom-made products even in small quantities. Since 1995 the quality management system of the Glaswarenfabrik Karl Hecht is certified by TÜV Hessen according to DIN EN ISO 9001. The "Assistent" products are distributed worldwide through the specialist trade (laboratory specialist trade, medical technical specialist trade). Our employees and representatives visit and advise the business partners in Germany, Switzerland, France, Austria and Scandinavia. Thanks to fully developed logistics a fast and reliable delivery is guaranteed. In Germany the supply partly takes place with own vehicles.

History

The enterprise was founded in April 1919 in Unterweißbach-Sitzendorf, Thuringia, by Mr. Karl Hecht and is engaged in the production and distribution of high-quality precision devices and glass instruments for physician and laboratory. In 1945 the relocation with a new start in Sondheim/Rhön took place due to the political situation. The branch with production and warehouse in Bernhausen near Stuttgart was founded in the year 1948. The foundation of an own sales office with warehouse in Kreuzlingen, Switzerland in 1962, (move to larger premises in Altnau in 1971),

an own sales office with warehouse in Igny (near Paris), France in 1967 and eventually in 1972 the foundation of an own sales office with warehouse in Fritzens, Austria, took place in order to be more present in Europe. In 1982 the branch in Bernhausen was abandoned due to better infrastructure. Sondheim/Rhön became head office and only production plant. In 2008 the warehouse in France has been closed, but the sales office for French customers remains. Currently about 85 employees work here under the guidance of Mr. Karl-Heinz Hecht and Mr. Thomas Diepholtz.

Quality management system

In 1995 our quality management system was initially certified. Currently our company is certified according to **DIN EN ISO 9001:2008**.

We strive to constantly improve our processes. The upcoming recertification will take place according to the coming DIN EN ISO 9001:2015.

Authorised economic operator (AEO)

We are authorised economic operator. Therefore we can export our goods in a simplified customs procedure.

Volumetric instruments

cover a wide section of the "Assistant" range. Please refer in particular to the article group "volumetric instruments".

Following information may be useful:

The "**ASSISTENT-PERMANENT**" graduation is subject to regular quality controls i.e. checking of colour-fastness, accuracy etc.

Blue, white and red graduations are fused onto the glass surface and are fired-in. Therefore they are acid-resistant and alkali-proof.

Amber graduation is fused into the glass surface and thereby provides absolute durability.

The most modern calibrating equipment has steadily improved the **accuracy** of the volumetric instruments. Following types are available:

Standard type

1.5 times of the tolerance of class A/class AS for the total capacity (therefore more accurate than class B)

Conformity certified type

Regulation until 31 December 2014:

The mark **HE** (on the instrument) confirms that the device is in accordance with the German Calibration Directive valid until 31.12.2014.

Regulation as of 1 January 2015:

By the mark **DE-M** (followed by the two last digits of the year in which the mark has been affixed) we confirm that the volumetric instruments are in accordance with the valid German Ordinance of Measurement and Verification.

CE type

These products meet the requirements of the EU directive.

GENERAL INFORMATION

Calibration to contain: marked "IN"

The quantity of liquid contained serves as measuring basis for calibration. We recommend rinsing capillary pipettes "calibrated to tip".

Calibration to deliver: marked "EX"

The quantity of liquid delivered serves as measuring basis for calibration. Don't blow out residual liquid (except "blowout pipettes" which are marked as such).

Partial delivery (calibrated between zero at top and lowest mark, not to tip)

The above is applicable as well. Adjust meniscus to lowest mark (e.g. enzyme test pipettes, burettes, volumetric pipettes with 2 marks).

General information for using measuring pipettes and volumetric pipettes and burettes:

Fill burettes 5 mm, measuring and volumetric pipettes 10 mm above the desired mark.

After discharging the liquid to the mark, remove remaining drop from the tip by sliding it off.

Hold pipette in upright position and put tip against inner wall of vessel.

Cut off flow of liquid at approx. 10 mm (pipettes) or 5 mm (burettes) above mark of the desired capacity and let balance discharge on completion of waiting time (as stated in the product description or on the instrument).

The **surface hardened tips** of the pipettes and burettes are calibrated to achieve volumetric accuracy. They must not be damaged.

Measuring pipettes of 5 ml to 25 ml are **with constriction in upper part** (for cotton plug).

Repairs

Repairs will be carried out if the defective device is cleaned, sterilised and decontaminated and in case the repair is economic. We reserve the right to ask for a letter of non-objection (certificate of decontamination).

Ordinance of Measurement and Verification

The new German Ordinance of Measurement and Verification - valid from 1 January 2015 - requires certification of conformity by the manufacturer for volumetric instruments used for medical, pharmaceutical and commercial measurements (e.g. manufacture and testing of drugs).

The regulatory compliance is certified by the marking DE-M.

The conformity guarantees the compliance of the instrument with the German Ordinance of Measurement and Verification and the valid standards.

For details of the procedure please refer to the German Ordinance of Measurement and Verification.

The user is responsible for the application and keeping available of conformity certified instruments.

The certificate of conformity is valid indefinitely unless otherwise specified by the manufacturer.

Conformity certified instruments which have been manufactured before 1 January 2015 can continue to be used.

The conformity of volumetric instruments is certified by "Assistent" directly on the instrument; in case of disposable micropipettes on the inner packing.

For some liquid handling instruments in the directions for use accompanying the instrument.

Medical products law

The medical products law regulates the putting into circulation of products falling under the directive 93/42/EEC and 98/79/EC. The products have to bear the CE mark and may be distributed within the EU with CE mark only.

The manufacturer of the products is responsible for correctly putting into circulation. The manufacturer has to be indicated on the product itself or on the packaging.

We emphasise that the medical products law stipulates the setting up of a system which enables to trace back the origin of the medical products and also to report possible incidents in connection with these products.

		Heat resistance in °C (continuous)	Sterilisation
EPDM	Ethylene propylene diene M-class rubber	-45 up to +150	A, C, D
ETFE	Ethylene-tetrafluoroethylene copolymer	-100 up to +150	A, C, D
FEP	Fluorinated ethylene propylene	-200 up to +205	A, C, D
MF	Melamine-formaldehyde resin	-35 up to +80	A, C, D
NR	Natural rubber	-40 up to +60	C, D
PBT	Polybutylene terephthalate	-45 up to +180	
PC	Polycarbonate	-135 up to +135	A, B, C, D
PE	Polyethylene	LDPE -50 up to +80 HDPE -100 up to +90	B, C, D B, C, D
PMMA	Polymethyl methacrylate	-40 up to +85	B, C
POM	Polyoxymethylene	-40 up to +110	A, B (limited), C, D
PP	Polypropylene	-10 up to +120	A, B (limited), C, D
PS	Polystyrene	-10 up to +70	B, C
PTFE	Polytetrafluoroethylene	-200 up to +260	A, C, D
PVC	Polyvinylchloride	-20 up to +70	C, D
SAN	Styrene acrylonitrile	-20 up to +85	C, D
UF	Urea-formaldehyde resin	0 up to +80	B, C, D

- A** Autoclavable at +121 °C
- B** β/γ rays 25 kGy
- C** Chemical (formalin, ethanol)
- D** Gas (ethylene oxide)

	Alcohol	Aldehydes	Alkali	Ester	Ether	Hydro-carbons	Ketones	Diluted acids	Conc. acids	Oxidising acids
EPDM	√	√	√√	√√	o	√√	√√	√√	√√	o
ETFE	√√	√√	√√	√√	√√	√√	√	√√	√√	√
FEP	√√	√√	√√	√√	√√	√√	√√	√√	√√	√√
MF	√√			o	o	o	o			
PBT	√√	√√	√	√	√√	√	√	√√	√	o
PC	√	o	o	√√	o	o	o			
PE	√	√	√√	√	o	o	√	√	√	o
POM	√	√	√	o	√	√	√	o	o	o
PP	√	√	√	√	o	√	√	√√	√	√
PS	o	o	√	√	o	o	o			
PTFE	√√	√√	√√	√√	√√	√√	√√	√√	√√	√√
PVC	√	o	√√	√	o	o	o			
SAN	o	o	√	√√	o	√	o			
UF	√√	√√	o	√√	√√	√√	√√	√	o	o

√√ Very good resistance

√ Good to limited resistance

o Low to no resistance

Glass qualities

Glass type	Linear expansion coefficient α (20 °C/68 °F; 300 °C/572 °F) DIN ISO 7991	Transformation temperature T_g	Hydrolytic class DIN ISO 719	Acid class DIN 12116	Alkali class DIN ISO 695
AR-Glas® (soda glass)	$9.1 \cdot 10^{-6} \text{ K}^{-1}$	+525 °C/+977 °F	3	1	2
DURAN® borosilicate glass 3.3	$3.3 \cdot 10^{-6} \text{ K}^{-1}$	+525 °C/+977 °F	1	1	2
FIOLAX® (borosilicate glass)	$4.9 \cdot 10^{-6} \text{ K}^{-1}$	+565 °C/+1049 °F	1	1	2

If the product description does not include the glass type, the quality is corresponding to the details given for **AR-Glas®**.

Registered trademarks

AR-Glas®	Schott AG, Germany
Assistent®	Glaswarenfabrik Karl Hecht GmbH & Co KG, Germany
CERAN®	Schott AG, Germany
Combitips®, Combitips® Plus	Eppendorf AG, Germany
D 263®	Schott AG, Germany
DURAN® borosilicate glass 3.3	Schott AG, Germany
Finnpipette®	Thermo Fisher Scientific Oy, Finland
FIOLAX®	Schott AG, Germany
Galinstan®	Geratherm Medical AG, Germany
LABOGAZ®	Application des Gaz sas, France
Lupolen®	Basell nv, the Netherlands
Micro Life®	Roland Birke, Germany
NASARA®	Chang Lim Kim, Republic of Korea
Parafilm®	Bemis Company, Inc., USA
Plexiglas®	Evonik Röhm GmbH, Germany
Polysine®	Gerhard Menzel B.V. & Co. KG, Germany
Sprout®	Heathrow Scientific LLC, USA
SuperFrost®	Gerhard Menzel B.V. & Co. KG, Germany
Viton®	E. I. Dupont de Nemours, USA

All registered trademarks mentioned in the catalogue are registered property of the respective owner.



Blood Test and Urinalysis

Inoculation Loops, Hooks and Needles

for blood coagulation tests and microscopical as well as bacteriological purposes (smears)

Hooks made of nickel-chromium steel wire, stainless

without handle

	Wire thickness	Length angled part	Length
40033010	approx. 0.5 mm	approx. 5 mm	approx. 55 mm



with glass handle

	Wire thickness	Length angled part	Total length
40034010	approx. 0.5 mm	approx. 5 mm	approx. 200 mm



Loops made of nickel-chromium steel wire, stainless

without handle

	Wire thickness	Loop diameter	Length
40035010	approx. 0.5 mm	approx. 3-4 mm	approx. 50 mm



with glass handle

	Wire thickness	Loop diameter	Total length
40036010	approx. 0.5 mm	approx. 3-4 mm	approx. 200 mm



Needles made of nickel-chromium steel wire, stainless

without handle

	Wire thickness	Length
40037010	approx. 0.6 mm	approx. 40 mm





Needles made of nickel-chromium steel wire, stainless, with glass handle

	Wire thickness	Total length
40038010	approx. 0.6 mm	approx. 200 mm



Needle holders according to Kolle

made of aluminium with plastic handle, sterilisable

Diameter approx. 8.5 mm

40039016 Length approx. 16 cm

40039025 Length approx. 25 cm



Inoculation loops with needle, CE

Loop capacity 1 µl, white

Disposable, for inoculating nutrient media, made of polystyrene, gamma-sterilised

Packing: 1000 pieces (50 bags of 20 pieces)

40040010 Length approx. 195 mm



Loop capacity 10 µl, blue

Disposable, for inoculating nutrient media, made of polystyrene, gamma-sterilised

Packing: 1000 pieces (50 bags of 20 pieces)

40041010 Length approx. 200 mm

Blood Lancets

Safety blood lancets Safe Lite II

CE 0459

User safety: Needle is fully shielded before and after use

User convenience: Pre-loaded, button-operated design

Patient safety: Disposable, sterilised by gamma irradiation

Patient comfort: High-quality, ultrasharp tri-bevel needle, high-speed penetration

Efficiency: Different types of points and penetration depths are suitable for most capillary blood requirements

Application: Blood glucose and other diagnostic in-vitro tests

Shelf life: 5 years

Packing unit: 100 pieces

	Specification	Penetration depth	Colour code
40365011	18G blade	approx. 1.8 mm	green
40365012	28G needle	approx. 1.8 mm	violet
40365013	26G needle	approx. 1.8 mm	yellow
40365014	26G needle	approx. 2.4 mm	blue
40365015	21G needle	approx. 1.8 mm	orange
40365016	21G needle	approx. 2.4 mm	pink



Blood lancets

CE 0297

Disposable, gamma-sterilised, individually sealed, no danger of infection, burr-free, optimal, sharp lancet tip, right insertion depth, good blood discharge, handy lancet shaft, good handling, made of stainless steel.

The asymmetrical shape in connection with a material thickness of only 0.16 mm leads to a one-sided cut and therefore decreases the cracking of the wound.

The sensation of pain is reduced because of the minor skin injury and the healing of the wound happens faster.

Packing: 200 pieces/box

40366010 Material thickness approx. 0.16 mm



Blood Diluting Pipettes, Enzyme Test Pipettes and Capillary Pipettes

Blood diluting pipettes

according to Thoma, red, with division

for red corpuscles (erythrocytes) 1:101
 White back, DIN 12750, fused blue graduation
 "ASSISTENT-PERMANENT", 11 marks
 Packing: 10 pieces/box

40355010 Standard type, for export outside EU only

40355710 CE type



according to Thoma, white, with division

for white corpuscles (leucocytes) 1:11
 White back, DIN 12750, fused blue graduation
 "ASSISTENT-PERMANENT", 11 marks
 Packing: 10 pieces/box

40357010 Standard type, for export outside EU only

40357710 CE type



according to Thoma, white, without division

for white corpuscles (leucocytes) 1:11
 White back, DIN 12750, fused blue graduation
 "ASSISTENT-PERMANENT", 3 marks (0.5-1-11)
 Packing: 10 pieces/box

40358710 CE type



Blood diluting pipettes according to Malassez-Potain

fused blue graduation "ASSISTENT-PERMANENT"

Division at 1, 2, 3, 4 and 5

	for dilutions of	Mixture ratio	Type	for blood cells
40359001	1:100, 1:200, 1:300, 1:400, 1:500	1:101	Standard type	red
40359002	1:10, 1:20, 1:30, 1:40, 1:50	1:11	Standard type	white
40359701	1:100, 1:200, 1:300, 1:400, 1:500	1:101	CE type	red
40359702	1:10, 1:20, 1:30, 1:40, 1:50	1:11	CE type	white

40359001 and **40359002** for export outside EU only



according to Thoma, red, without division

for red corpuscles (erythrocytes) 1 : 101

White back, DIN 12750, fused blue graduation "ASSISTENT-PERMANENT"

40356710 CE type



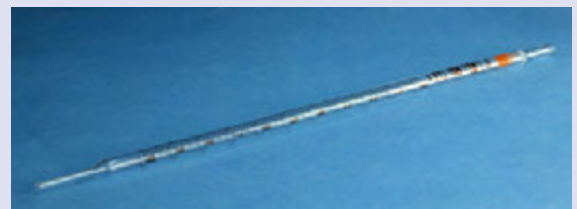
Enzyme test pipettes

Conformity certified

Clear glass, with elongated, strong tip, precision type, for partial delivery (not calibrated to tip), calibrated to deliver (Ex), short delivery time, zero point at top, main points, fused amber graduation "ASSISTENT-PERMANENT", length approx. 35 cm, amber. Available with individual certificate on request (against extra charge). Packing: 10 pieces/box

	40545718	40545724	40545730	40545736	40545760
Division	0.01	0.01	0.02	0.05	0.1
Capacity	0.5 ml	1 ml	2 ml	5 ml	10 ml
Colour code	2 x yellow	yellow	black	red	orange
Tolerance	5 µl	7 µl	10 µl	30 µl	50 µl

40545718 in addition to DIN, not conformity certified, does not meet the requirements of the standard





Accessories for blood pipettes

Mouthpieces

	Material	Version
40360001	Polystyrene	red
40360002	Polystyrene	milk-white



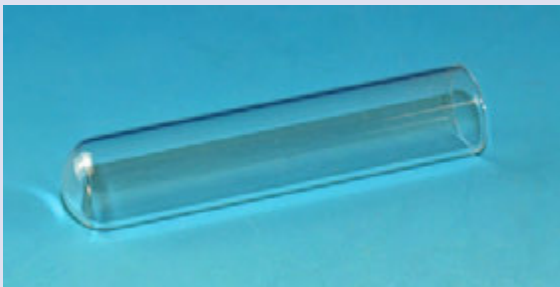
Mouthpieces with silicone tubing

Length approx. 150 mm

	Material	Version
40361001	Polystyrene	red
40361002	Polystyrene	milk-white

Pipetting by mouth is prohibited according to current regulations. We reject any kind of product liability in case of using mouthpiece with rubber tubing.

We recommend our pipetting aids no. 40558010 and 40558001.



Capillary pipettes and accessories for prothrombin determination

Glass tubes for coagulation

with round bottom, without rim, clear glass

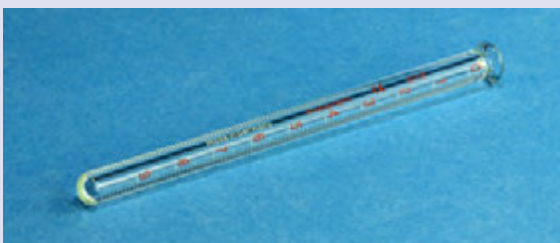
	Diameter	Length
40514020	approx. 12 mm	approx. 55 mm



Pipettes, clear glass, with rubber teat

Spare rubber teat: no. 42620010

40514030 1 mark each at 0.5 and 1.0 ml



Hematocrit tubes according to Wintrobe, CE

for determination of the volume of blood corpuscles, fused white graduation "ASSISTENT-PERMANENT", clear glass, double series in different colours white/red

40535010 Division 0-105 : 1 mm

Blood Sedimentation Apparatus and Accessories

Blood sedimentation apparatus

Stainless steel, MACRO

with tilting device for rapid sedimentation

Complete with:

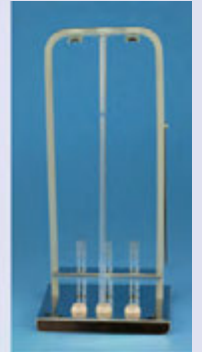
Blood sedimentation pipettes no. 40380010,
protecting caps for pipettes,
blood mixing tubes with rubber stoppers no. 40379010,
special rubber caps no. 40377015
directions for use in an individual carton.

Pipettes with fused graduation "ASSISTENT-PERMANENT".

40367003 with 3 pipettes

40367005 with 5 pipettes

40367010 with 10 pipettes



Plexiglas®, MACRO

Stable model, with tilting device for rapid sedimentation (3 and 5 tests only). With marking area.

Complete with:

Blood sedimentation pipettes no. 40380010,
Senkograd olives according to Dr. Schütz no. 40377014,
blood mixing tubes with rubber stoppers no. 40379010
directions for use in an individual carton.

Pipettes with fused graduation "ASSISTENT-PERMANENT"

40377003 with 3 pipettes

40377005 with 5 pipettes

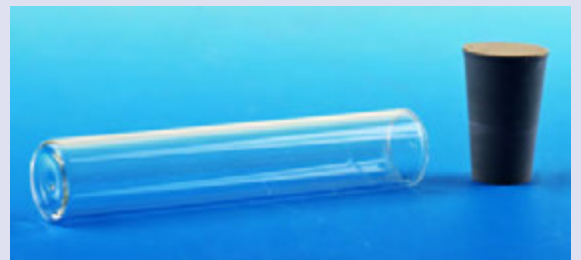
40377010 with 10 pipettes



Blood mixing tubes

Dimensions approx. 60 x 11/12 mm, suitable for all blood sedimentation apparatus

40379010 with rubber stopper



Pipettes and accessoires

Special rubber caps

to be put on the pipette tip for filling by an insertion of a syringe needle. The cap can be used 10 to 20 times, closes automatically after insertion. Cleaning by rinsing in water.

40377015 Dimensions approx. 15 x 0.75 mm



Rubber olives "Senkograd"

for filling of pipettes by puncturing with syringe - air bubbles are avoided. No aspiration, no valve. Fine adjustment of zero point by slightly turning the olive. Safe transport of filled pipette, easy cleaning of rubber olive by rinsing in water, reusable.

40377014 according to Dr. Schütz



Blood sedimentation pipettes according to Westergren-Katz, CE

DIN EN ISO 13079, clear glass, fused blue graduation "ASSISTENT-PERMANENT", macro method, division 0-200 mm : 1 mm

Packing: 10 pieces/box

Amber graduation is also available.

40380010 Length 300 mm

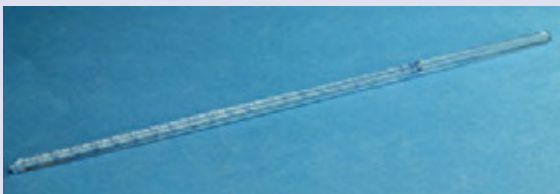
40380015 Length 305 mm



Blood sedimentation pipettes, micro, CE

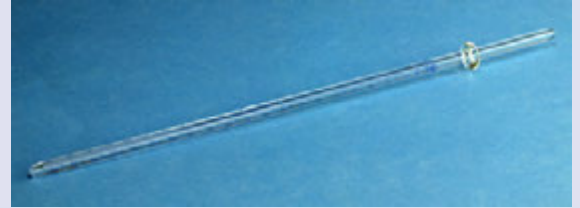
Clear glass, fused blue graduation "ASSISTENT-PERMANENT" Amber graduation is also available.

	Division	Packing/box	Length
40382010	0-200 : 1 mm	10 pieces	300 mm



Blood sedimentation pipettes according to Westergren-Adler, CE with shoulder

40385010	
Division	0-200 : 1 mm
Distance between tip+lower edge of shoulder	approx. 240 mm
Total length	approx. 300 mm



Brushes for Westergren pipettes

40388001 Dimensions approx. 410 x 70 x 4 mm



Suction rubber caps

for placing on top of the blood sedimentation pipette (macro or micro).

Blood is drawn from the mixing tube up to the zero mark of the pipette by turning the moistened suction rubber cap.

Filled pipette with attached suction rubber cap at top is fit in through crossbar opening of Plexiglas® apparatus onto rubber pad at base and is fixed by tightening screw. When drying pipettes, fix them in same way, but tips should not touch pad.

40389010 Capacity approx. 2 ml



Blood Test Devices

Hemometers

in solid case

with 2 glass colour standards, for hemoglobin examinations according to the Sahli method (hydrochloric acid hematine). Measuring tubes and Sahli pipettes with fused graduation "ASSISTENT-PERMANENT" with directions for use

consisting of:

Measuring tube no. 40457010
 Brush no. 40458010
 Stand no. 40459010
 Sahli pipette no. 40460010
 Mouthpiece with rubber tubing no. 40361002
 Bottle with screw cap no. 41314010
 Glass rod no. 40470010
 Dropping pipette no. 40471010

Pipetting by mouth is prohibited according to current regulations. We reject any kind of product liability in case of using mouthpiece with rubber tubing.

We recommend our pipetting aids no. 40558010 and 40558001.

40455010 for export outside EU only



in cardboard box

with 2 glass colour standards, for hemoglobin examinations according to the Sahli method (hydrochloric acid hematine). Measuring tubes and Sahli pipettes with fused graduation "ASSISTENT-PERMANENT" with directions for use

consisting of:

Measuring tube no. 40457010
 Brush no. 40458010
 Stand no. 40459010
 Sahli pipette no. 40460010
 Mouthpiece with rubber tubing no. 40361002
 Bottle with screw cap no. 41314010
 Glass rod no. 40470010
 Dropping pipette no. 40471010

Pipetting by mouth is prohibited according to current regulations. We reject any kind of product liability in case of using mouthpiece with rubber tubing.

We recommend our pipetting aids no. 40558010 and 40558001.

40456010 for export outside EU only



Hemometer measuring tubes with gram scale

g/dl = grams of hemoglobin in 100 ml blood

40457010 Length approx. 120 mm



Hemometer measuring tubes with double scale

Double scale = gram scale g/dl and hemometer units "HE"
Length approx. 120 mm

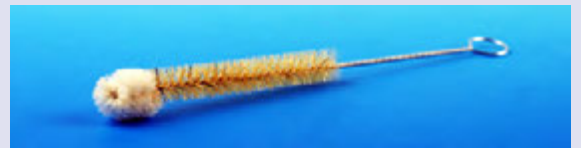
40457002 16 g/dl = 100 HE



Brushes for hemometer measuring tubes

with cotton tip

40458010 Dimensions approx. 140 x 60 x 9 mm



Hemometer stand

with 2 glass colour standards and plate made of frosted glass,
without measuring tube

40459010 Hemometer stand



Hemometer stirring rods

Clear glass

40470010 Dimensions approx. 140 x 3 mm Ø



Hemometer dropping pipettes

Clear glass

	Wall thickness	Dimensions
40471010	approx. 0.9 mm	approx. 140 x 6 mm Ø





Hemoglobin pipettes

according to Sahli, 20 µl, conformity certified, CE

White back, fused amber graduation "ASSISTENT-PERMANENT", calibrated to contain = In, (hemometer pipettes)
Available with individual certificate on request (against extra charge).

	Tolerance	Packing/box	Length
40460710	0.4 µl	10 pieces	approx. 12.5 cm



according to Sahli, 20 µl, for export outside EU only

Standard type, white back, fused blue graduation "ASSISTENT-PERMANENT", calibrated to contain = In, (hemometer pipettes)

	Tolerance	Packing/box	Length
40460010	0.4 µl	10 pieces	approx. 12.5 cm



Blood counting pad

according to Schilling

Useful form for daily practice in the laboratory

40467010 50 blank forms



Blood capillaries

for determination of the coagulation time, for blood typing and similar purposes, cut ends

Packing: 100 pieces/plastic tube

40560010 Length approx. 90 mm



Nissl tubes

for the volumetric determination of fibrin, fused blue graduation "ASSISTENT-PERMANENT", capacity approx. 3 ml, with directions for use - "heat fibrin according to Schulz"

41145010 Packing: 3 pieces/box

Pipetting device

Simple to clean, can be used again
Sterilisable up to +134 °C/+273.2 °F

40559010 with interchangeable receivers for microbiological analyses



Fermentation saccharometer

according to Dr. Einhorn with measuring tube

Fused graduation "ASSISTENT-PERMANENT" in ml and % for gas and sugar
Packing: Each in a box

41370010 Graduation white



Measuring tube

for above fermentation saccharometer
Fused amber graduation "ASSISTENT-PERMANENT"

41370020 Mark at 10 ml





Tubes for urinalysis

Clear glass, U-form, with stem and circular base
41375010 Height approx. 135 mm



Micropipettes and Capillaries

Volume capillaries, disposable

calibrated to contain from end to end, conformity certified, CE, with capillary holder no. 40553001 (short tube with rubber teat)
 250 pieces per pack - 4 packs in a carton
 Accuracy $\leq \pm 0.5\%$

Filling and discharging can be effected with or without capillary holder.

Heparinised volume capillaries are also available (all sizes) on order of adequate quantities.

	Capacity	Precision
40551003	1 μl	$\leq 1.5\%$
40551006	2 μl	$\leq 1\%$
40551012	5 μl	$\leq 1\%$
40551015	10 μl	$\leq 1\%$
40551018	20 μl	$\leq 1\%$
40551021	25 μl	$\leq 1\%$
40551024	50 μl	$\leq 1\%$
40551027	100 μl	$\leq 2\%$

40551003 and **40551006** not conformity certified



Capillary holder

with rubber teat and stopper

40553001 Length of glass tube approx. 35 mm

Disposable capillary pipettes according to Prof. Delbrück, CE

conformity certified, calibrated to contain = In from end to end, heparinised

Filled pipette is being emptied in reaction tube by shaking.

Length approx. 30.5 mm, precision $\leq 1\%$, accuracy $\leq \pm 0.5\%$

Packing: Tube of 100 pieces

40554020 Capacity 20 μl

40554050 Capacity 50 μl



Micropipettes with ring mark

Disposable, CE

Calibrated to contain = In, conformity certified

Packing: 250 pieces/pack - 4 packs/carton

(except 200 μl : 200 pieces/pack)

Accuracy: Difference between mean and nominal value in %

Precision: Percentage of standard deviation in relation to average

Tolerance: Difference between upper and lower limit of admissible deviation

The tolerance is guaranteed by statistical quality control.

Pipetting by mouth is prohibited according to current regulations. We reject any kind of product liability in case of using mouthpiece with rubber tubing.

We recommend our pipetting aids no. 40558010 and 40558001.

	Capacity	Colour code	Precision	Accuracy
40555003	1-2-3-4-5 μl	white	$\leq 0.6\%$	$\leq \pm 0.3\%$
40555006	10 μl	orange	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555009	20 μl	black	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555012	20 + 40 μl	2 x red	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555015	25 μl	2 x white	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555018	40 μl	2 x red	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555021	50 μl	green	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555024	50 + 100 μl	blue	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555027	100 μl	blue	$\leq 0.5\%$	$\leq \pm 0.25\%$
40555030	200 μl	red	$\leq 0.5\%$	$\leq \pm 0.25\%$

40555003 Mark at 5 μl is conformity certified

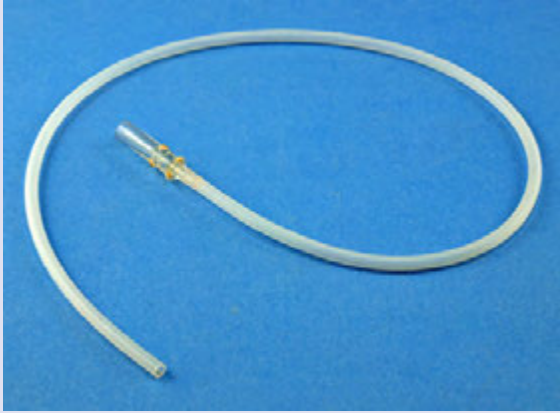
Pipetting aids

Spare adapter made of PVC

Transparent, resistant to steam sterilisation at $+121\text{ }^{\circ}\text{C}/+249.8\text{ }^{\circ}\text{F}$

40557001 for article no. 40558010





Spare adapter made of PVC, with silicone tubing

Adapter and tubing resistant to steam sterilisation at +121 °C (+249.8 °F), 2 bar, for article no. 40557010, 3 pieces/pack

40557002 Length approx. 500 mm



Spare suction bellows made of silicone

Autoclavable at +121 °C/+249.8 °F, 3 pieces/pack

40558002 for Micro-Pipex no. 40558001



Pipetting aid "micro-classic"

for pipetting with disposable micropipettes and other small pipettes up to approx. 1 ml, autoclavable at +121 °C/+248.8 °F (2 bar)

Most suitable for working with a microscope because of the advantageous, right-angled position of the pipette.

Very easy to handle.

The pipetting aid may not be used for capillaries calibrated to contain end to end!

40558010 with adapter and tubing



Pipetting aid Micro-Pipex

Cone Ø max. 5 mm, autoclavable at +121 °C/+249.8 °F

Contaminated disposable micropipettes up to 50 µl can be dropped without touching because of the releasing device, which is integrated in the appliance.

The pipetting aid may not be used for capillaries calibrated to contain end to end!

40558001 for pipetting liquids by using disposable micropipettes with a ring mark as well as many pipettes up to approx. 1 ml

Hematocrit capillaries and sealing material, CE

Micro hematocrit capillaries, heparinised

Disposable, fire-polished ends; inside diameter equally over the total length (conicity 0.02 mm).

Ungraduated for a volume of 40 µl, for use in hematocrit centrifuges. Manufactured according to international specifications, with colour code. Heparinised over the entire internal surface, with sodium heparin

with a red colour code at one end

Packing: 100 pieces in a tube, 10 tubes in a box

	Inside Ø	Outside Ø	Length
40563010	1.1 - 1.2 mm	approx. 1.5 mm	75 mm ± 1 mm



Micro hematocrit capillaries, not heparinised

Disposable, fire-polished ends; inside diameter equally over the total length (conicity 0.02 mm).

Ungraduated for a volume of 40 µl, for use in hematocrit centrifuges. Manufactured according to international specifications, with colour code.

with blue colour code at one end

Packing: 100 pieces in a tube, 10 tubes in a box

	Inside Ø	Outside Ø	Length
40564010	1.1 - 1.2 mm	approx. 1.5 mm	75 mm ± 1 mm



Micro hematocrit capillaries, heparinised, with mark at 60 mm

with sodium heparin, fire-polished end

Filling of the tubes up to the mark by capillary effect.

Can be closed with sealing material no. 40566010

Packing: 100 pieces in a tube, 10 tubes in a box

	Inside Ø	Outside Ø	Length
40565010	0.55 mm ± 0.05 mm	1.55 mm ± 0.05 mm	75 mm ± 0.5 mm



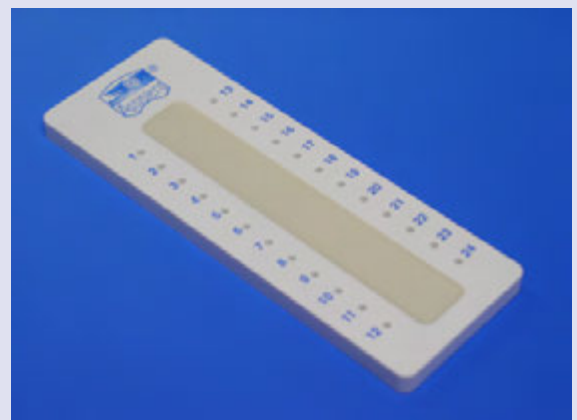
Hematocrit sealing material

Non-drying, for sealing micro hematocrit capillaries

Each plate has numbered positions on both sides for placing capillaries. This sealing material prevents the draining of the blood sample.

One plate is enough for sealing several hundred capillaries.

40566010 in plastic plates



Mechanical and Electronic Counters

Counters, manual

Four figures, with button for manual counting

The casing made of chrome-plated steel lies comfortably in the hand. The manual counter is being held with the forefinger at the finger bow. The counter is turned back to zero by using the lateral reset button.

40344010 Counting 0 - 9999



Blood cell counters, CE

for manual differential counting

Electronic counters and storage devices for the microscopical analysis of differential blood count.

The microscopical image can be monitored continuously, and the resulting figures can be recorded "blindly". Each instrument comes with directions for use.

Counting limit max. 1000

	Memory options	Version
40345010	8	AC-8
40345012	12	AC-12
40345015	15	AC-15
40345612	12	AC-12 with rechargeable battery
40345615	15	AC-15 PC

40345015 Buttons with LED display, four defined programmes and one free counting programme

40345612 Off-the-grid

40345615 for connecting with a PC



Pasteur Pipettes

made of glass

ISO 7712, precise, uniform shape, disposable, with constriction in the upper part for cotton plug
Capillary tip inside Ø of approx. 1 mm, body approx. 90 x 7 mm Ø
250 pieces/box - 1000 pieces/carton

	Total length	Version
40567001	approx. 150 mm	short form
40567002	approx. 230 mm	long form
40567091	approx. 150 mm	short form, with cotton plug
40567092	approx. 230 mm	long form, with cotton plug



Pasteur pipettes made of glass

with attached, long tip

	Packing/box	Total length	Body
40568010	25 pieces (in bag)	approx. 155 mm	approx. 95 x 7-8 mm Ø



made of polyethylene

500 pieces/box - 3000 pieces/carton

40569001	Capacity micro, 0.5 ml
40569002	Capacity 1 ml
40569003	Capacity 3 ml



Precision Cuvettes

Disposable, made of polystyrene, macro

Optically excellent transparency. Deepened windows as a protection against scratches. Arrow marking of the transmission direction

40705010	
Light path	10 mm
Application range	from 340 nm on
Windows	approx. 10 x 35 mm
Dimensions	approx. 12.5 x 12.5 x 45 mm
Capacity	min. 2.5 ml, max. 4.5 ml
Standard deviation at 360 nm	± 0.005 extinction units



Disposable, made of polystyrene, semi-micro

Optically excellent transparency. Deepened windows as a protection against scratches. Arrow marking of the transmission direction

40706010	
Light path	10 mm
Application range	from 340 nm on
Windows	approx. 5 x 23 mm
Dimensions	approx. 12.5 x 12.5 x 45 mm
Capacity	min. 1.5 ml, max. 3.0 ml
Standard deviation at 360 nm	± 0.005 extinction units





Precision cuvettes, optical glass, height outside 45 mm, width 12.5 mm

Two opposite sides and bottom optically processed, the other two sides frosted on the outside, without cover, common type for serial measurements

- 40710010** Light path 10 ± 0.1 mm
- 40710020** Light path 20 ± 0.1 mm
- 40710040** Light path 40 ± 0.2 mm
- 40710050** Light path 50 ± 0.2 mm



Precision cuvettes, optical glass, height outside 40 mm, width 24 mm

Two opposite sides and bottom optically processed, the other two sides frosted on the outside, without cover

- 40712005** Light path 5 ± 0.1 mm
- 40712010** Light path 10 ± 0.1 mm
- 40712020** Light path 20 ± 0.1 mm
- 40712040** Light path 40 ± 0.2 mm
- 40712050** Light path 50 ± 0.2 mm



Precision cuvettes, optical glass, height outside 50 mm, width 12.5 mm

Two opposite sides and bottom optically processed, the other two sides frosted on the outside, without cover

- 40713009** Light path 10 ± 0.1 mm

Precision cuvettes with grooved cover made of PTFE

Light path indicated on each cuvette.

Height outside 45 mm, width 12.5 mm

40715001	Light path 1 ± 0.01 mm, special optical glass
40715002	Light path 2 ± 0.01 mm, special optical glass
40715005	Light path 5 ± 0.01 mm, special optical glass
40715010	Light path 10 ± 0.01 mm, special optical glass
40715020	Light path 20 ± 0.02 mm, special optical glass
40715040	Light path 40 ± 0.02 mm, special optical glass
40715050	Light path 50 ± 0.02 mm, special optical glass
40715601	Light path 1 ± 0.01 mm, quartz glass
40715602	Light path 2 ± 0.01 mm, quartz glass
40715605	Light path 5 ± 0.01 mm, quartz glass
40715610	Light path 10 ± 0.01 mm, quartz glass
40715620	Light path 20 ± 0.02 mm, quartz glass
40715640	Light path 40 ± 0.02 mm, quartz glass
40715650	Light path 50 ± 0.02 mm, quartz glass



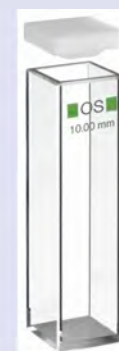
Fluorescence cuvettes with grooved cover made of PTFE

All four sides and bottom optically processed.

Light path indicated on each cuvette.

Height outside 45 mm, width 12.5 mm

40717010	Light path 10 ± 0.01 mm, special optical glass
40717020	Light path 20 ± 0.01 mm, special optical glass
40717610	Light path 10 ± 0.01 mm, quartz glass
40717620	Light path 20 ± 0.01 mm, quartz glass



Cuvettes, semi-micro, with grooved cover made of PTFE

Two opposite sides and bottom optically processed, the other two sides frosted on the outside, funnel-shaped top.

Light path indicated on each cuvette.

Width of inner gap 4 mm, height outside 45 mm, width 12.5 mm

40720005	Light path 5 ± 0.01 mm, special optical glass
40720010	Light path 10 ± 0.01 mm, special optical glass
40720020	Light path 20 ± 0.02 mm, special optical glass
40720040	Light path 40 ± 0.02 mm, special optical glass
40720050	Light path 50 ± 0.02 mm, special optical glass
40720605	Light path 5 ± 0.01 mm, quartz glass
40720610	Light path 10 ± 0.01 mm, quartz glass
40720620	Light path 20 ± 0.02 mm, quartz glass
40720640	Light path 40 ± 0.02 mm, quartz glass
40720650	Light path 50 ± 0.02 mm, quartz glass





Micro cuvettes with grooved cover made of PTFE

Two opposite sides and bottom optically processed, the other two sides frosted on the outside, funnel-shaped top.

Light path indicated on each cuvette.

Light path 10 ± 0.01 mm, width of inner gap 2 mm, height outside 25 mm, width 12.5 mm

Width of inner gap also available with 4 mm on request.

40722010 made of special optical glass

40722610 made of quartz glass



Cover made of PTFE, grooved

When ordering, please indicate catalogue number and light path of the cuvette!

40729010 for light path 10 mm



Stirring spatula made of plastic, with crossbar

Crossbar improves mixing of samples, especially in rectangular cuvettes

	Length	Crossbar
40734010	approx. 120 mm	approx. 9 mm



Urinometers

according to Vogel

without thermometer

1.000 - 1.060 g/cm³

Division 0.001 g/cm³, reference temperature +20 °C/+68 °F, length approx. 15 cm

with steel metal ballast

40240010 for export outside EU only

40240710 CE type, tolerance ± 0.001 g/cm³



Urinometers according to Vogel with thermometer

1.000 - 1.060 g/cm³

Division 0.001 g/cm³, reference temperature +20 °C/+68 °F, length approx. 17 cm

with steel metal ballast

40240720 CE type, tolerance ± 0.001 g/cm³

Glass jar with base and spout

for urinometers

40241010 Dimensions approx. 175 x 28 mm



Urinometer, large model with glass jar

1.000 - 1.060 g/cm³

Urinometer no. 40240010 or no. 40240710 with jar no. 40241010 in a box

40242010 for export outside EU only

40242710 CE type



Urinometer, small model

according to Squibb

1.000-1.060 g/cm³, with steel metal ballast,

Division 0.002 g/cm³, reference temperature +20 °C/+68 °F, length approx. 9 cm

40245010 for export outside EU only

40245710 CE type, tolerance ± 0.002 g/cm³



Glass jar with base and spout

for urinometers no. 40245010 and 40245710

40247010 Dimensions approx. 110 x 20 mm





Urinometer with glass jar

1.000 - 1.060 g/cm³, urinometer no. 40245010 or no. 40245710 with glass jar no. 40247010 in a box

40248010 for export outside EU only

40248710 CE type

Urine jars and cups

Urine jars

made of glass, curved shape, with spout, without handle, without scale

	Largest outside Ø	Height	Capacity
44122010	approx. 60 mm	approx. 70 mm	approx. 75 ml



Urine specimen cups

Clear glass, with frosted label for inscription, with spout, without handle, conical, stackable

44125010 Capacity approx. 150 ml



Water Bath with Thermostat

Thermostatic water bath, CE

Digital

Complete with Plexiglas® tank no. 43194001 (without accessories)
All immersing, bare metal parts are made of stainless steel. Fully electronic wear-free temperature control with digital display.
Cooling coil and connection for external use are available as spare parts.

Technical data

Temperature display / resolution: LED / 0.1 K
Temperature setting / resolution: digital / 0.1 K
Temperature control: adjustable nominal value limit and alarm circuit
Operating temperature range:
+5 °C / +41 °F above room temperature up to +100 °C / +212 °F
Operating temperature range with external cooling:
-30 °C / -22 °F up to +100 °C / +212 °F
Pump capacity: max. 5 l/min.

43180010	
Heating	1000 watts
Dimensions	approx. 120 x 130 x 330 mm (w x d x h)
Voltage	230 volts
Safety class	3 (DIN 12876)
Weight	3 kg
Pressure	max. 0.12 bar
Temperature constancy	± 0.1 K



Accessories for thermostatic water bath

ThermoClean DC - Stabilising solution for water baths

Plastic bottle containing 100 ml concentrate for 100 l water

Properties

- suitable for all kinds of thermostats and circulation pumps made of metal, glass or any plastics
- can also be used for closed temperature control systems, e.g. pH blood gas analyser
- prevents algae and bacterial growth, no odour formation
- no obstructions in tubings and temperature control system
- frequent cleaning of the tank is unnecessary
- solution is without aggressive phosphates and oxidising or reducing substances
- only minor pH value change of the water
- solvent-free
- prevents foam formation, even with strong circulation

Application

Take 1 ml of the solution for 1 l of distilled water (Clean the tank before use!)

43170001 Concentrate methylene blue

43170003 Concentrate clear

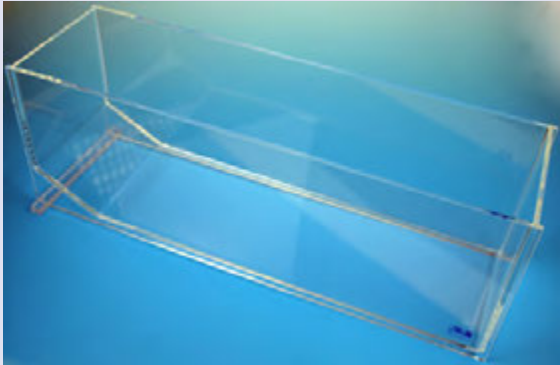




Flow monitors made of plastic (SAN)

Transparent, for control of the water flow

43178010 for tubing of 6-11 mm inside Ø



Plexiglas® tanks with inclined bottom

for better circulation

43187003 Dimensions approx. 43 x 13 x 15 cm



Water bath racks made of Plexiglas®

for hanging into the tank

	Holes	for	Ø
43188002	16	16 small bottles	approx. 23 mm
43188003	20	20 centrifuge or test tubes	approx. 18 mm
43188004	24	24 reaction tubes	approx. 11 mm
43188006	24	24 coagulometer tubes up to approx. 12 mm Ø	approx. 13 mm



Plexiglas® tank without inclined bottom

for thermostatic water bath no. 43180010

43194001 Dimensions approx. 34.5 x 14 x 15.5 cm

Water bath racks made of stainless steel

Circular; fits into a beaker, low form, 1000 ml
for 9 tubes up to approx. 18 mm Ø

44263010 Diameter approx. 10 cm



Counting Chambers and Hemocytometers

Cover glasses for hemocytometers, CE

Different sizes

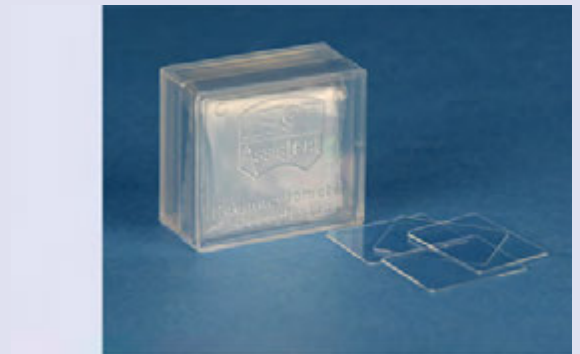
Packing: 10 pieces/box, thickness 0.4 mm

40412710 30 x 30 mm

40415710 20 x 26 mm

40416710 22 x 22 mm

40417710 24 x 24 mm



Hemocytometers

without CE marking, for export outside EU only
complete in plastic case

consisting of:

- 1 erythrocyte pipette
 - 1 leucocyte pipette
 - 2 rubber tubings with mouthpieces
 - 1 counting chamber
 - 2 optically plane cover glasses
- directions for use

40420002 Hemocytometers, Thoma double ruling

40421002 Hemocytometers, Neubauer double ruling

40422002 Hemocytometers, improved Neubauer double ruling

40422012 Hemocytometers, improved Neubauer double ruling,
bright-line

40429002 Hemocytometers, Fuchs-Rosenthal double ruling

Other types are available on request.

Pipetting by mouth is prohibited according to current regulations.
We reject any kind of product liability in case of using mouthpiece
with rubber tubing.

We recommend our pipetting aid no. 40558010 and 40558001.



Counting chambers

made of special optical glass

Assistent® counting chambers are precision measuring instruments. They are used to count the number of particles per volume unit of a liquid.

The counting chambers are supplied with CE mark as per IVD directive 98/79/EC. Counting chambers without CE mark are available for use outside the European Union only.

The size of the counting chambers is approx. 76 x 32 mm.

The lateral fields for inscription are separated by grooves from the three ground and polished supports.

The central support is deeper than the outer ones and is referred to as "depth of chamber".

The depth (tolerance $\pm 2\%$) depends on the ruling - see the following descriptions.

The rulings are engraved into the central support. Counting chambers with double ruling are common. The central support of those chambers is divided by an additional groove.

Counting chambers bright-line

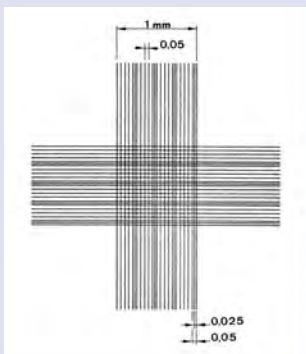
The central support is coated by a rhodium layer wherein the rulings are engraved. The coating provides a sharp contrast and the lines appear brightly illuminated.

Special production

Other depths are available on request.

Packing

Counting chamber, with 2 optically plane cover glasses, in a transparent plastic box



Counting chambers Thoma

for counting thrombocytes and erythrocytes
for export outside EU only, chamber depth 0.1 mm

Ruling

Large central square: 1 mm²

consisting of

groups of 16 squares 0.2 x 0.2 mm - surface area 0.04 mm² (result from the intermediate line at every 1st, 6th, 11th and 16th square)

divided into 400 small squares 0.05 x 0.05 mm - surface area 0.0025 mm²

- 40440001** Single ruling, without clamps, without CE mark
- 40440002** Double ruling, without clamps, without CE mark
- 40440003** Double ruling, without clamps, without CE mark

Counting chambers Thoma

Chamber depth 0.1 mm, CE

- 40440701** Single ruling, without clamps
- 40440702** Double ruling, without clamps
- 40440703** Double ruling, with clamps
- 40440712** Double ruling, bright-line, without clamps

Counting chambers Neubauer

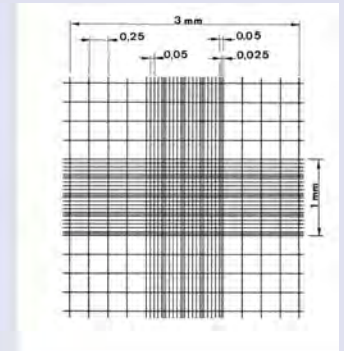
for counting erythrocytes and leucocytes
for export outside EU only, chamber depth 0.1 mm

Ruling

9 large squares of 1 mm² each = 9.0 mm².

Ruling like Thoma - additionally 4 squares in the corners
each divided into 16 equal squares

- 40441001** Single ruling, without clamps, without CE mark
- 40441002** Double ruling, without clamps, without CE mark
- 40441003** Double ruling, with clamps, without CE mark
- 40441012** Double ruling, bright-line, without clamps, without CE mark



Counting chambers Neubauer

Chamber depth 0.1 mm, CE

- 40441701** Single ruling, without clamps
- 40441702** Double ruling, without clamps
- 40441703** Double ruling, with clamps
- 40441712** Double ruling, bright-line, without clamps

Counting chambers improved Neubauer

for counting erythrocytes and leucocytes
for export outside EU only, chamber depth 0.1 mm

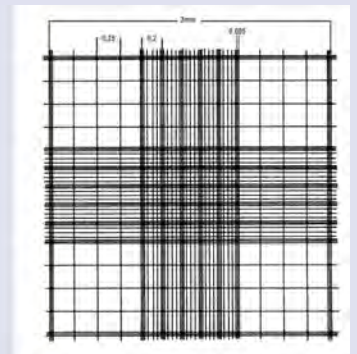
Ruling

9 large squares of 1 mm² = 9 mm²

The central square of 1 mm² contains 25 groups of squares divided
into 16 mini squares of 0.05 x 0.05 mm each.

Triple marginal lines **at all sides** of the square groups distinguish this
ruling from Neubauer. The middle line is decisive for the counting.

- 40442002** Double ruling, without clamps, without CE mark
- 40442012** Double ruling, bright-line, without clamps, without CE mark



Counting chambers improved Neubauer

Chamber depth 0.1 mm, CE

- 40442702** Double ruling, without clamps
- 40442712** Double ruling, bright-line, without clamps

Counting chambers Bürker

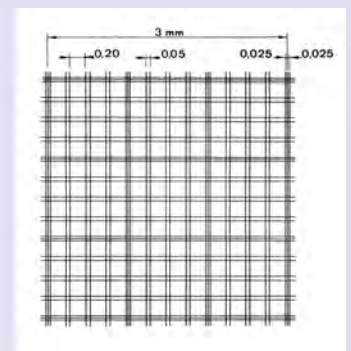
for counting thrombocytes or erythrocytes
for export outside EU only, chamber depth 0.1 mm

Ruling

9 large squares - surface area 1 mm² each = 9 mm²

Each large square is divided into 16 groups of squares 0.2 x 0.2 mm.
Additionally there are small squares of an surface area of
0.0025 mm² each.

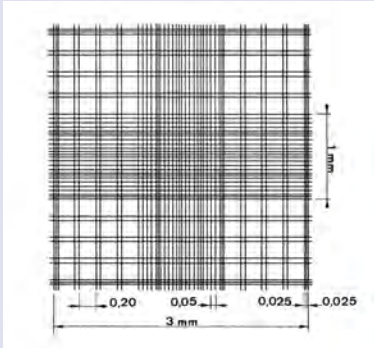
- 40443001** Single ruling, without clamps, without CE mark
- 40443002** Double ruling, without clamps, without CE mark
- 40443003** Double ruling, with clamps, without CE mark
- 40443013** Double ruling, bright-line, with clamps, without CE mark



Counting chambers Bürker

Chamber depth 0.1 mm, CE

- 40443701** Single ruling, without clamps
- 40443702** Double ruling, without clamps
- 40443703** Double ruling, with clamps
- 40443712** Double ruling, bright-line, without clamps
- 40443713** Double ruling, bright-line, with clamps



Counting chambers Türk

for export outside EU only, chamber depth 0.1 mm

Ruling

Total surface area: 9 mm²

The overall size and the central square correspond to the Neubauer ruling.

The groups of squares in the corners are divided by double lines.

- 40444002** Double ruling, without clamps, without CE mark

Counting chambers Türk

Chamber depth 0.1 mm, CE

- 40444702** Double ruling, without clamps

Counting chambers Bürker-Türk

for export outside EU only, chamber depth 0.1 mm

Ruling

combination of Buerker and Thoma

9 large squares of 1 mm² each

consisting of 16 groups of squares of 0.2 x 0.2 mm

Large central square: 16 small squares of 0.05 x 0.05 mm - surface area of 0,0025 mm² each

- 40445002** Double ruling, without clamps, without CE mark

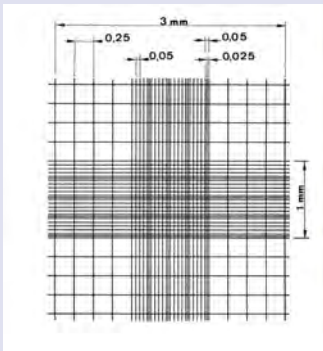
- 40445003** Double ruling, with clamps, without CE mark

Counting chambers Bürker-Türk

Chamber depth 0.1 mm, CE

- 40445702** Double ruling, without clamps

- 40445703** Double ruling, with clamps



Counting chambers Nageotte

for the examination of lumbar fluid
for export outside EU only, chamber depth 0.5 mm

Ruling

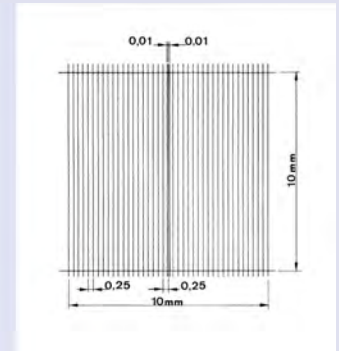
Total area: 100 mm²

divided into 40 rectangles of 10 x 0.25 mm each = 2.5 mm²

The middle of the ruling is marked by a double line.

40446001 Single ruling, without clamps, without CE mark

40446002 Double ruling, without clamps, without CE mark



Counting chambers Nageotte

Chamber depth 0.5 mm, CE

40446701 Single ruling, without clamps

40446702 Double ruling, without clamps

Counting chambers Thoma new

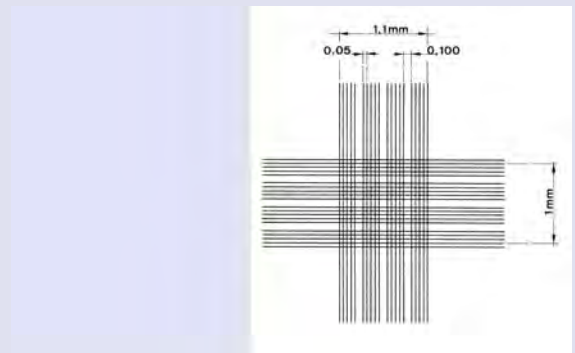
for export outside EU only, chamber depth 0.1 mm

Ruling

Total surface area: 1.21 mm²

divided into 16 groups of squares like Thoma ruling, but without marginal squares, where the erythrocytes easily agglomerate at the triple lines.

40447002 Double ruling, without clamps, without CE mark



Counting chambers Thoma new

Chamber depth 0.1 mm, CE

40447701 Single ruling, without clamps

40447702 Double ruling, without clamps

40447703 Double ruling, with clamps

Counting chambers Fuchs-Rosenthal

for counting cells in cerebrospinal fluid
for export outside EU only, chamber depth 0.2 mm

Ruling

Total surface area: 16 mm²

16 squares of 1 mm² each

each consisting of 16 mini squares of 0.25 x 0.25 mm -

surface area 0.0625 mm² each

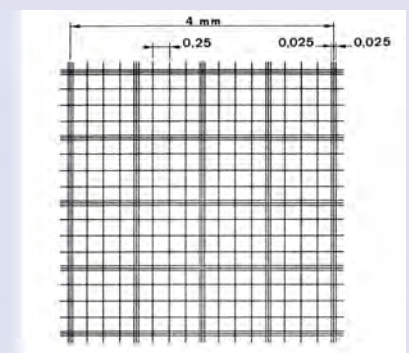
40449001 Single ruling, without clamps, without CE mark

40449002 Double ruling, without clamps, without CE mark

40449003 Double ruling, with clamps, without CE mark

40449012 Double ruling, bright-line, without clamps, without CE mark

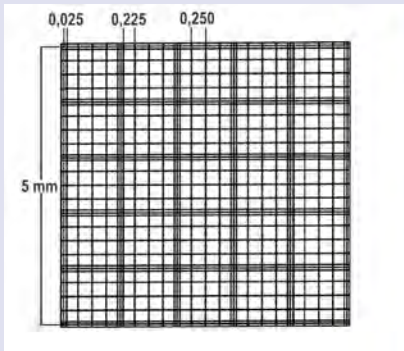
40449013 Double ruling, bright-line, with clamps, without CE mark



Counting chambers Fuchs-Rosenthal

Chamber depth 0.2 mm, CE

- 40449701** Single ruling, without clamps
- 40449702** Double ruling, without clamps
- 40449703** Double ruling, with clamps
- 40449712** Double ruling, bright-line, without clamps
- 40449713** Double ruling, bright-line, with clamps



Counting chambers Jessen

for counting cells in cerebrospinal fluid
for export outside EU only, chamber depth 0.4 mm

Ruling

Total surface area: 25 mm², volume: 10 mm³
25 groups of squares of 1 mm² each
consisting of 16 small squares 0.25 x 0.25 mm -
surface area 0.0625 mm² each

- 40450002** Double ruling, without clamps, without CE mark

Counting chambers Jessen

Chamber depth 0.4 mm, CE

- 40450702** Double ruling, without clamps

Counting chambers Schilling-Kreuznetz (cross-shaped ruling)

for export outside EU only, chamber depth 0.1 mm

Ruling

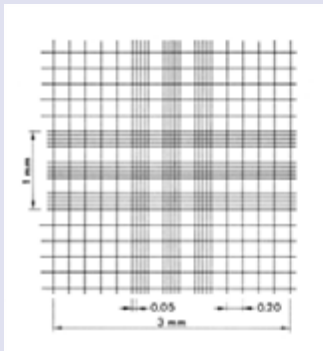
Total surface area: 9.0 mm²
Central square: 9 groups of squares with mini squares
of 0.0025 mm² each
The corner squares are divided into 25 small squares
of 0.04 mm² each

- 40452002** Double ruling, without clamps, without CE mark

Counting chambers Schilling-Kreuznetz

Chamber depth 0.1 mm, CE

- 40452702** Double ruling, without clamps



Counting chambers Malassez

for export outside EU only, chamber depth 0.2 mm

Ruling

Total surface area: 5.0 mm² (2 x 2.5 mm)

100 rectangles 0.20 x 0.25 mm

consisting of

25 fields divided into 20 squares of 0.05 x 0.05 mm - surface area 0.0025 mm² each

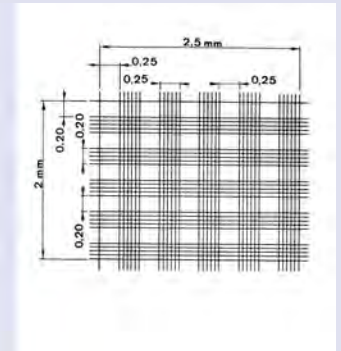
25 fields divided into 5 rectangles of 0.20 x 0.05 mm - surface area 0.01 mm² each

25 fields divided into 4 rectangles of 0.25 x 0.05 mm - surface area 0.0125 mm² each

25 fields of 0.20 x 0.25 mm - surface area 0.05 mm² each - without division

40453001 Single ruling, without clamps, without CE mark

40453002 Double ruling, without clamps, without CE mark



Counting chambers Malassez

Chamber depth 0.2 mm, CE

40453701 Single ruling, without clamps

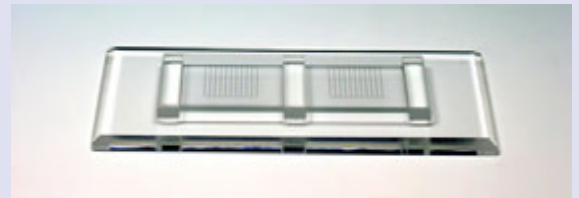
40453702 Double ruling, without clamps

Counting chambers according to McMaster

for veterinary medicine (e.g. helminth eggs counting)

with 2 counting areas, cover glass with 2 counting grids glued on 3 supports

	Counting area	Dimensions
40454010	10 x 10 x 0.5 mm	approx. 76 x 32 mm



Shakers and Mixers

Rocking shakers

Small model, CE

with variable number of revolutions and digital display. The electronic feedback control of the device ensures a smooth start as well as a constant and accurate speed. The rocking platform is designed to rock along the middle axis.

A provided, anti-slip mat holds small containers. Optionally available is a removable, washable plastic plate.

The rocking shaker comes with an illuminated "ON/OFF" switch and a speed control of the shaking frequency. The timer can be set up to max. 99 hours. The device turns off after the expiration of the set time.

Motor: Brushless AC motor with electronic feedback speed control

40348022

Max. charge	1 kg
Voltage	110 or 230 volts (see rating plate)
Weight	2.2 kg
Size of platform	210 x 210 mm
Total dimensions	213 x 213 x 110 mm
Tilt angle	adjustable to 5° or 7° (7° preset)
Shaking rate	steplessly adjustable from 5-50 rpm
Shaking motion	teetering



Large model, CE

with variable number of revolutions. The tilt angle can be adjusted to 3°, 6°, 9° or 12° (adjusted to 12° on delivery). The electronic feedback control of the device ensures a smooth start as well as a constant and accurate speed.

The rocking platform is designed to rock along the middle axis. The provided, rubber-like and anti-slip mat holds Petri dishes, microplates and other small containers.

The rocking shaker comes with an illuminated "ON/OFF" switch and a speed control of the shaking frequency.

Motor: Brushless DC motor with electronic feedback speed control

40348014

Voltage	230 volts, 50 hertz, 15 watts
Size of platform	420 x 350 mm
Total dimensions	520 x 350 x 100 mm
Cable	approx. 1.5 m with plug
Weight	approx. 3.8 kg
Shaking rate	steplessly adjustable from 10-100 rpm



Shaker with platform, CE

The revolutions are being measured opto-electronically and readjusted electronically.

The supporting device for the shaking platform attachment is driven by an eccentric mechanism of 3 mm lifting capacity (from edge to edge). The rotation of the eccentric driveshaft is transmitted from powerful ball bearings to the supporting device.

Four tubular connecting pieces prevent the supporting device from turning. In contrast to the traditional single-point suspension, these silicone connecting pieces symmetrically adapt themselves to the centre of rotation. The result is an uniform, horizontal and circular rotation at every point of the supporting device.

A toggle switch permits different functions: "0" = "OFF", "I" = "Continuous operation" and "II" = "Timer". The timer can be set from 1 to 60 minutes.

The shaking platform is equipped with an anti-slip rubbery mat, which holds small containers securely in place. The mat can be easily cleaned with water and detergent.



Motor: Capacitor motor

40348018

Voltage	230 volts, 50 hertz, 40 watts
Cable	approx. 1.5 m with plug
Total dimensions	approx. 150 x 160 x 103 mm (l x w x h)
Size of platform	approx. 200 x 400 mm
Total weight	approx. 4.7 kg (device 4060 g, platform 650 g)
Motor	Capacitor motor
Shaking rate	steplessly adjustable from 100-1100 rpm

Rotating mixers

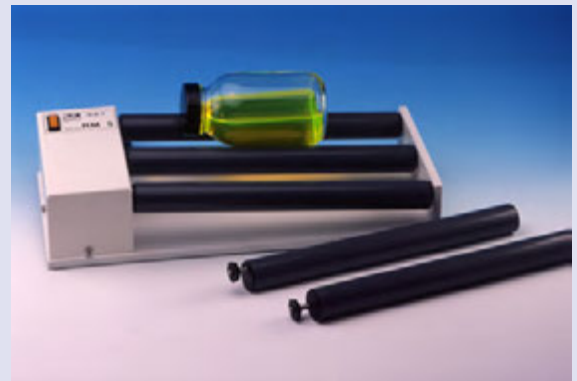
with removable rolls, CE

Tumbling rotating mixer with five synchronous, diagonally eccentric and removable PVC rolls

The synchronous rolls are designed as a consistently rotating surface for sample bottles etc. These bottles are rotating around its long axis and rocking along its contact surface.

In case of using large containers, the rolls can be removed. Rolls are optionally available without tumbling motion (but only rotating).

This device is especially designed for the constant mixing of samples (e.g. whole blood) for haematological determination and for the gentle mixing of other cell suspensions. It also prevents sedimentation or dispersion of other samples such as colours, paints, oils and cosmetics etc.



with cable and Schuko plug

40347010

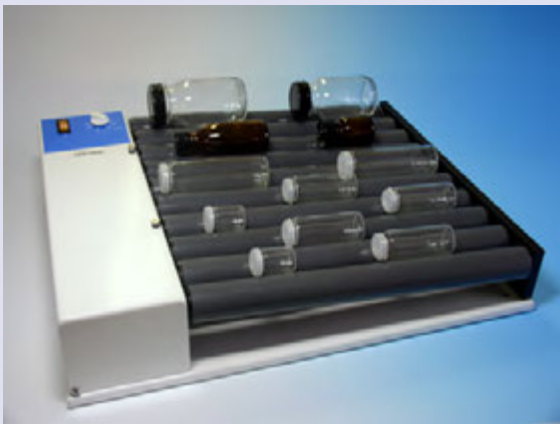
Voltage	230 volts, 50 hertz
Roll length	320 mm
Dimensions	430 x 180 x 95 mm (l x w x h)
Weight	approx. 3.7 kg
Speed	approx. 36 rpm
Loading weight	max. 2.0 kg



Rotating mixer with integral rolls, CE

Tumbling rotating mixer with five synchronous, diagonally eccentric PVC rolls.

	40348010	40348026
Voltage	110 or 230 V, 50 Hz	230 V, 50 Hz
Dimensions	430 x 180 x 95 mm	332 x 180 x 95 mm
Roll length	approx. 330 mm	approx. 200 mm
Speed	approx. 35 rpm	approx. 32 rpm



Tumbling rotating mixer with variable speed control, CE

Five or ten synchronously rotating PVC rolls provide an uniform and gently tumbling mixing of the tubes etc. These bottles are rotating around its long axis and rocking along its contact surface.

This device is especially designed for the uniform mixing of medical laboratory tests (e.g. whole blood) for haematological determinations and other cell suspension samples. It also prevents sedimentation or dispersion of other samples such as colours, paints, oils and cosmetics etc.

Voltage 110 or 230 volts, roll length approx. 324 mm

	40349006	40349012	40349018
Max. charge	2.0 kg	2.0 kg	5.0 kg
Speed	2-30 rpm, steplessly adjustable	10-80 rpm, steplessly adjustable	2-30 rpm, steplessly adjustable
Weight	3.8 kg	3.8 kg	7.6 kg
Dimensions	436 x 180 x 105 mm	436 x 180 x 105 mm	436 x 358 x 105 mm
Rolls	5 (not removable)	5 (not removable)	10 (removable)
Motor	Shaded-pole motor, 40 watts	Shaded-pole motor, 40 watts	Shaded-pole motor, 90 watts

Rotary mixer, CE

The device consists of a solid base body, in which the drive, the electrical components and the bearing for the swash plate can be found. The swash plate is furnished with a screw thread (left-hand thread) and screwed to the bearing journal. The swash plate is composed of 60 holes with three different diameters in order to carry sample bottles.

20 holes of 10 mm diameter; 20 holes of 12.5 mm diameter and 20 holes of 15.5 mm diameter.

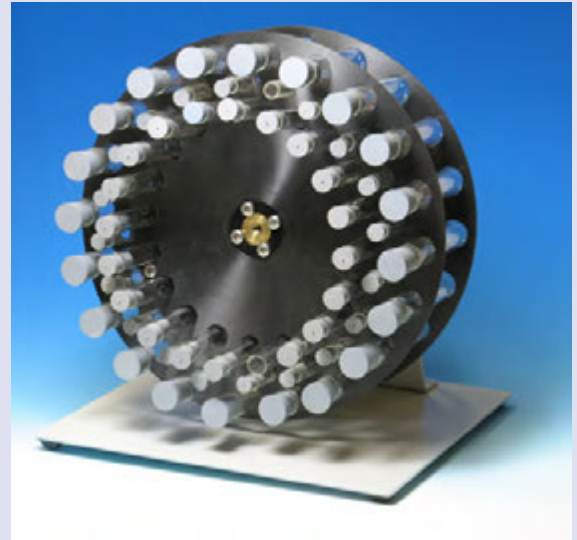
The sample bottles, inserted in the swash plate, are held in position by an elastic clamping device so that they cannot fall out during the process of mixing. The base frame is painted in an acid-proof manner. The swash plate is made of plastic which is, to the greatest extent, resistant to chemicals and solvents.

During one revolution of the swash plate, the sample tubes once rotate around their own axis, resulting in a pivoting of the tube contents from the top to the bottom and back. The swash plate rotates at a fixed speed of approx. 6 rpm.

This contributes to a steady, gentle mixing of the samples.

40350010

Width	200 mm
Length	200 mm
Swash plate	220 mm Ø
Voltage	230 volts, 50/60 hertz, 6 watts
Height	250 mm
Weight	approx. 2.5 kg



Shakers with digital display

3D movement, CE

The soft 3D movement of this shaker is ideal for low foaming agitation as well as DNA extractions. The platform holds Petri dishes, microplates and other small containers. A detachable plastic platform is optionally available.

- brushless AC motor with electronic feedback speed control
- shaking frequency: steplessly adjustable 5 - 50 rpm
- maximum time limit: 99 hours
- tilt angle: 5° or 7° (preset at 7°)
- platform: approx. 217 x 217 mm

40351010

Max. charge	1 kg
Voltage	110 volts or 230 volts (see rating plate)
Weight	approx. 2.2 kg
Dimensions	approx. 213 x 213 x 110 mm
Shaking rate	steplessly adjustable from 5-50 rpm





Shaker with digital display, CE without attachment

The microprocessor technology of this shaker allows the data transfer by RS 232 interface for computer control. The special indexing mechanism stops the shaking platform always at a defined position.

The powerful laboratory shaker with linear reciprocal motion and 20 mm stroke is especially designed to shake flasks for biological cultures and Erlenmeyer flasks in sizes of 250 and 500 ml.

- designed to be used continuously
- speed control: 40 to 200 rpm in steps of 10 rpm
- feedback control by a micro controller
- two-line alphanumeric display with 16 characters each to show speed and time of operation
- maximum time limit: 99 days, 23 hours and 59 minutes - shortest unit 1 minute

40353010 Maximum load 1.5 kg



Standard attachments including respective clamps

without shaker, for shaker no. 40353010

40353030 for 6 Erlenmeyer flasks 250 ml

40353034 for 4 Erlenmeyer flasks 500 ml



Mini centrifuge

Sprout®, CE

This compact mini centrifuge is ideal for quick spin-downs of reaction tubes (micro cell separations and HPLC samples).

Ergonomically designed lid with automatic start-stop for one-handed operation. Rotor accelerates quickly to 6000 rpm (RCF max. 2000 x g). As a safety feature, the rotor will not operate if the lid is open.

Rubber footplate keeps unit stable and deadens vibration smooth.

Durable, easy to clean ABS finish, with rack for reaction tubes. With 2 rotors of polycarbonate. Easy snapspin rotor change

Rotor 1: circular, for 6 tubes of 1.5 and 2.0 ml and - with included adapters - for 6 tubes of 0.4 and 0.5 ml

Rotor 2: rectangular, for two strips of 8 PCR tubes of 0.2 ml or for 16 single PCR tubes of 0.2 ml

with connecting cable and safety plug

	Voltage	Dimensions	Weight
40352010	230 V, 50/60 Hz, 0.1 A	approx. 153 x 128 x 104 mm	approx. 795 g

Reaction tubes made of polypropylene, with lid

suitable for mini centrifuge no. 40352010

49040010 Capacity approx. 1.5 ml





Microscopy and Staining

Storage Folders and Cases

Slide folders made of cardboard

without lid

42698010 for 20 microscope slides of 76 x 26 mm



with lid

for microscope slides of 76 x 26 mm

42700001 for 1 microscope slide

42700002 for 2 microscope slides

42700003 for 3 microscope slides

42700005 for 5 microscope slides

42700010 for 10 microscope slides

42700020 for 20 microscope slides



Slide cases, frame made of polypropylene, antistatic

Black, with numbered plastic grooves (antistatic, resistant to xylene), imprinted from 1-100, stackable

42701020 for 100 microscope slides of 76 x 26 mm





Slide cases, wooden frame, antistatic

Black-coated, bottom part and lid are connected by metal hinges and clasps, with numbered plastic grooves (antistatic, resistant to xylene) and numbered index.

42701010 for 100 microscope slides of 76 x 26 mm



Slide cases, wooden frame, antistatic

Black-coated, bottom part and lid are connected by metal hinges and clasps, with numbered plastic grooves (antistatic, resistant to xylene) and numbered index.

42702010 for 50 microscope slides of 76 x 26 mm

Slide cases, wooden frame, antistatic

Black-coated, bottom part and lid are connected by metal hinges and clasps, with numbered plastic grooves (antistatic, resistant to xylene) and numbered index.

42703010 for 25 microscope slides of 76 x 26 mm



Slide cases made of polypropylene, for 100 microscope slides of 76 x 26 mm

made of solid polypropylene, with hinged lid, stackable, dimensions approx. 210 x 168 x 33/34 mm

42704001 White

42704002 Blue

42704003 Red

Slide boxes made of polystyrene, for 50 microscope slides of 76 x 26 mm

Storage boxes made of polystyrene with tight-closing lid, removable index card and numbered bottom, stackable

42705002	Blue
42705003	Red
42705010	White



Cover Glasses for Microscopy

The cover glasses are manufactured from cover glass D 263® M, a colourless borosilicate glass, according to the requirements of ISO 8255.

Appropriate manufacturing processes guarantee low tolerances.

The outstanding features of D 263® M include:

- Virtually free of any colour distortion because super-transparent and colourless
- Excellent internal glass quality with very low levels of inclusions, striae, bubbles, streaks, etc.
- High spectral transmission
- Excellent flatness
- Optimum resistance to chemical attack
- Refractive index finely adapted to microscopes

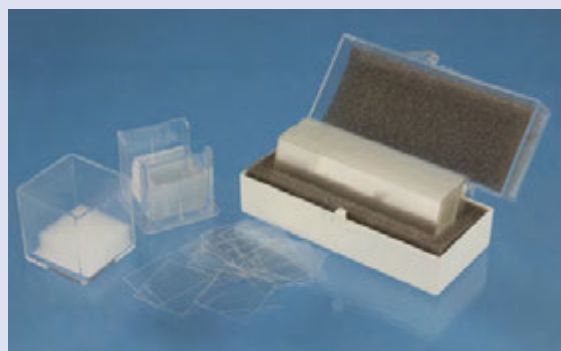
Cover glasses for microscopy

in boxes of 100 - special thickness, CE

Cover glasses are available in different thicknesses:

0	= 0.08 - 0.12 mm
1	= 0.13 - 0.16 mm
1.5	= 0.16 - 0.19 mm
2	= 0.19 - 0.23 mm

Cover glasses will be regularly supplied in standard thickness 1. Cover glasses of thicknesses 0 - 1.5 and 2 are special designs and cannot be returned or exchanged.





Cover glasses in boxes of 100 - thickness 1, CE

in plastic boxes, 10 boxes in a carton (1000 glasses)
Special sizes are available as well.

Dimensions:

40990101	10 x 10 mm
40990103	12 x 12 mm
40990106	15 x 15 mm
40990109	18 x 18 mm
40990112	20 x 20 mm
40990115	22 x 22 mm
40990118	24 x 18 mm
40990121	24 x 24 mm
40990122	25 x 25 mm
40990124	26 x 21 mm
40990127	30 x 24 mm
40990130	32 x 22 mm
40990133	32 x 24 mm
40990136	36 x 24 mm
40990139	40 x 22 mm
40990142	40 x 24 mm
40990145	40 x 25 mm
40990148	46 x 24 mm
40990151	50 x 24 mm
40990157	55 x 24 mm
40990160	55 x 25 mm
40990166	60 x 24 mm



in boxes of 50 - thickness 1, CE

in plastic boxes, 20 boxes in a carton (1000 glasses)
Special sizes are available as well.

Dimensions:

41000103	12 x 12 mm
41000106	15 x 15 mm
41000109	18 x 18 mm
41000112	20 x 20 mm
41000115	22 x 22 mm
41000118	24 x 18 mm
41000121	24 x 24 mm
41000124	26 x 21 mm
41000127	30 x 24 mm
41000133	32 x 24 mm
41000136	36 x 24 mm
41000139	40 x 22 mm
41000142	40 x 24 mm
41000148	46 x 24 mm
41000151	50 x 24 mm
41000154	50 x 25 mm
41000163	60 x 22 mm
41000166	60 x 24 mm

Cover glasses in boxes of 100 - thickness 1, CE - circular

10 boxes in a carton (1000 glasses)
Special sizes are available as well.

	Diameter:
41001103	3 mm
41001105	5 mm
41001108	8 mm
41001110	10 mm
41001112	12 mm
41001113	13 mm
41001114	14 mm
41001115	15 mm
41001117	17 mm
41001118	18 mm
41001120	20 mm
41001122	22 mm
41001124	24 mm
41001125	25 mm
41001130	30 mm



Selected thickness 0.17 ± 0.01 mm, CE

in plastic boxes of 50 pieces, except: 26 x 21 and 32 x 24 mm of 100 pieces, 20 or 10 boxes in a carton (1000 glasses)
Special sizes are available as well.

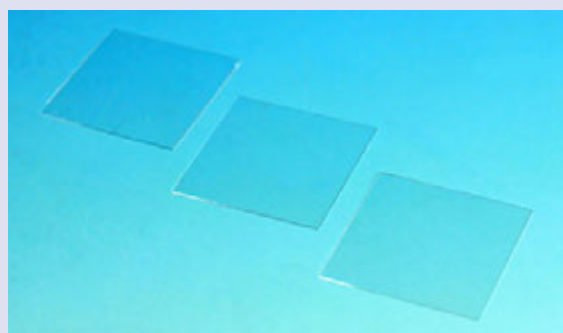
	Dimensions:
41014509	18 x 18 mm
41014512	20 x 20 mm
41014515	22 x 22 mm
41014521	24 x 24 mm
41014524	26 x 21 mm
41014533	32 x 24 mm
41014542	40 x 24 mm
41014551	50 x 24 mm



Selected thickness 0.17 ± 0.02 mm, CE

in plastic boxes of 50 pieces, except: 26 x 21 and 32 x 24 mm of 100 pieces, 20 or 10 boxes in a carton (1000 glasses)
Special sizes are available as well.

	Dimensions:
41015609	18 x 18 mm
41015612	20 x 20 mm
41015615	22 x 22 mm
41015621	24 x 24 mm
41015624	26 x 21 mm
41015633	32 x 24 mm
41015642	40 x 24 mm
41015651	50 x 24 mm



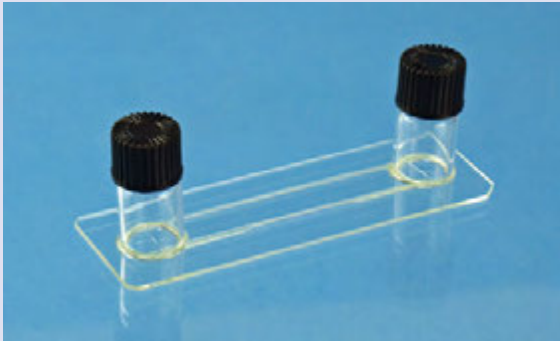
Diagnostic Microscope Slides

Micro Life microscope slides

Micro Life®

Microscope slide, special pipette and directions for use for observation of long-term cultures of microorganisms

42426010 The "living" microscope slide



Immunofluorescent printed slides, CE

Black epoxy coating, 8 numbered circles of approx. 6 mm Ø

	Packing/box	Thickness	Dimensions
42420010	100 pieces	approx. 1 mm	approx. 75 x 25 mm



Black epoxy coating, 3 circles of approx. 14 mm Ø

	Packing/box	Thickness	Dimensions
42421010	100 pieces	approx. 1 mm	approx. 75 x 25 mm



Black epoxy coating, 3 numbered circles of approx. 10 mm Ø

	Packing/box	Thickness	Dimensions
42422010	100 pieces	approx. 1 mm	approx. 75 x 25 mm



Black epoxy coating, 10 circles of approx. 6 mm Ø

	Packing/box	Thickness	Dimensions
42423010	100 pieces	approx. 1 mm	approx. 75 x 25 mm



Immunofluorescent printed slides, CE, blue epoxy coating, 1 circle of approx. 8 mm Ø

	Packing/box	Thickness	Dimensions
42424010	100 pieces	approx. 1 mm	approx. 75 x 25 mm



Staining Equipment

Staining stands

made of Plexiglas®

41218010 with 3 Hellendahl jars made of glass no. 42460010



made of hardwood

41220010 with 3 rectangular glass jars approx. 40 x 20 mm no. 41230010



made of hardwood

41221010 with 6 rectangular glass jars approx. 40 x 20 mm no. 41230010



Staining stand made of Plexiglas®, empty, with 3 holes

suitable for staining jars, circular, no. 41231010
 bottles, 50 ml, no. 41301006, 41303006, 41311006, 41313006
 bottles with frosted label, 50 ml, no. 41321010
 pipette bottles, 50 ml, no. 42600008 and 42601008

	Dimensions	Opening Ø
41223010	approx. 18 x 7.5 x 3 cm	approx. 43 mm





Staining stands made of hardwood

with 3 circular glass jars no. 41231010

41224010 Holes of approx. 48-49 mm Ø



made of hardwood

with 6 circular glass jars no. 41231010

41225010 Holes of approx. 48-49 mm Ø



made of hardwood

with 3 oval glass jars no. 41232010

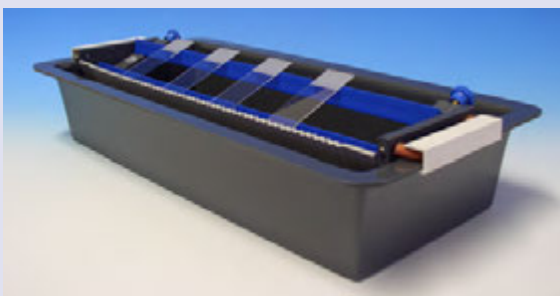
41226010 Holes of approx. 40 x 20 mm



made of hardwood

with 6 oval glass jars no. 41232010

	Dimensions	Holes
41227010	approx. 265 x 70 mm	approx. 40 x 20 mm



Staining Accessories

Staining bridge made of PVC with staining tray

Large type, extensible, for dishes and basins of 38 cm to 62 cm, can be fixed at a slanted or horizontal position, complete with staining tray made of PVC and 2 clamps made of PVC

41185010 Dimensions approx. 38 x 17 x 8 cm

Staining bridge made of PVC, without tray

Large type, extensible, can be fixed at a slanted or horizontal position, with 2 clamps

41186010 for dishes and basins of 38 cm to 62 cm



Spare staining tray made of PVC

also suitable as storage dish for pipettes etc.

41187010 Dimensions approx. 38 x 17 x 8 cm



Staining rack with glass tray

Metal rack made of plastic-coated wire with glass tray no. 42900004

41190010 Glass tray approx. 22 x 15 cm



Spare staining rack

made of plastic-coated wire (without glass tray)

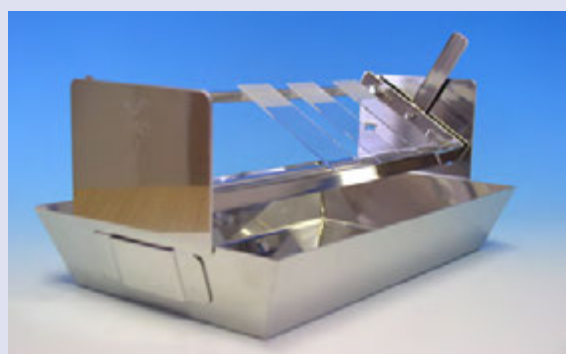
41191010 for trays of approx. 22 x 15 cm



Staining tray made of stainless steel with tilting rack

Slanted sides

41192010 Tray size approx. 24 x 14 x 4 cm





Staining rack made of stainless steel

with reliable device which tilts the microscope slides, suitable for glass trays no. 42900004 (without tray)

41198010 Length approx. 22 cm



Staining rack made of stainless steel according to Bongert

with glass tray no. 42900004

41200010 Glass tray approx. 22 x 15 cm

Staining Troughs and Jars



Glass jars with ground-in cover with knob and staining rack made of stainless steel

suitable for serial stainings, especially for the method according to Papanicolaou.

for microscope slides 26 mm wide

41201014 for 14 microscope slides

41201024 for 24 microscope slides

41201042 for 42 microscope slides

41201098 for 98 microscope slides



Staining rack circular, made of stainless steel, without jar

for microscope slides 26 mm wide

	for	Outside Ø
41202014	14 microscope slides	approx. 83 mm
41202024	24 microscope slides	approx. 96 mm
41202042	42 microscope slides	approx. 137 mm
41202098	98 microscope slides	approx. 191 mm

Glass jars with ground-in cover with knob

suitable for staining rack no. 41202014, 41202024, 41202042, 41202098

	for	Outside Ø	Height
41203014	14 microscope slides	approx. 100 mm	approx. 170 mm
41203024	24 microscope slides	approx. 120 mm	approx. 170 mm
41203042	42 microscope slides	approx. 160 mm	approx. 170 mm
41203098	98 microscope slides	approx. 220 mm	approx. 170 mm



Staining trough

consisting of:

Glass trough with cover and staining tray made of stainless steel, for staining of 10 microscope slides (without microscope slides) suitable for microscope slides of approx. 76 x 26 mm, width up to approx. 45 mm

Spare parts/accessories:

- 41205010** Staining trough
- 41205001** Glass trough with cover, approx. 9 x 7 x 6.5 cm
- 41205002** Glass trough without cover
- 41205003** Glass cover
- 41205004** Staining tray made of stainless steel
- 41205005** Staining tray made of stainless steel with extended handle



Dye-bath set

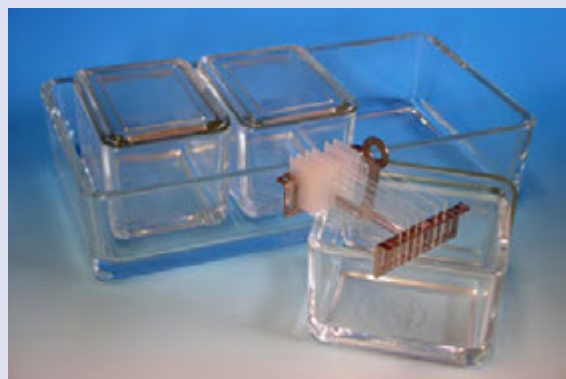
consisting of:

3 Glass troughs with cover no. 41205001

1 Staining tray no. 41205004

1 Glass tray 27.5 x 15 x 6 cm no. 42900005

41210010 This set is recommended for serial stainings and in order to avoid stains.



Staining Utensils

Staining trough made of glass with cover

Rectangular

41230010 Dimensions approx. 85 x 40 x 20 mm



Staining jars made of glass with cover, cylindrical

41231010 Dimensions approx. 85 x 40 mm Ø



Oval

41232010 Dimensions approx. 85 x 40 mm



Staining prisms made of glass according to Borel

suitable for staining jars, circular, no. 41231010

	Width	Height
41234010	approx. 25 mm	approx. 65 mm



Staining Dishes and Staining Bottles

Staining dishes

according to Schiefferdecker, SMG glass

with cover, for 10 microscope slides of approx. 76 x 26 mm
or for 20 slides back to back

42450110 Dishwasher-safe



according to Schiefferdecker

with cover, for 10 microscope slides of approx. 76 x 26 mm
or for 20 slides back to back

42450010 Soda glass

according to Hellendahl, SMG glass, with extension

with cover, for 8 microscope slides of approx. 76 x 26 mm
or for 16 slides back to back

42460110 Dishwasher-safe



Staining dishes according to Hellendahl, with extension

with cover, for 8 microscope slides of approx. 76 x 26 mm
or for 16 slides back to back

42460010 Soda glass

according to Hellendahl, SMG glass, without extension

with cover, for 8 microscope slides of approx. 76 x 26 mm
or for 16 slides back to back,
dimensions approx. 85 x 35 x 95 mm

42461110 Dishwasher-safe

according to Hellendahl, without extension

with cover, for 8 microscope slides of approx. 76 x 26 mm
or for 16 slides back to back,
dimensions approx. 85 x 35 x 95 mm

42461010 Soda glass



Coplin staining jars made of polypropylene

with screw cap, for 10 microscope slides of approx. 76 x 26 mm

	autoclavable up to	Max. temperature for use	Height
42470020	+121 °C/+249.8 °F (2 bar)	+125 °C/+257 °F	approx. 94 mm



Staining jars according to Coplin, SMG glass

with cover, for 10 microscope slides of approx. 76 x 26 mm

42470110 Dishwasher-safe

Staining jars according to Coplin

with cover, for 10 microscope slides of approx. 76 x 26 mm

42470010 Soda glass



Staining troughs with cover, SMG glass

with cover, suitable for staining tray no. 42481110

Dimensions approx. 105 x 85 x 80 mm

42480110 Dishwasher-safe

Staining troughs with cover

suitable for staining tray no. 42481010

Dimensions approx. 105 x 85 x 80 mm

42480010 Soda glass



Staining trays, SMG glass

fitting into trough no. 42480110,

for 10 microscope slides of approx. 76 x 26 mm or any other width up to approx. 50 mm (or for 20 slides back to back)

42481110 Dishwasher-safe

Staining trays

fitting into trough no. 42480010
for 10 microscope slides of approx. 76 x 26 mm or any width
up to approx. 50 mm (or for 20 slides back to back)

42481010 Soda glass

Wire handles

for staining trays no. 42481010 and 42481110

42482010 Wire handles



Staining bottles / Pipette bottles

Pipette bottles made of clear glass

with ground-in interchangeable pipette with olive at top

42600008 Capacity 50 ml

42600016 Capacity 100 ml



Pipette bottles made of amber glass

with ground-in interchangeable pipette with olive at top

42601008 Capacity 50 ml

42601016 Capacity 100 ml



Rubber teats made of siliconised latex

suitable for pipette bottles, Pasteur pipettes etc.

	Capacity	Opening Ø
42620010	approx. 2 ml	approx. 4-5 mm





Staining stands made of hardwood

with 3 amber pipette bottles

no. 42601008, capacity 50 ml

42608010 without rubber teats

42608020 with rubber teats



with 3 pipette bottles, clear glass

no. 42600008, capacity 50 ml

42609010 without rubber teats

42609020 with rubber teats



with 6 amber pipette bottles

no. 42601008, capacity 50 ml

42610010 without rubber teats

42610020 with rubber teats



Staining stands made of hardwood with 6 pipette bottles, clear glass

no. 42600008, capacity 50 ml

42611010 without rubber teats

42611020 with rubber teats

Microscope Slides, Spot Plates and Accessories

Microscope slides

with 1 cavity, CE

Clear glass, ground edges

	Packing/box	Thickness	Dimensions
42410010	50 pieces	approx. 1.5 mm	approx. 76 x 26 mm



Microscope slides with 2 cavities, CE

Clear glass, ground edges

	Packing/box	Thickness	Dimensions
42411010	50 pieces	approx. 1.5 mm	approx. 76 x 26 mm



with 3 cavities, CE

Clear glass, ground edges

	Packing/box	Thickness	Dimensions
42412010	50 pieces	approx. 1.5 mm	approx. 76 x 26 mm



with 1 cavity of approx. 22 mm Ø, CE

Clear glass, ground edges

	Packing/box	Thickness	Cavity	Dimensions
42415010	20 pieces	3-4 mm	approx. 1.75 mm deep	approx. 76 x 26 mm



Glass plates with 12 cavities

Frosted surface, individually packed

	Cavities	Dimensions
42417010	approx. 1.8 mm deep, approx. 16 mm Ø	approx. 76 x 60 x 5 mm

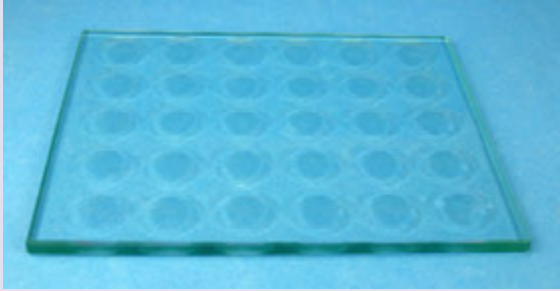


Glass plates with 24 cavities

Frosted surface, individually packed

	Cavities	Dimensions
42418010	approx. 1.6 mm deep, approx. 16 mm Ø	approx. 140 x 85 x 3 mm

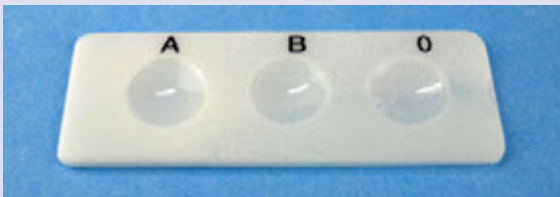




Glass plates with 30 cavities

Blank surface, individually packed

	Dimensions	Cavities
42419010	approx. 180 x 130 x 6 mm	approx. 2 mm deep, approx. 22 mm Ø



Microscope slides made of opal glass, CE, marked A, B, O

for blood typing, with frosted label, ground edges, with 3 polished cavities

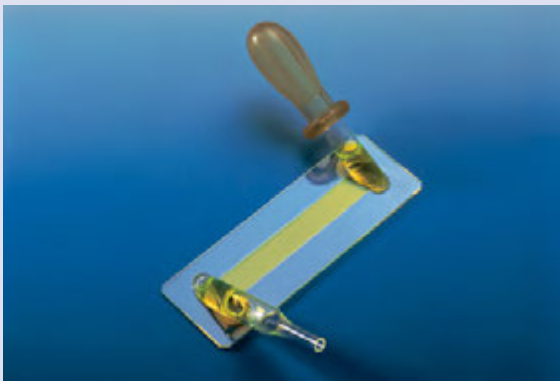
	Cavities	Dimensions
42430010	approx. 1.75 mm deep, approx. 20 mm Ø	approx. 120 x 40 x 3 mm



Microscope slides made of opal glass, CE, marked Anti-A, Anti-B, Anti-AB, Anti-Rh

for blood typing, with frosted label, ground edges, with 4 polished cavities

	Cavities	Dimensions
42432010	approx. 1.75 mm deep, approx. 20 mm Ø	approx. 130 x 40 x 3 mm



Microscope slide pipette

This system combines the function of pipette and microscope slide. The cover glass with standard thickness 1 - in correct flatness - enables microscopic contrasting procedures such as bright field, dark field, transmitted light-polarisation, fluorescence, phase contrast and interference contrast.

Quick cleaning and - after that - immediate use for serial examinations e.g. in hydrobiology for plankton or the microscopic control of biological floc in sewage treatment plants.

Other areas of application: Chemical or physical tests, e.g. crystal growth or the precipitation of metal salts.

Heat-resistant up to +180 °C/+356 °F (when using a silicone teat) and resistant to diluted acids and alkaline solutions.

	Microscope slide	Cover glass thickness	Capacity	Observation field dimensions
42427010	76 x 26 mm	approx. 0.15 mm	approx. 1 ml	approx. 40 x 8 x 0.25 mm



Dissecting needles

made of chromium-nickel steel, stainless, with wooden handle

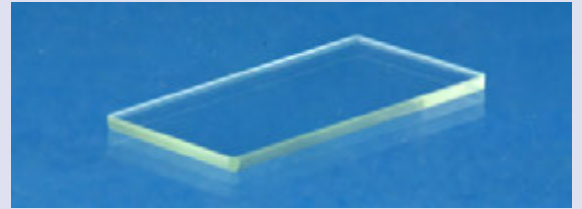
	Handle length	Total length
42712010	approx. 100 mm	approx. 140 mm

Blood smear slides and glass spot plates

Blood smear slides according to Undritz, CE

Clear glass, both sides polished, bevelled edges and corners

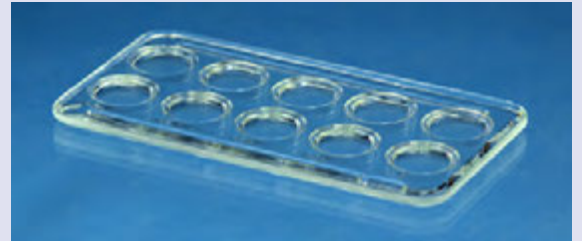
	Thickness	Dimensions
40619010	1.6 - 1.7 mm	approx. 40 x 20 mm



Glass spot plates with 10 cavities

Börner test slides for flocculation tests, with 10 numbered cavities, two edges at the bottom

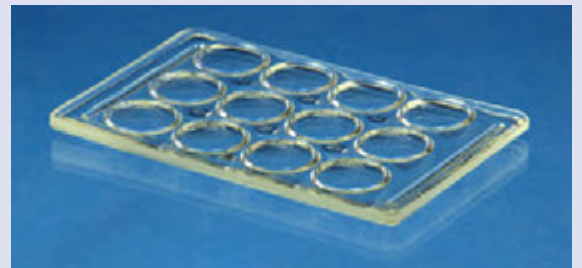
	Dimensions	Cavity Ø	Cavity
40623010	approx. 105 x 55 x 5 mm	approx. 14 mm	approx. 2 mm deep



Glass spot plates with 12 cavities

for flocculation tests, with 12 numbered cavities, two edges at the bottom

	Dimensions	Cavity Ø	Cavity
40624010	approx. 89 x 57 x 4 mm	approx. 15 mm	approx. 0.8 mm deep



Porcelain plate for spot tests with 12 cavities

Glazed

	Dimensions	Cavity Ø	Cavity
40625010	approx. 115 x 91 x 12 mm	approx. 17 mm	approx. 2 mm deep



Microscope Slides

SuperFrost®, CE

Cut edges

Fully developed marking system for all preparations in medical and scientific laboratories.

The microscope slides SuperFrost® have a coated labelling field in one of 6 standard colours.

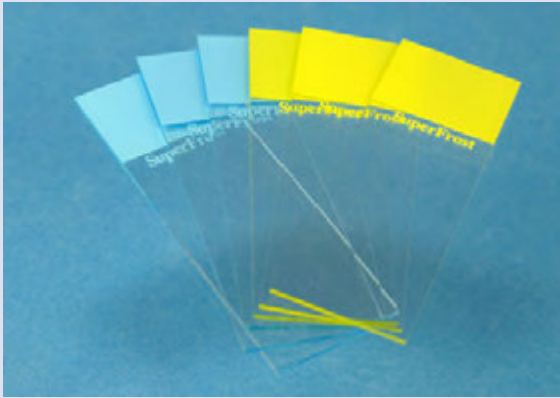
Preparations can be identified or marked according to urgency, examination method, staining technique etc. The coating of the labelling field is resistant to common solvents.

Dimensions: approx. 76 x 26 mm

Thickness: approx. 1 mm

Packing: 50 pieces/box

- 42408010** blue
- 42408020** yellow
- 42408030** green
- 42408040** orange
- 42408050** rose
- 42408060** white



SuperFrost® Plus, ground edges 90°

A permanent positive charge has been placed on these microscope slides.

Therefore they attract electrostatically fresh frozen tissue section and cytology preparations, binding them to the slides.

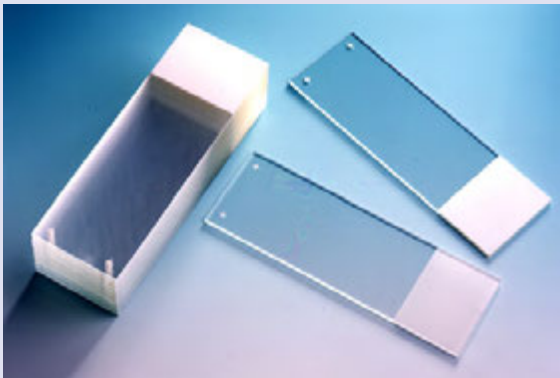
Recommended for anatomic and molecular pathology laboratories.

The microscope slides SuperFrost® Plus have proven to be superior for cell adhesion in cytocentrifuge preparations in standard Papanicolaou smears.

Preparations can be marked and identified by the coated labelling field. The coating of the labelling field is resistant to common solvents.

Thickness approx. 1 mm

	Packing/box	Dimensions	Colour code
42409110	72 pieces	approx. 75 x 25 mm	white



Polysine®, ground edges 90°

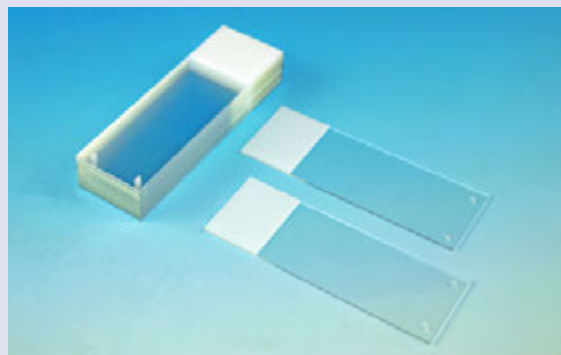
These slides come with a permanent adhesive. This provides superior cell and tissue adhesion and saves money and time by eliminating the need for expensive adhesives and time-consuming coating techniques.

These glass slides attract electrostatically and chemically

- fresh frozen tissue sections
- formalin fixed, paraffin embedded tissue sections
- cytocentrifuge preparations and cytology smears
- alcohol fixed, paraffin embedded tissues
- Bouin's or non-crosslinking fixed, paraffin embedded tissue sections

Thickness approx. 1 mm

	Packing/box	Dimensions	Colour code
42409210	72 pieces	approx. 75 x 25 mm	white



SuperFrost®, ground edges 90°

Fully developed marking system for all preparations in medical and scientific laboratories.

The microscope slides SuperFrost® have a coated labelling field in one of 6 colours, packing 50 pieces, dimensions approx. 76 x 26 mm. Preparations can be identified or marked according to urgency, examination method, staining technique etc. The coating of the labelling field is resistant to common solvents.

Thickness approx. 1 mm

42409010	blue
42409020	yellow
42409030	green
42409040	orange
42409050	rose
42409060	white



Microscope slides ELKA, cut edges, half-white, CE

Standard thickness, selected glass quality, non-corrosive, cleaned, ready for use

Packing: 50 pieces/box - 5000 pieces/carton

	Thickness	Dimensions
42400010	approx. 1 mm	approx. 76 x 26 mm



Microscope slides ELKAmed ECO, cut edges, CE

Proven glass quality, cleaned, ready for use
Packing: 50 pieces/box, 2500 pieces/carton

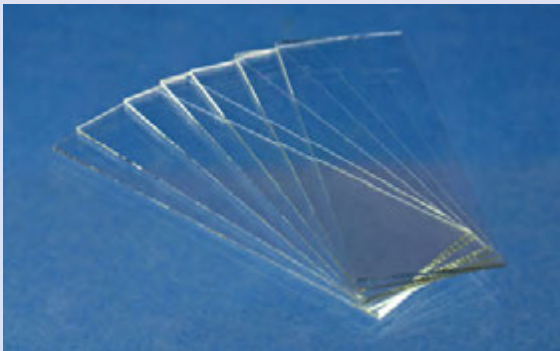
	Thickness	Dimensions
42400110	approx. 1 mm	approx. 76 x 26 mm



Microscope slides ELKA, ground edges 90°, half-white, CE

Standard thickness, selected glass quality, non-corrosive, cleaned, ready for use
Packing: 50 pieces/box - 5000 pieces/carton

	Thickness	Dimensions
42401010	approx. 1 mm	approx. 76 x 26 mm



Microscope slides ELKA, cut edges, half-white, extra thin, CE

Selected glass quality, non-corrosive, cleaned, ready for use
Packing: 50 pieces/box - 5000 pieces/carton

	Thickness	Dimensions
42404010	0.6-0.8 mm	approx. 76 x 26 mm



Microscope slides, with frosted end, cut edges, half-white, CE

Selected glass quality, non-corrosive, cleaned, ready for use, dimensions approx. 76 x 26 mm, thickness approx. 1 mm
Packing: 50 pieces/box, 5000 pieces/carton

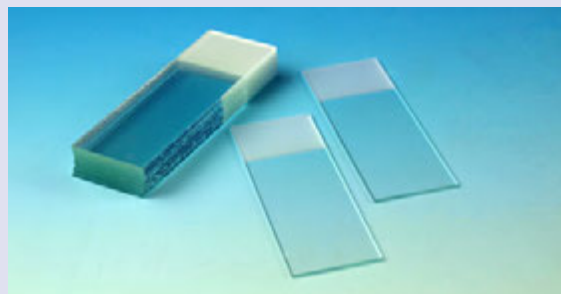
42406010 with frosted end on both sides

42406020 with frosted end on one side

Microscope slides ELKAmEd ECO, cut edges, with frosted end on both sides, CE

Proven glass quality, cleaned, ready for use
Packing: 50 pieces/box, 2500 pieces/carton

	Thickness	Dimensions
42406110	approx. 1 mm	approx. 76 x 26 mm

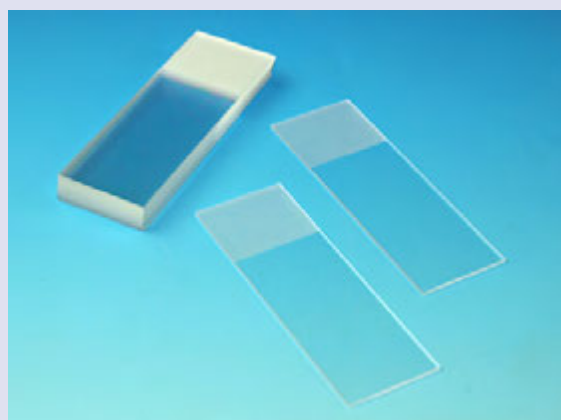


Microscope slides, with frosted end, ground edges 90°, half-white, CE

Selected glass quality, non-corrosive, cleaned, ready for use,
dimensions approx. 76 x 26 mm, thickness approx. 1 mm
Packing: 50 pieces/box, 5000 pieces/carton

42407010 with frosted end on both sides

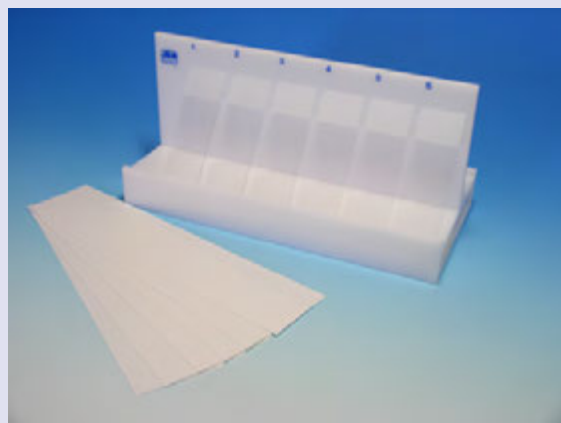
42407020 with frosted end on one side



Drying rack made of Plexiglas® for 12 microscope slides

for the drying of coloured slides with 12 numbered positions. The microscope slides are placed vertically on replaceable blotting paper. In the base of the drying rack is storing place for 2 packs of paper. Every drying rack comes with 2 packs of paper.

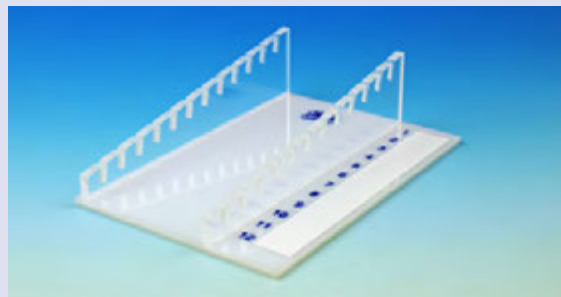
	Dimensions	Article
41238010	Height 105 mm	Drying rack
41238020	approx. 200 x 45 mm	Blotting paper 25 sheets/pack



Rack made of Plexiglas®

with numbering 1-12 and field for inscriptions

41240010 for 12 microscope slides

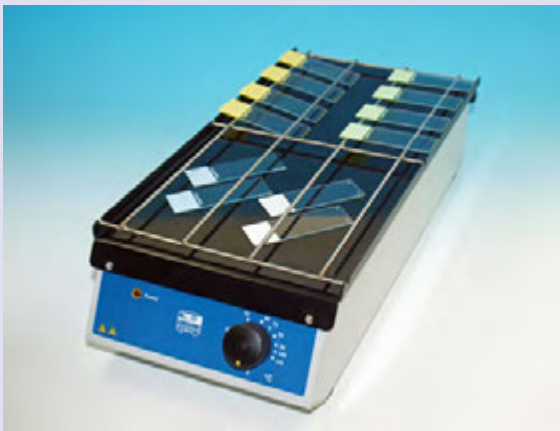




Microscope slide dispenser

Dustproof, practical storage, no finger prints by removing slides through touching the sides only, without slides

42440010 for 72 microscope slides of standard size 76 x 26 mm



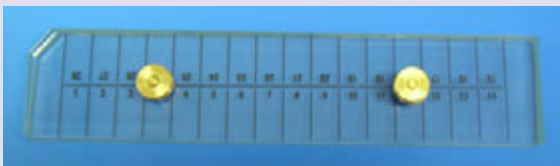
Microscope slide drying bench with heating, CE

speeds up the preparation of up to 48 slides of standard size 76 x 26 mm. The slides can be placed in any position:

- on bars
- against bars
- flat on heating foil

42395010

Weight	approx. 1.5 kg
Dimensions	approx. 400 x 186 x 105 mm (l x w x h)
Heating element	Heating foil
Case	Painted aluminium
Capacity	max. 150 W 230 V 50/60 Hz
Heating temperature	from room temperature up to max. +100 °C/+212 °F



Glass plates

for detection of trichinae

	Fields	Dimensions
41956028	28	approx. 230 x 50 mm

Equipment for Microscopy and Staining

Equipment

Bottles for cedar oil

with interchangeable ground-in, amber pipette, plastic cap and glass rod

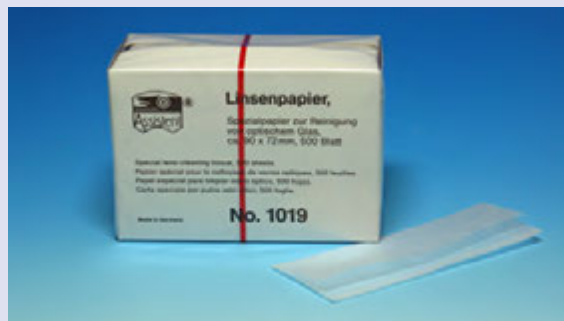
	Total height	Capacity	Ø	Height of flask
40920010	approx. 100 mm	approx. 40 ml	approx. 54 mm	approx. 60 mm



Lens tissue paper

Special paper for cleaning optical glass
Packing: 500 pieces/dispenser box

41019010 Dimensions approx. 90 x 72 mm



Cover glass forceps

Nickel-plated, bent

41020010 Length approx. 105 mm



Histokitt

Mounting medium for histology/microscopy.

Light-resistant, neutral, colourless, does not affect colour of the specimen, soluble e.g. in benzene, chloroform, dioxane, xylene in UN certified tinfoil bottle

	Hardening time	Capacity	Cold-resistant
41025010	20 minutes	500 ml	down to -17 °C/+1.4 °F



Petri dishes made of glass

with cover, sterilisable up to +121 °C/+249.8 °F

	Height of base	Cover Ø
41042006	approx. 1.2 cm	approx. 4 cm
41042012	approx. 1.5 cm	approx. 6 cm
41042018	approx. 1.5 cm	approx. 8 cm
41042024	approx. 2 cm	approx. 10 cm
41042030	approx. 2 cm	approx. 12 cm
41042036	approx. 2.5 cm	approx. 15 cm
41042042	approx. 5 cm	approx. 20 cm





Petri dishes made of polystyrene

Disposable, with vents and cover, packing: 480 pieces/box

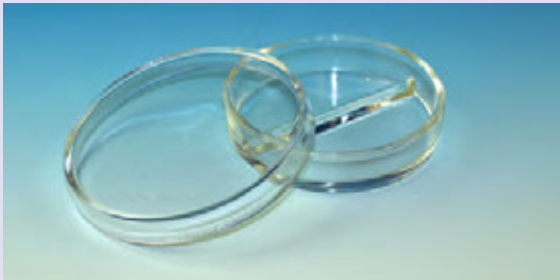
41043010 Diameter approx. 90 mm



Petri dishes made of glass with grid and cover

for examining trichinae

	Size of grid	Dimensions Petri dishes
41044010	approx. 10 x 10 mm	approx. 10 x 2 cm



Petri dishes with cover, DURAN® borosilicate glass 3.3

Cover approx. 10 cm Ø, height of base approx. 2 cm

41045002 Base with 2 equal compartments

41045003 Base with 3 equal compartments

41045004 Base with 4 equal compartments



Drigalski spatulas made of glass

for bacteriological work – equal spreading

	Total length	Side length	Width of spatula	Rod Ø
41049010	approx. 146 mm	approx. 35 mm	approx. 45 mm	approx. 5 mm



Marker pens

with clip, fineliner – for writing on glass, waterproof

41181004 red

41181008 black

41181010 blue

Glass-writing diamond pen

41182010 Total length approx. 150 mm



Bottles for Canada balsam with ground-on cap

with glass rod 4 mm Ø

	Capacity	Rod length
41710030	approx. 30 g	approx. 92 mm
41710060	approx. 60 g	approx. 120 mm



Bottles for Canada balsam with loose cap

with glass rod 4 mm Ø

	Capacity	Rod length
41720030	approx. 30 g	approx. 92 mm
41720060	approx. 60 g	approx. 120 mm

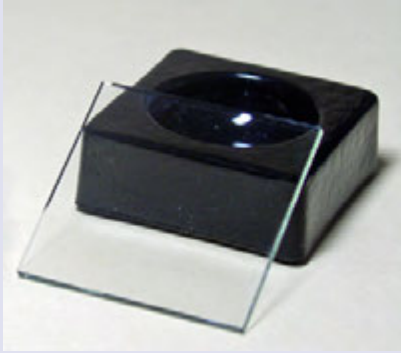


Staining blocks (Vaccine dishes), clear glass

with one cavity and cover made of clear glass

42020010 Dimensions approx. 4 x 4 cm





Staining blocks (Vaccine dishes), black glass
with one cavity and cover made of clear glass
42021010 Dimensions approx. 4 x 4 cm



Liquid Handling



Assimat

Dispenser Assimat

The economic dispenser for the daily routine

All parts which come in contact with liquids are made of polypropylene (PP), polyethylene (PE) and ethylene-propylene-diene rubber (EPDM rubber). This allows for precise dispensing of many media.

Limitations of use:

Liquids which do not affect the materials of the device can be dispensed with respect to the following limits:

- Vapour pressure up to 500 mbar
- Density up to 13.6 g/cm³
- Temperature up to +40 °C (+104 °F)

Liquids that should not be dispensed include e.g. concentrated or oxidising acids, non-polar solvents like hydrocarbons and halogenated hydrocarbons.

Accuracy $\leq \pm 1.2\%$ *, coefficient of variation $\leq 0.2\%$ *

* Final test values refer to the nominal volume (max. volume), which is imprinted on the device, at same temperature (+20 °C/+68 °F) of device, surrounding area and distilled water as well as at smooth, jerk-free operation.

Advantages:

- economical dispensing of non-aggressive liquids
- easy cleaning and maintenance
- all wearing parts, also pistons and cylinders, easily replaceable
- faultless volume adjustment, easy to read
- if required, dispensing cartridge easily and economically replaceable
- the lifting effect of a spring pushes the piston up, therefore the dispensing cartridge is being filled automatically
- directly attachable to standard bottles with GL 45 threads

	Division	Capacity
40163010	0.2 ml	1.0 - 10 ml
40163025	0.5 ml	2.5 - 25 ml

consisting of:

- 1 Assimat no. 40163...
- 2 dispensing cartridges no. 40164...
- 1 discharge tube no. 40165001
- 1 filling tube no. 40165...
- 2 adapters PP (GL 45/32 and GL 45/S 40)

Directions for use
(without bottle)

Accessories for Assimat

Dispensing cartridge

consisting of piston (PE) and cylinder (PP)
Pack of 3 pieces

40164010 for 10 ml

40164025 for 25 ml



Filling tube made of polypropylene

Pack of 2 pieces

40165002 Length approx. 250 mm

40165003 Length approx. 500 mm



Discharge tube made of polypropylene

Individually packed

40165001 Standard type (for 10 and 25 ml)



Valve set

40165004 consisting of 1 filling valve and 1 discharge valve, 2 seals





Piston Pipettes

Single channel pipettes and accessories

CappTrio Single channel pipettes fix including 3 detachable volume knobs

Volume change by quickly replacing the pre-calibrated volume knobs. Completely autoclavable (except volume knobs). Ideal for everyday work.

- 40101003** Volume μl 2, 10 and 20
- 40101006** Volume μl 25, 50 and 100
- 40101009** Volume μl 200, 500 and 1000

40101110 customer-specific

Knobs

40102110 customer-specific



Knobs for variable volume

- 40102113** 2 - 20 μl
- 40102116** 10 - 100 μl
- 40102119** 100 - 1000 μl



Knobs for fixed volume

- 40102003** Volume 2 μl
- 40102006** Volume 5 μl
- 40102009** Volume 10 μl
- 40102012** Volume 20 μl
- 40102015** Volume 25 μl
- 40102018** Volume 50 μl
- 40102021** Volume 100 μl
- 40102024** Volume 200 μl
- 40102027** Volume 500 μl
- 40102030** Volume 1000 μl

Capp Combi stand

expandable by attaching the plug connector

40104010 for up to 3 pipettes

**Disposable pipette tips, yellow**

Conformity certified, transparent, autoclavable, removable, made of non-wetting plastic - also suitable for piston pipettes from Brand, Eppendorf, La Fontaine, Gilson, Lab Systems

40110010 for volumes 1-100 μ l

**Disposable pipette tips, blue**

Conformity certified, transparent, autoclavable, removable, made of non-wetting plastic - also suitable for piston pipettes from Brand, Eppendorf, La Fontaine, Gilson, Lab Systems

40111010 for volumes 101-1000 μ l

**Disposable pipette tips, colourless**

Conformity certified, for Brand, Labsystems Finnpipette®

40112010 for volumes 500-5000 μ l





Assipettor

Digital, conformity certified

Capillary piston pipette, digital type, variable, volume fixing by locking lever, complete with precision glass capillary and directions for use

- is continuously variable and fixable with one hand
- can pipette nearly all kinds of liquids, even aggressive ones
- the pipetting liquid comes only in contact with chemically resistant materials (glass, stainless steel, PTFE and plastic)
- no air cushion because the PTFE or stainless steel plunger displaces directly; in this way extremely low spreading, which can be ignored in most cases
- Precision capillaries and plastic tips are reusable, which, in turn, leads to fewer expenses and garbage
- maintenance-free, replacement of capillaries and tips very easy, no readjustment necessary
- Capillaries and piston seals can be sterilised according to any method
- highest precision and accuracy possible because of precision capillaries and precision plastic tips
- Devices, capillaries and repair sets are marked with the well-known colour code

	Division	Capacity	Colour code	Coefficient of variation	Accuracy
40131008	0.01 µl	2.5-10 µl	orange	≤ 0.8 %	± 1.0 %
40131016	0.1 µl	5-25 µl	2x white	≤ 0.5 %	± 0.8 %
40131024	0.1 µl	10-50 µl	green	≤ 0.4 %	± 0.6 %
40131032	0.1 µl	20-100 µl	blue	≤ 0.4 %	± 0.6 %

Accuracy and coefficient of variation refer to distilled water at +20 °C (+68 °F) and the maximum volume.



Macro Assipettor digital, conformity certified

Piston pipette, digital volume display, variable, continuously adjustable - volume specification by locking lever, complete with precision plastic tip and directions for use

Accuracy ≤ ± 0.5 %, coefficient of variation ≤ 0.2 %

Accuracy and coefficient of variation refer to distilled water at +20 °C (+68 °F) and the maximum volume.

	Division	Capacity	Colour code
40132006	1 µl	100-500 µl	green
40132012	1 µl	200-1000 µl	yellow
40132018	10 µl	1-5 ml	red
40132024	10 µl	2-10 ml	orange

Assipettor fix, conformity certified

Capillary piston pipette, fixed volume, complete with precision capillary and directions for use

	Capacity	Colour code	Coefficient of variation	Accuracy
40140004	5 µl	white	≤ 0.8 %	≤ ± 1.0 %
40140012	10 µl	orange	≤ 0.8 %	≤ ± 1.0 %
40140020	20 µl	black	≤ 0.5 %	≤ ± 0.8 %
40140028	50 µl	green	≤ 0.4 %	≤ ± 0.6 %
40140036	100 µl	blue	≤ 0.4 %	≤ ± 0.6 %
40140042	200 µl	red	≤ 0.2 %	≤ ± 0.5 %

Accuracy and coefficient of variation refer to distilled water at +20 °C (+68 °F) and the maximum volume.



Storage stand for 2 Assipettors digital well as for accessories

40135010 made of Plexiglas®



Accessories and spare parts for Assipettor

Precision capillaries for Assipettor digital, 25 µl

Packing: 100 pieces/tube

40134030 Conformity certified



Tips made of polypropylene for macro Assipettors digital no. 40132...

Conformity certified, dispenser box fitting into the macro Assipettor stand no. 40135010, packing: 10 tips/dispenser box

- 40137006** for 500 µl
- 40137012** for 1000 µl
- 40137018** for 5 ml
- 40137024** for 10 ml





Spare plunger seals for macro Assipettors digital no. 40132...

made of polyethylene, conformity certified
Packing: 3 pieces

- 40138006** for 500 μ l
- 40138012** for 1000 μ l
- 40138018** for 5 ml
- 40138024** for 10 ml



Precision capillaries for Assipettors fix

Conformity certified
Packing: 100 pieces/tube

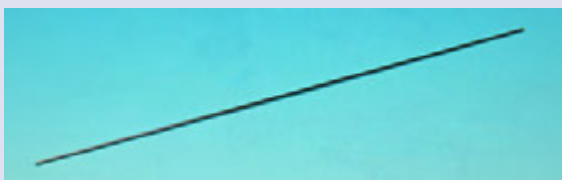
- 40144004** for 5 μ l
- 40144020** for 20 μ l



Repair sets for Assipettors fix

conformity certified
consisting of: 1 Allen key, 3 PTFE seals*, 1 mounting block for seals*, 1 plunger rod (with seal*), 3 O-rings for capillary mounting, 1 setting gauge, 1 screw, 1 screwdriver (* for sizes from 20 μ l)

- 40146004** for fix 5 μ l
- 40146020** for fix 200 μ l



Spare plunger rods for Assipettors fix

Conformity certified, made of stainless steel,
for sizes from size 20 μ l with PTFE seal
Packing: 3 pieces/tube

- 40147004** for 5 μ l
- 40147042** for 200 μ l



Precision capillaries for Assipettors fix and digital

Conformity certified

	for	Packing/box
40154012	fix + digital 10 μ l	100 pieces/tube
40154028	fix + digital 50 μ l	100 pieces/tube
40154036	fix + digital 100 μ l + Assipettor fix, 200 μ l	50 pieces/tube

Spare seals made of PTFE

Conformity certified, complete with mounting block
Pack of 3 pieces

- 40155020** for Assipettor fix, 20 μ l + digital, 25 μ l
- 40155028** for Assipettor fix + digital, 50 μ l
- 40155036** for Assipettor fix + digital, 100 μ l + fix, 200 μ l



Repair sets for Assipettors digital and fix

Conformity certified
consisting of: 1 Allen key, 3 PTFE seals*, 1 mounting block for seals*,
1 plunger rod (with seal*), 3 O-rings for capillary mounting, 1 setting
gauge, 1 screw, 1 screwdriver (* for sizes from 20 μ l)

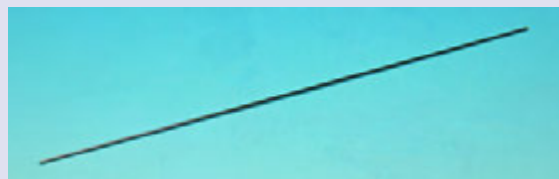
- 40156012** for fix + digital 10 μ l
- 40156020** for fix 20 μ l + digital 25 μ l
- 40156028** for fix + digital 50 μ l
- 40156036** for fix + digital 100 μ l



Spare plunger rods for Assipettors digital and fix

Conformity certified, made of stainless steel, for sizes from 20 μ l
with PTFE seal
Packing: 3 pieces/tube

- 40157012** for fix + digital 10 μ l
- 40157020** for fix 20 μ l + digital 25 μ l
- 40157028** for fix + digital 50 μ l
- 40157036** for fix + digital 100 μ l





Assi-Stepper and Accessories

Assi-Stepper

Manual dispenser, conformity certified, for quick and easy repetitive dispensing of liquids.

In combination with **PD tips** (precision dispenser tips), **up to 49 repetitive pipetting steps** can be done without refilling. The Assi-Stepper can be used with many devices, due to the easy operation together with the directly displacing PD tips.

Its flexibility is very useful, among other things, in the **microbiological, immunologic** and **biochemical** field.

Optimal filling of the individual cavities in microplates.

Ideal for serial pipetting. The device is **not** resistant to steam sterilisation.

The manual dispenser is suitable for PD-tips of Brand, Encode™ tips,

Repet tips, Combitips®, Combitips® plus and other compatible dispenser tips.

Liquids which do not affect polypropylene and HDPE may be pipetted.

40122010 Working temperature range: +15 °C/+59 °F
up to +40 °C/+104 °F



Spare support

for Assi-Stepper no. 40122010

40122001 made of plastic

Precision dispenser tips, non-sterile, conformity certified

for Assi-Stepper

Piston made of HDPE, cylinder made of PP

Working temperature: +15 °C/+59 °F up to +40 °C/+104 °F

	Capacity	Packing unit
40123004	0.1 ml	100 tips
40123008	0.5 ml	100 tips
40123012	1.0 ml	100 tips
40123016	1.25 ml	100 tips
40123020	2.5 ml	100 tips
40123024	5 ml	100 tips
40123028	10 ml	100 tips
40123032	12.5 ml	100 tips
40123036	25 ml	50 tips
40123040	50 ml	25 tips



Precision dispenser tips, sterile, conformity certified

for Assi-Stepper

β-sterile, free of endotoxin, individually wrapped

Piston made of HDPE, cylinder made of PP

Working temperature: +15 °C/+59 °F up to +40 °C/+104 °F

	Capacity	Packing unit
40124004	0.1 ml	100 tips
40124008	0.5 ml	100 tips
40124012	1.0 ml	100 tips
40124016	1.25 ml	100 tips
40124020	2.5 ml	100 tips
40124024	5 ml	100 tips
40124028	10 ml	100 tips
40124032	12.5 ml	100 tips
40124036	25 ml	25 tips
40124040	50 ml	25 tips

The **precision dispenser tips** (PD tips), conformity certified, CE-IVD

- meet the requirements of DIN ISO 8655
- are made of high-quality raw materials without chemical additives
- are manufactured without softening agents, lubricants or other additives.
- are available non-sterile and sterile/free of endotoxin
- an adapter is available for the sizes 25 and 50 ml.



Adapters for dispenser tips 25 and 50 ml, non-sterile

Polypropylene, autoclavable

40125010 Packing: 10 pieces/box

Adapters for dispenser tips 25 and 50 ml, sterile

Polypropylene, autoclavable, individually wrapped

40126010 Packing: 5 pieces

Digital Burettes and Accessories

"Contiburette μ 10", CE, without motor

Conformity certified up to 100 ml, with thread connection A 32, without bottle

Complete with

- discharge tube, bent
- suction tube
- 2 additional thread adapters A 45 and A 40
- directions for use



Continuous supply and measurement in the most common volume range from 0.01 up to 100 ml - using only one device.

It is possible to titrate even larger volumes up to max. 9999.99 ml.

- can be calibrated
- electronic measuring system
- liquid supplied is indicated to two decimal places
- minimal setting units 10 μ l
- no glass piston, no valves, minimal dead volume
- self-venting, measuring errors due to trapped gas or air bubbles are being avoided
- mechanical parts made of highly acid-resistant aluminium oxide (99.7 Al₂O₃)
- free rotatable on the bottle
- including two batteries AA 1.5 V for approx. 500 operating hours

	Temperature range	Dimensions	Weight
40210010	+10 +40 °C / +50 +104 °F	approx. 170 x 96 x 60 mm	approx. 360 g

Digital burette "Contiburette μ 10", CE, with motor

Conformity certified up to 100 ml, with thread connection A 32, without bottle, with plug-in power supply

Features like no. 40210010

	Temperature range	Supply quantity	Dimensions
40212010	+10 +40 °C / +50 +104 °F	approx. 15 ml per minute	approx. 170 x 96 x 60 mm

Spare discharge tube made of PTFE

40210020 for no. 40210010 and 40212010



Dispenser Digital and Variable

Dispenser digital

Type "Easy Calibration", conformity certified, with standard valve, without bottle

Safety is a key aspect of the bottle-top dispenser:

- No risk of spilling – because the dispenser is screwed directly onto the reagent bottle (thread adapters are included – additional adapters are available).
- No contact with aggressive media because the wetted piston is fully coated even in lifted condition.
- The discharge tube is made of FEP, with integrated valve.
- The bottle label is always visible because of movable discharge tube.
- Connection facility for drying tube.
- High precision – by means of precisely ground cylinders made of borosilicate glass, precision valves, exact and easily readable digital display.
- Volume steplessly adjustable
- Universal fields of application - in the entire laboratory field of medicine, chemistry, microbiology, industry, water management, schools and universities etc.
- not suitable for hydrofluoric acid, fluorine compounds, strong alkaline solutions.
- The device can be sterilised up to +121 °C (+249.8 °F), 2 bar.
- with thread A 45, FEP filling tube, FEP discharge tube, bent, and directions for use.

Coefficient of variation $\leq 0.1\%$, accuracy $\leq \pm 0.6\%$

	Division	Capacity	with thread adapter
40173002	0.01 ml	0.2-2 ml	A 25 A 28 A 32 A 38 S 40
40173005	0.02 ml	0.5-5 ml	A 25 A 28 A 32 A 38 S 40
40173010	0.05 ml	1.0-10 ml	A 25 A 28 A 32 A 38 S 40
40173025	0.10 ml	2.5-25 ml	A 32 A 38 S 40
40173050	0.20 ml	5.0-50 ml	A 32 A 38 S 40





Dispenser variable

Conformity certified, with standard valve, without bottle

Description see dispenser digital no. 40173...

	Division	Capacity	with thread adapter	Coefficient of variation	Accuracy
40183006	0.01 ml	0.05-0.5 ml	A 22 A 25 A 28 A 32	≤ 0.2 %	≤ ± 1.0 %
40183012	0.05 ml	0.2-2 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
40183018	0.1 ml	0.5-5 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
40183024	0.2 ml	1.0-10 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
40183030	0.5 ml	2.5-25 ml	A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
40183036	1.0 ml	5.0-50 ml	A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
40183042	1.0 ml	10-100 ml	A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %



Accessories for dispensers no. 40173... and no. 40183...

SafetyPrime™ venting valve for venting bubble-free

for updating the dispensers with standard valve

40175010 for dispensers 1-100 ml



Discharge tubes made of FEP with integrated valve

with safety screw cap

	for dispensers	Length
40187001	1, 2, 5, 10 ml	90 mm
40187002	25, 50, 100 ml	120 mm
40187011	0.5 ml	90 mm
40187012	25, 50, 100 ml	120 mm

40187012 and 40187011 with fine tip

Discharge tubing made of PTFE, flexible

- 40188001** for 1, 2, 5, 10 ml
- 40188002** for 25, 50, 100 ml



Thread bottles, amber glass

with screw cap made of polypropylene
Resistant to steam sterilisation up to +121 °C/+249.8 °F

	Capacity	Thread	Pattern
40190018	250 ml	A 32 mm	square
40190024	500 ml	A 32 mm	square
40190030	1000 ml	A 45 mm	square
40190036	2500 ml	A 45 mm	round



Thread adapters

	Outside thread	for bottle thread	Material
40193004	32 mm	A 22	Polypropylene
40193008	32 mm	A 25	Polypropylene
40193012	32 mm	A 28	Polypropylene
40193016	32 mm	A 30	Polypropylene
40193020	45 mm	A 32	Polypropylene
40193028	32 mm	A 45	Polypropylene
40193032	32 mm	A 25	ETFE
40193036	32 mm	A 28	ETFE
40193040	45 mm	A 38	ETFE
40193044	32 mm	A 45	ETFE
40193048	32 mm	S 40	Polypropylene
40193052	45 mm	S 40	Polypropylene



Adapters for standard grounds

made of polypropylene, thread outside 32 mm

- 40194019** with joint size 19/26
- 40194024** with joint size 24/29
- 40194029** with joint size 29/32





Filling tubes made of FEP

Length individually adjustable

	for dispensers	Length
40199002	0.5 - 10 ml	125-240 mm
40199003	0.5 - 10 ml	195-350 mm
40199004	25 - 100 ml	250-480 mm



Multichannel Pipette

CE

Conformity certified, variable with digital display and 8 channels, for precise and safe pipetting of liquids

The operation principle is air displacement in the range of 50 to 300 µl in steps of 5 µl.

Highest quality, technical perfection and light weight are the main features of this pipette, which is suitable for all microtitration techniques.

It offers excellent results in precision and accuracy. The tips can be attached easily with a new tip cone construction.

	Division	Capacity	Precision	Accuracy
40120010	5 µl	50-300 µl	< 0.5 % to < 0.8 %	< 1.0 % to < 1.5 %



Special tips made of polypropylene, CE

300 µl, for no. 40120010, autoclavable at +121 °C/+249.8 °F

40120001 Packing: 96 pieces/tray rack

40120002 Packing: 1000 pieces/box



Volumetric Instruments and Accessoires

Certificates for instruments, conformity certified

Load certificate and single certificate

Batch certificate

Our conformity certified volumetric glass instruments are furnished with a batch marking. Every complete packaging unit comes with a test certificate.

The test certificate contains information about test object, measuring conditions, average value and standard deviation among other things.

The batch certificate can be requested subsequently. Therefore we need article and batch number.

The batch number is made up of production year followed by the batch, e.g. 16.3

Individual certificate of performance

The delivery of volumetric glass instruments with individual certificate of performance is possible on request. The volumetric glass instrument gets an individual number. The number is attached to the volumetric glass instrument in addition to the batch number and is contained in the individual certificate of performance, e.g. 16.3 0024.

Further information in the individual certificate of performance: Information about test object, ascertained weigh value, measuring conditions.

Volumetric instruments in compliance with USP (United States Pharmacopeia)

Our volumetric instruments are manufactured according to current DIN EN ISO standards. Do you require volumetric instruments which comply with the standards of USP? We manufacture volumetric instruments with the error limits corresponding to the ASTM standards, which current USP describes in Chapter 31.

The measurements of ungraduated volumetric glass instruments meet the current DIN EN ISO standards; error limits specified in the ASTM standards are observed when adjusting.

One batch certificate, with which we confirm the compliance with ASTM standards, is supplied per packing unit.

Normally the production takes place order-related.

Volumetric instruments with DAkkS calibration certificate

Our volumetric instruments can be delivered with DAkkS calibration certificate upon request.

The volumetric glass instruments are checked by an external DAkkS testing laboratory. The testing laboratory issues the calibration certificate. The volumetric glass instruments get an individual serial number for identification.

Order numbers for volumetric instruments with certificate using the example of a volumetric pipette, conformity certified, 10 ml:

Batch certificate:	42556 0 52 - Number remains, batch certificate comes with every PU
Individual certificate of performance:	42556 6 52 – 3rd position righthand changes from 0 to 6
USP batch certificate:	42556 4 52 – 3rd position righthand changes from 0 to 4
DAkKS calibration certificate:	42556 8 52 – 3rd position righthand changes from 0 to 8

Burettes

are manufactured according to DIN EN ISO 385.

Accuracy classes

- Conformity certified
in accordance with class AS, waiting time: 30 s, short delivery times
Graduation with ring marks at main points.
Conformity mark and batch number are printed on each burette. A batch certificate is included in each original packing.

- Standard type
Higher accuracy than standard / class B
Tolerance: 1.5 times of the official tolerance of class AS
Short line graduation
No waiting time is claimed for class B according to the standard.

Calibration

Burettes are calibrated to deliver (marked "Ex").

Stopcocks

straight and lateral - with interchangeable standard ground plugs and reliable retaining devices;
strong quality, reinforced joints, calibrated faceted tips

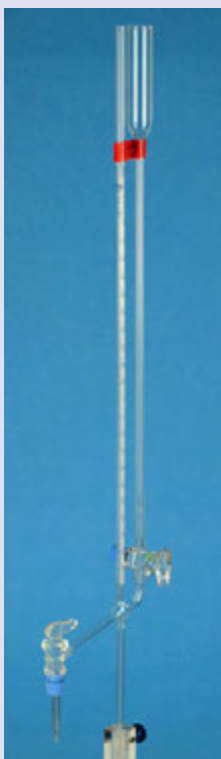
Micro burettes

according to Bang

Standard type, with lateral stopcock with interchangeable plug, Schellbach stripe and stable plexiglas® base, fused blue graduation "ASSISTENT-PERMANENT", short line graduation, calibrated to deliver (Ex)
Each in a box.

Stopcocks are available with PTFE plug or safety needle valve stopcock with spindle on request.

	Division	Tolerance	Capacity
40521008	0.01 ml	0.015 ml	2 ml
40521012	0.02 ml	0.015 ml	5 ml
40521016	0.02 ml	0.03 ml	10 ml



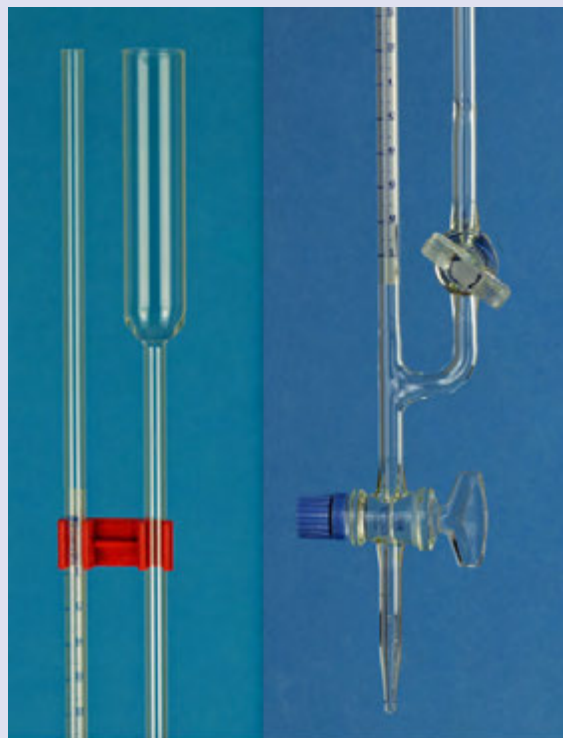
Micro burettes for use with a stand

for use with a stand, standard type, with straight stopcock with interchangeable plug and Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT", short line graduation, calibrated to deliver (Ex)

Each in a box.

Stopcocks are available with PTFE plug or safety needle valve stopcock with spindle on request.

	Division	Tolerance	Capacity
40523008	0.01 ml	0.015 ml	2 ml
40523012	0.02 ml	0.015 ml	5 ml
40523016	0.02 ml	0.03 ml	10 ml



Accessories for burettes

Burette tips

AR-Glas® (soda glass), with rubber tubing, for burettes with tubing connection

40780009 Length approx. 60 mm





Burettes with Schellbach stripe, DURAN® borosilicate glass 3.3

with straight stopcock with glass plug

Standard type, within 1.5 times of the official tolerance of class AS, short line graduation, short delivery time, fused blue graduation "ASSISTENT-PERMANENT"

	Division	Tolerance	Capacity
40791015	0.02 ml	0.030 ml	10 ml
40791022	0.05 ml	0.045 ml	25 ml
40791025	0.1 ml	0.075 ml	25 ml
40791050	0.1 ml	0.075 ml	50 ml

with straight stopcock with glass plug, conformity certified

Graduation with ring marks at main points, delivery time 35-45 s
Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Tolerance	Capacity
40791715	0.02 ml	0.020 ml	10 ml
40791722	0.05 ml	0.030 ml	25 ml
40791750	0.1 ml	0.050 ml	50 ml

Burettes with Schellbach stripe, DURAN® borosilicate glass 3.3, with lateral stopcock with glass plug, conformity certified

Graduation with ring marks at main points, delivery time 35-45 s
Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

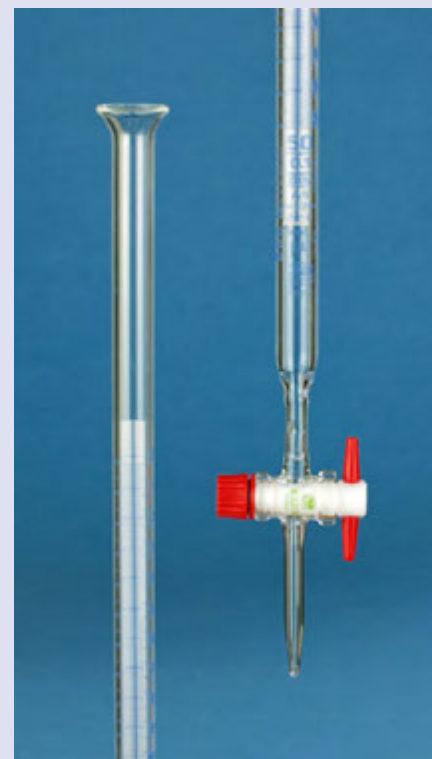
	Division	Tolerance	Capacity
40792715	0.02 ml	0.020 ml	10 ml
40792722	0.05 ml	0.030 ml	25 ml
40792750	0.1 ml	0.050 ml	50 ml

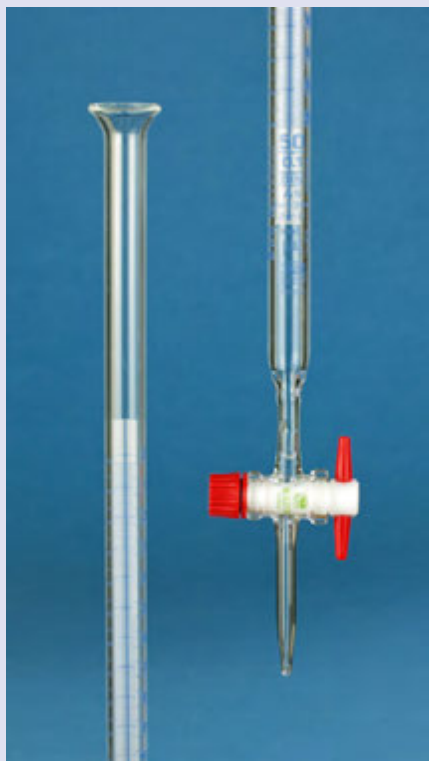


with straight stopcock with PTFE plug

Standard type, within 1.5 times of the official tolerance of class AS, short line graduation, short delivery time, fused blue graduation "ASSISTENT-PERMANENT"

	Tolerance	Division	Capacity
40793022	0.045 ml	0.05 ml	25 ml
40793025	0.075 ml	0.1 ml	25 ml
40793050	0.075 ml	0.1 ml	50 ml





Burettes with Schellbach stripe, DURAN® borosilicate glass 3.3, with straight stopcock with PTFE plug, conformity certified

Graduation with ring marks at main points

Delivery time 35-45 s

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Tolerance	Capacity
40793715	0.02 ml	0.020 ml	10 ml
40793722	0.05 ml	0.030 ml	25 ml
40793750	0.1 ml	0.050 ml	50 ml



with safety needle valve stopcock and PTFE spindle

Standard type, within 1.5 times of the official tolerance of class AS, short line graduation, short delivery time, fused blue graduation "ASSISTENT-PERMANENT"

	Division	Tolerance	Capacity
40795015	0.02 ml	0.030 ml	10 ml
40795022	0.05 ml	0.045 ml	25 ml
40795025	0.1 ml	0.075 ml	25 ml
40795050	0.1 ml	0.075 ml	50 ml

Burettes with Schellbach stripe, DURAN® borosilicate glass 3.3, with safety needle valve stopcock, PTFE spindle, conformity certified

Graduation with ring marks at main points, delivery time 35-45 s
Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Tolerance	Capacity
40795715	0.02 ml	0.020 ml	10 ml
40795722	0.05 ml	0.030 ml	25 ml
40795750	0.1 ml	0.050 ml	50 ml

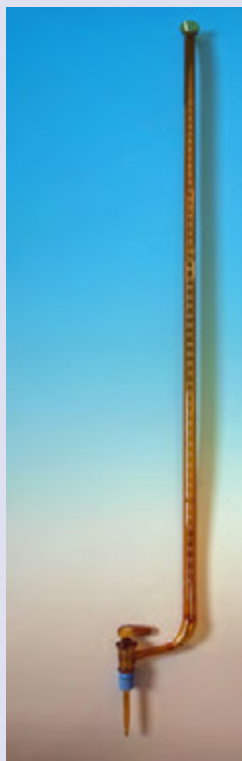


Burettes, amber glass, DURAN® borosilicate glass 3.3 with straight stopcock and glass plug

Standard type, within 1.5 times of the official tolerance of class AS, short line graduation, short delivery time, fused white graduation "ASSISTENT-PERMANENT"

	Tolerance	Capacity
40811025	0.075 ml	25 ml : 0.1
40811050	0.100 ml	50 ml : 0.1





with lateral stopcock and glass plug

Standard type, within 1.5 times of the official tolerance of class AS, short line graduation, short delivery time, fused white graduation "ASSISTENT-PERMANENT"

	Tolerance	Capacity
40812025	0.075 ml	25 ml : 0.1
40812050	0.100 ml	50 ml : 0.1



Schilling burettes

Automatic burette according to Dr. Schilling

Standard type, tolerance 1.5 times of the official tolerance of class AS

- improved special pinch cock with titration screw for precise regulation
- Plastic burette clamp, chemical-resistant, allows discharge drop by drop by slightly pushing
- Storage bottles made of polyethylene, with plastic base, filling of the burette by slightly pressing the bottle, in doing so automatic zero point adjustment
- Plastic tubing as riser
- Upper part of the burette is closed, design like the Pellet titration burette; thus soiling is being avoided
- Burette with Schellbach stripe and fused graduation "ASSISTENT-PERMANENT", calibrated, faceted outlet tip

Spare parts:

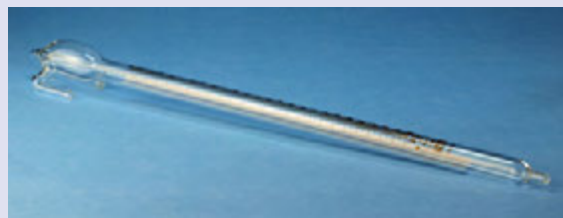
- Base no. 40823001 or 40823002
- Bottle
- Burette no. 40821...
- Clamp
- Discharge tubing, natural rubber
- Filling tubing made of PVC

	Division	Tolerance	Capacity	Bottle capacity
40820005	0.05 ml	0.050 ml	5 ml	500 ml
40820010	0.05 ml	0.050 ml	10 ml	500 ml
40820015	0.1 ml	0.100 ml	15 ml	500 ml
40820025	0.1 ml	0.100 ml	25 ml	1000 ml
40820050	0.1 ml	0.100 ml	50 ml	1000 ml

Spare burettes for no. 40820...

Standard type, tolerance 1.5 times of the official tolerance of class AS

	Division	Tolerance	Capacity
40821005	0.05 ml	0.050 ml	5 ml
40821010	0.05 ml	0.050 ml	10 ml
40821015	0.1 ml	0.100 ml	15 ml
40821025	0.1 ml	0.100 ml	25 ml
40821050	0.1 ml	0.100 ml	50 ml



Base made of polyethylene (HDPE) for no. 40820...

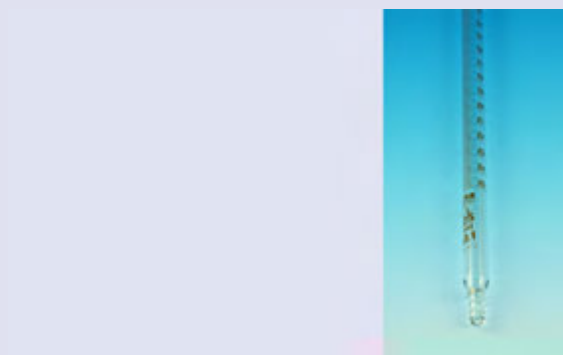
40823001 suitable for plastic bottles of 500 ml

40823002 suitable for plastic bottles of 1000 ml



Burettes DURAN® borosilicate glass 3.3, clear glass with tubing connection

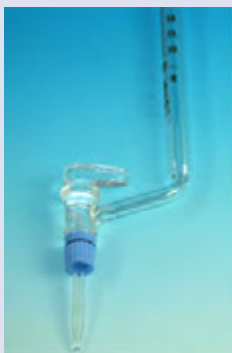
	Division	Capacity
40796015	0.02 ml	10 ml
40796022	0.05 ml	25 ml
40796025	0.10 ml	25 ml
40796050	0.10 ml	50 ml



with straight stopcock

	Division	Capacity
40797015	0.02 ml	10 ml
40797022	0.05 ml	25 ml
40797025	0.10 ml	25 ml
40797050	0.10 ml	50 ml





with lateral stopcock

	Division	Capacity
40798015	0.02 ml	10 ml
40798022	0.05 ml	25 ml
40798025	0.10 ml	25 ml
40798050	0.10 ml	50 ml



with straight stopcock with PTFE plug

	Division	Capacity
40799015	0.02 ml	10 ml
40799022	0.05 ml	25 ml
40799025	0.10 ml	25 ml
40799050	0.10 ml	50 ml



Burette stopcocks

Straight, soda-lime glass

with interchangeable standard ground plug, ground joint size 12.5, bore 2 mm Ø

- 41550010** with glass plug
- 41550020** with PTFE plug



Straight, DURAN® borosilicate glass 3.3

with interchangeable standard ground plug, ground joint size 12.5, bore 2 mm Ø

- 41551010** with glass plug
- 41551020** with PTFE plug

Burette stopcocks, lateral, soda-lime glass

with interchangeable standard ground plug, ground joint size 12.5, bore 2 mm Ø

41552010 with glass plug



Lateral, DURAN® borosilicate glass 3.3

with interchangeable standard ground plug, ground joint size 12.5, bore 2 mm Ø

41553010 with glass plug



Safety needle valve stopcock, lateral, AR-Glas® (soda glass)

with spindle made of PTFE, for burettes

41554010 Bore 2.5 mm Ø



Safety needle valve stopcock, lateral, DURAN® borosilicate glass 3.3

with spindle made of PTFE, for burettes

41555010 Bore 3 mm Ø





One-way stopcocks, DURAN® borosilicate glass 3.3

with glass plug, solid

DIN 12541, with reliable retaining device (screw thread or rubber cap)

	Bore	Outside Ø
41503002	2.5 mm	Joint size 14.5 mm
41503004	4 mm	Joint size 18.8 mm
41503006	6 mm	Joint size 21.5 mm



with plug made of PTFE

DIN 12541, with reliable retaining device (screw thread or rubber cap)

	Bore	Outside Ø
41504002	2.5 mm	Joint size 14.5 mm
41504004	4 mm	Joint size 18.8 mm



One-way stopcocks, soda-lime glass

with glass plug, solid

with reliable retaining device (screw thread)

	Bore	Thread
41510010	2 mm	12.5



with plug made of PTFE

with reliable retaining device (screw thread or rubber cap)

	Bore	Thread
41511010	2 mm	12.5



Two-way stopcocks (patent stopcocks), DURAN® borosilicate glass.3.3

with glass plug, solid

with double oblique bore, with reliable retaining device (screw thread)

	Bore	Thread
41522010	2.5 mm	14.5



with plug made of PTFE

with double oblique bore, with reliable retaining device

	Bore	Thread
41523010	2.5 mm	14.5

Stopcock grease

Silicone stopcock grease

Medium viscosity, excellent heat and cold resistance without considerable change of the consistency between -50 °C/-58 °F and +150 °C/+302 °F

41480035 35 g tube

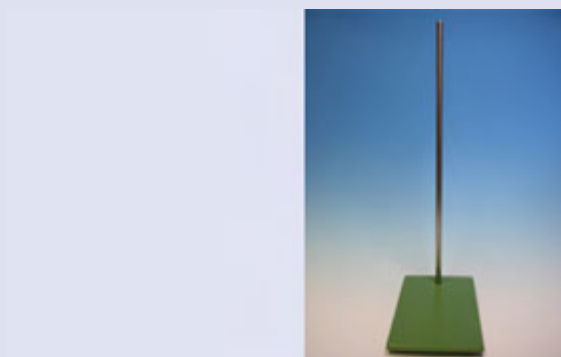


Accessories for Burettes

Burette stands, base approx. 18 x 10 cm

made of steel

40860010 Rod approx. 450 x 10 mm Ø



Burette stands, base approx. 21 x 13 cm

made of steel

40861010 Rod approx. 750 x 12 mm Ø

40861020 Rod approx. 1000 x 12 mm Ø

Bossheads, double

made of zinc die cast

40862020 for rods up to 16 mm Ø



Universal bossheads, double

made of zinc die cast, revolvable

40863010 for rods up to 20 mm Ø





Clamps

made of zinc die cast, without bosshead, with round jaws
Handle (hollow) approx. 150 x 12 mm, total length 240 mm

40865010 Opening up to approx. 12 - 25 mm

40865040 Opening up to approx. 20 - 40 mm



Clamps

made of zinc die cast, without bosshead, with round jaws
Handle (hollow) approx. 150 x 12 mm Ø, total length 260 mm

40866010 Opening up to approx. 38 - 60 mm



Rings without bosshead

made of malleable iron
Handle (hollow) approx. 180 x 12 mm Ø

	Inside Ø	Outside Ø
40868007	approx. 50 mm	approx. 70 mm
40868010	approx. 80 mm	approx. 100 mm
40868013	approx. 110 mm	approx. 130 mm



Rings with bosshead

made of malleable iron, for rods up to 16 mm Ø

	Inside Ø	Outside Ø
40869007	approx. 50 mm	approx. 70 mm
40869010	approx. 80 mm	approx. 100 mm
40869013	approx. 110 mm	approx. 130 mm



Burette clamps for one burette

made of zinc die cast, with bosshead
Opening up to approx. 20 mm

40870010 for rods up to 13 mm Ø



Burette clamps for two burettes

made of zinc die cast, with bosshead
Opening up to approx. 20 mm

40871010 for rods up to 13 mm Ø

Condenser clamps

made of malleable iron, without bosshead, revolving

40875010 Opening up to approx. 65 mm



Volumetric Flasks

are manufactured in accordance with DIN EN ISO 1042.

Accuracy classes

- Conformity certified
in accordance with class A
Conformity mark and batch number are printed on each volumetric flask. A batch certificate is included in each original packing.

- Standard type
Higher accuracy than standard / class B
Tolerance: 1.5 times of the official tolerance of class A

Calibration

Volumetric flasks are calibrated to contain (marked "In").

Standard ground joint

The stopper is interchangeable.

Please order glass stoppers separately if flasks with glass stoppers are required.

Volumetric flasks, standard type, DURAN® borosilicate glass 3.3

without stopper, without ground

fused blue graduation "ASSISTENT-PERMANENT", with rim

	Tolerance	Capacity
42089012	0.038 ml	10 ml
42089020	0.06 ml	20 ml
42089028	0.06 ml	25 ml
42089040	0.15 ml	50 ml
42089048	0.15 ml	100 ml
42089060	0.23 ml	200 ml
42089064	0.23 ml	250 ml
42089076	0.38 ml	500 ml
42089080	0.6 ml	1000 ml
42089092	1.2 ml	3000 ml
42089096	1.8 ml	5000 ml
42089099	3.0 ml	10000 ml

42089099 in addition to DIN - in conformity with the basic requirements of the standard



Volumetric flasks, standard type, DURAN® borosilicate glass 3.3, with standard ground joint and stopper made of polyethylene

Tolerance 1.5 times of the official tolerance of class A, fused blue graduation "ASSISTENT-PERMANENT"

	Tolerance	Capacity	Joint size
42094004	0.038 ml	5 ml	7/16
42094008	0.06 ml	5 ml	10/19
42094012	0.038 ml	10 ml	7/16
42094016	0.06 ml	10 ml	10/19
42094020	0.06 ml	20 ml	10/19
42094024	0.09 ml	20 ml	12/21
42094028	0.06 ml	25 ml	10/19
42094032	0.09 ml	25 ml	12/21
42094036	0.09 ml	30 ml (*)	12/21
42094040	0.15 ml	50 ml	12/21
42094044	0.12 ml	50 ml	14/23
42094048	0.15 ml	100 ml	12/21
42094052	0.15 ml	100 ml	14/23
42094056	0.15 ml	150 ml (*)	14/23
42094060	0.23 ml	200 ml	14/23
42094064	0.23 ml	250 ml	14/23
42094068	0.23 ml	300 ml (*)	14/23
42094072	0.38 ml	400 ml (*)	19/26
42094076	0.38 ml	500 ml	19/26
42094080	0.6 ml	1000 ml	24/29
42094084	0.9 ml	1000 ml	29/32
42094088	0.9 ml	2000 ml	29/32
42094092	1.2 ml	3000 ml	29/32
42094096	1.8 ml	5000 ml	34/35
42094099	3.0 ml	10000 ml (*)	45/40

* in addition to DIN





Volumetric flasks, conformity certified, DURAN® borosilicate glass 3.3

with standard ground joint and stopper made of polyethylene

Fused blue graduation "ASSISTENT-PERMANENT"

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Tolerance	Capacity	Joint size
42096004	0.025 ml	5 ml	7/16
42096008	0.04 ml	5 ml (*)	10/19
42096012	0.025 ml	10 ml	7/16
42096016	0.04 ml	10 ml (*)	10/19
42096020	0.04 ml	20 ml	10/19
42096024	0.06 ml	20 ml (*)	12/21
42096028	0.04 ml	25 ml	10/19
42096032	0.06 ml	25 ml (*)	12/21
42096040	0.06 ml	50 ml	12/21
42096044	0.10 ml	50 ml (*)	14/23
42096048	0.10 ml	100 ml	12/21
42096052	0.10 ml	100 ml	14/23
42096060	0.15 ml	200 ml	14/23
42096064	0.15 ml	250 ml	14/23
42096076	0.25 ml	500 ml	19/26
42096080	0.4 ml	1000 ml	24/29
42096084	0.6 ml	1000 ml (*)	29/32
42096088	0.6 ml	2000 ml	29/32
42096096	1.2 ml	5000 ml	34/35
42096099	2.0 ml	10000 ml (*)	45/40

* in addition to DIN

Volumetric flasks, conformity certified, DURAN® borosilicate glass 3.3, with standard ground joint, without stopper

Fused blue graduation "ASSISTENT-PERMANENT"
Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Tolerance	Capacity	Joint size
42097004	0.025 ml	5 ml	7/16
42097008	0.04 ml	5 ml	10/19
42097012	0.025 ml	10 ml	7/16
42097016	0.04 ml	10 ml (*)	10/19
42097020	0.04 ml	20 ml	10/19
42097024	0.06 ml	20 ml (*)	12/21
42097028	0.04 ml	25 ml	10/19
42097032	0.06 ml	25 ml (*)	12/21
42097040	0.06 ml	50 ml	12/21
42097044	0.10 ml	50 ml (*)	14/23
42097048	0.010 ml	100 ml	12/21
42097052	0.010 ml	100 ml (*)	14/23
42097060	0.15 ml	200 ml	14/23
42097064	0.15 ml	250 ml	14/23
42097076	0.25 ml	500 ml	19/26
42097080	0.4 ml	1000 ml	24/29
42097084	0.6 ml	1000 ml (*)	29/32
42097088	0.6 ml	2000 ml	29/32
42097096	1.2 ml	5000 ml	34/35
42097099	2.0 ml	10000 ml (*)	45/40

* in addition to DIN



Amber glass, with standard ground joint and stopper made of polyethylene, conformity certified

Fused white graduation "ASSISTENT-PERMANENT"
Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Tolerance	Joint size	Capacity
42102008	0.04 ml	10/19	5 ml
42102016	0.04 ml	10/19	10 ml
42102020	0.04 ml	10/19	20 ml
42102028	0.04 ml	10/19	25 ml
42102040	0.06 ml	12/21	50 ml
42102044	0.10 ml	14/23	50 ml
42102048	0.10 ml	12/21	100 ml
42102052	0.10 ml	14/23	100 ml
42102060	0.15 ml	14/23	200 ml
42102064	0.15 ml	14/23	250 ml
42102076	0.25 ml	19/26	500 ml
42102080	0.4 ml	24/29	1000 ml
42102088	0.6 ml	29/32	2000 ml



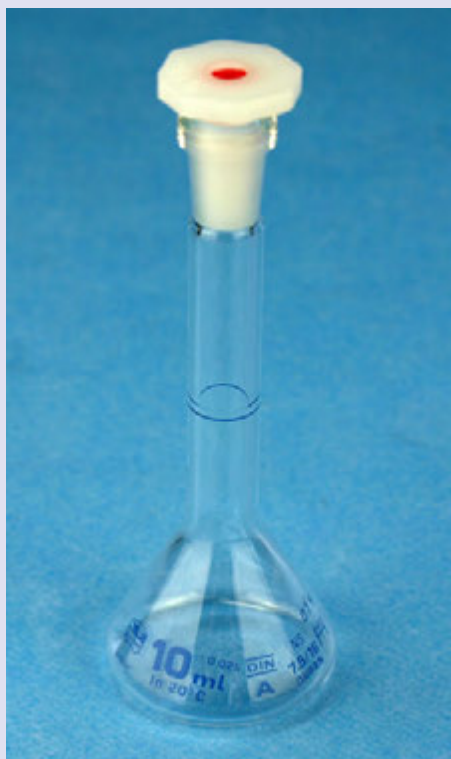


Volumetric flasks for sugar analyses

DURAN® borosilicate glass 3.3, standard type, fused blue graduation "ASSISTENT-PERMANENT", without stopper, with 2 marks

42109008 Capacity 50/55 ml

42109016 Capacity 100/110 ml



Volumetric flasks, trapezoidal, conformity certified, DURAN® borosilicate glass 3.3

with standard ground joint and interchangeable stopper made of polyethylene, fused blue graduation "ASSISTENT-PERMANENT" The base is considerably larger than of standard volumetric flasks with same volume, thus improved stability.

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Tolerance	Capacity	Joint size
42110006	0.025 ml	1 ml	7/16
42110012	0.025 ml	2 ml	7/16
42110018	0.025 ml	5 ml	7/16
42110024	0.025 ml	10 ml	7/16
42110030	0.04 ml	20 ml	10/19
42110036	0.04 ml	25 ml	10/19
42110042	0.06 ml	50 ml	12/21

Overflow volumetric flasks, DURAN® borosilicate glass 3.3

for water analysis

These flasks are also available in other sizes.

	Capacity	Height approx.
42115006	22.7 ml	7 cm
42115012	43.5 ml	8 cm
42115018	95 ml	8 cm
42115024	97 ml	9.5 cm
42115030	157 ml	11 cm
42115036	160 ml	11 cm
42115042	164 ml	11 cm
42115048	250 ml	14 cm
42115054	355 ml	13 cm
42115060	365 ml	12.5 cm
42115066	420 ml	13 cm
42115072	428 ml	16.5 cm
42115078	432 ml	15 cm



Measuring Cylinders

The measuring cylinders tall form are manufactured in accordance with DIN EN ISO 4788.

Accuracy classes

- Conformity certified
in accordance with class A
Graduation with ring marks at main points.
Conformity mark and batch number are printed on each cylinder. A batch certificate is included in each original box.

- Standard type
corresponding to class B, however higher accuracy
Tolerance: 1.5 times of the official tolerance of class A
Short line graduation

Calibration

Measuring cylinders are calibrated to contain (marked "In")

Measuring cylinders, tall form

DURAN® borosilicate glass 3.3, hexagonal base

Standard type, fused blue graduation "ASSISTENT-PERMANENT"

	Division	Capacity
42170012	0.2 ml	10 ml
42170018	0.5 ml	25 ml
42170024	1 ml	50 ml
42170030	1 ml	100 ml
42170048	2 ml	250 ml
42170060	5 ml	500 ml
42170066	10 ml	1000 ml
42170072	20 ml	2000 ml



Measuring cylinders, tall form, DURAN® borosilicate glass 3.3, hexagonal base, conformity certified

Fused blue graduation "ASSISTENT-PERMANENT"

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

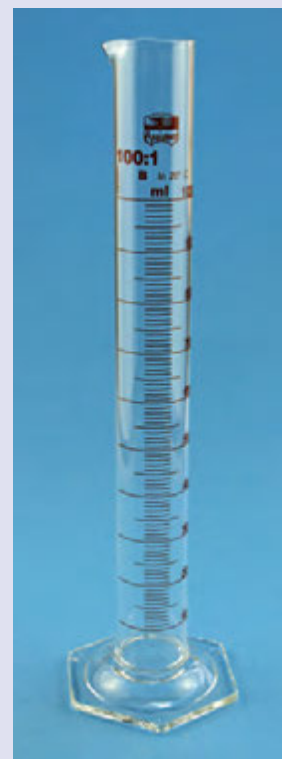
	Division	Capacity
42172012	0.2 ml	10 ml
42172018	0.5 ml	25 ml
42172024	1 ml	50 ml
42172030	1 ml	100 ml
42172048	2 ml	250 ml
42172060	5 ml	500 ml
42172066	10 ml	1000 ml
42172072	20 ml	2000 ml



DURAN® borosilicate glass 3.3, hexagonal base

Standard type, fused amber graduation "ASSISTENT-PERMANENT"

	Division	Capacity
42180006	0.1 ml	5 ml
42180012	0.2 ml	10 ml
42180018	0.5 ml	25 ml
42180024	1 ml	50 ml
42180030	1 ml	100 ml
42180048	2 ml	250 ml
42180060	5 ml	500 ml
42180066	10 ml	1000 ml
42180072	20 ml	2000 ml



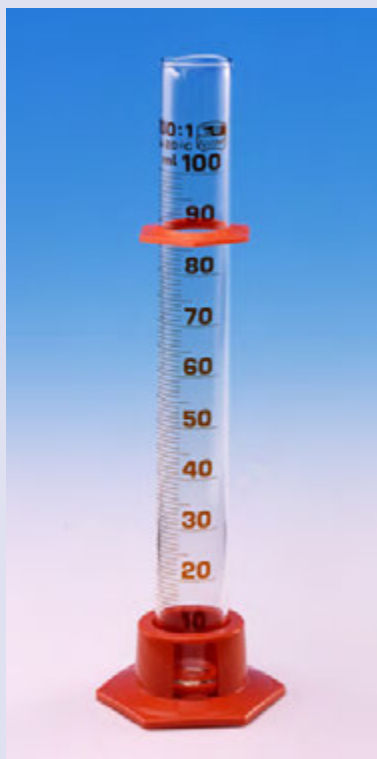


Measuring cylinders, tall form, DURAN® borosilicate glass 3.3, hexagonal base, conformity certified

Fused amber graduation "ASSISTENT-PERMANENT"

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Capacity
42182006	0.1 ml	5 ml
42182012	0.2 ml	10 ml
42182018	0.5 ml	25 ml
42182024	1 ml	50 ml
42182030	1 ml	100 ml
42182048	2 ml	250 ml
42182060	5 ml	500 ml
42182066	10 ml	1000 ml
42182072	20 ml	2000 ml



AR-Glas® (soda glass), with interchangeable hexagonal base and protecting ring made of polyethylene (HDPE)

Standard type, fused amber graduation "ASSISTENT-PERMANENT", base and protecting ring alkali- and acid-resistant, resistant to temperatures up to +120 °C/+248 °F

	Division	Capacity
42190012	0.2 ml	10 ml
42190018	0.5 ml	25 ml
42190024	1 ml	50 ml
42190030	1 ml	100 ml
42190048	2 ml	250 ml
42190060	5 ml	500 ml
42190066	10 ml	1000 ml

42190066 made of borosilicate glass 3.3

Measuring cylinders, tall form, AR-Glas® (soda glass), circular base

Standard type, fused amber graduation "ASSISTENT-PERMANENT".
Tolerance 1.5 times of the official tolerance of class A

	Division	Capacity
42200006	0.1 ml	5 ml
42200012	0.2 ml	10 ml
42200018	0.5 ml	25 ml
42200024	1 ml	50 ml
42200030	1 ml	100 ml
42200036	2 ml	150 ml
42200042	2 ml	200 ml
42200048	2 ml	250 ml
42200060	5 ml	500 ml (*)
42200066	10 ml	1000 ml (*)
42200072	20 ml	2000 ml (*)

* with hexagonal base



Tall form

for hydrometers, alcoholmeters etc.
for DIN EN ISO 4788 (except 15 ml, 60 ml, 150 ml, 200 ml)

	Height	Outside Ø	Capacity
44400006	approx. 115 mm	approx. 14 mm	approx. 5 ml
44400012	approx. 140 mm	approx. 14 mm	approx. 10 ml
44400015	approx. 110 mm	approx. 19 mm	approx. 15 ml
44400018	approx. 170 mm	approx. 19 mm	approx. 25 ml
44400024	approx. 200 mm	approx. 24 mm	approx. 50 ml
44400026	approx. 175 mm	approx. 28 mm	approx. 60 ml
44400030	approx. 260 mm	approx. 29 mm	approx. 100 ml
44400036	approx. 210 mm	approx. 39 mm	approx. 150 ml
44400042	approx. 265 mm	approx. 39 mm	approx. 200 ml
44400048	approx. 335 mm	approx. 39 mm	approx. 250 ml
44400060	approx. 390 mm	approx. 48 mm	approx. 500 ml (*)
44400066	approx. 440 mm	approx. 65 mm	approx. 1000 ml (*)
44400072	approx. 490 mm	approx. 85 mm	approx. 2000 ml (*)

* with hexagonal base





Low form

for DIN EN ISO 4788 (except 150 ml, 200 ml and 300 ml)

	Outside Ø	Capacity	Height
44401006	approx. 17 mm	approx. 5 ml	approx. 80 mm
44401012	approx. 20 mm	approx. 10 ml	approx. 100 mm
44401018	approx. 24 mm	approx. 25 ml	approx. 125 mm
44401024	approx. 29 mm	approx. 50 ml	approx. 150 mm
44401030	approx. 39 mm	approx. 100 ml	approx. 170 mm
44401036	approx. 48 mm	approx. 150 ml	approx. 170 mm
44401042	approx. 48 mm	approx. 200 ml	approx. 195 mm
44401048	approx. 48 mm	approx. 250 ml	approx. 225 mm (higher than DIN)
44401054	approx. 48 mm	approx. 300 ml	approx. 290 mm
44401060	approx. 65 mm	approx. 500 ml	approx. 255 mm
44401066	approx. 80 mm	approx. 1000 ml	approx. 295 mm
44401072	approx. 105 mm	approx. 2000 ml	approx. 345 mm

Measuring Cylinders

Measuring cylinders low form are manufactured in accordance with DIN EN ISO 4788.

Accuracy class

Standard type

Accuracy according to standard / class B

Short line graduation

Calibration

Measuring cylinders are calibrated to contain (marked "In")

Measuring cylinders, low form

with circular base

AR-Glas® (soda glass), standard type, fused amber graduation
"ASSISTENT-PERMANENT"

	Tolerance	Division	Capacity
42205006	0.1 ml	0.5 ml	5 ml
42205012	0.2 ml	1 ml	10 ml
42205018	0.5 ml	1 ml	25 ml
42205024	1 ml	2 ml	50 ml
42205030	1 ml	2 ml	100 ml
42205036	2 ml	5 ml	150 ml
42205042	2 ml	5 ml	200 ml
42205048	2 ml	5 ml	250 ml
42205060	5 ml	10 ml	500 ml
42205066	10 ml	20 ml	1000 ml
42205072	20 ml	50 ml	2000 ml



Measuring cylinders, low form, with interchangeable hexagonal plastic base and protecting ring made of polyethylene (HDPE)

AR-Glas® (soda glass), standard type, fused amber graduation "ASSISTENT-PERMANENT", base and protecting ring alkali-resistant and acid-proof, resistant to temperatures up to +120 °C / +248 °F

	Tolerance	Division	Capacity
42206012	0.2 ml	1 ml	10 ml
42206024	1 ml	2 ml	50 ml
42206030	1 ml	2 ml	100 ml
42206048	2 ml	5 ml	250 ml
42206060	5 ml	10 ml	500 ml



Mixing Cylinders

are manufactured in accordance with DIN EN ISO 4788.

Accuracy class

Standard type

Higher accuracy than standard / class B

Tolerance: 1.5 times of the official tolerance of class A

Short line graduation

Calibration

Mixing cylinders are calibrated to contain (marked "In")

Standard type

AR-Glas® (soda glass), circular base, with stopper made of polyethylene

Fused amber graduation "ASSISTENT-PERMANENT"

	Division	Capacity	Joint size
42210012	0.2 ml	10 ml	10/19
42210018	0.5 ml	25 ml	14/23
42210024	1 ml	50 ml	19/26
42210030	1 ml	100 ml	24/29
42210048	2 ml	250 ml	29/32



AR-Glas® (soda glass), with interchangeable hexagonal base and protecting ring made of polyethylene (HDPE), with stopper made of polyethylene

Fused amber graduation "ASSISTENT-PERMANENT", base and protecting ring acid-proof and alkali-resistant, temperature-resistant up to +120 °C/+248 °F

	Division	Joint size	Capacity
42211018	0.5 ml	14/23	25 ml
42211024	1 ml	19/26	50 ml
42211030	1 ml	24/29	100 ml
42211048	2 ml	29/32	250 ml
42211060	5 ml	34/35	500 ml





Sperm cylinders with funnel top, CE

Clear glass, with approximate scale, fused amber graduation
"ASSISTENT-PERMANENT"

Total height approx. 90 mm

42220010 Division 10 ml : 1 ml



Measuring Cylinders made of Plastic

made of polypropylene, hexagonal base, tall form, blue graduation

DIN 12681 and ISO 6706, graduation resistant up to +60 °C/+140 °F

	Tolerance	Capacity
42194012	0.2 ml	10 ml
42194018	0.5 ml	25 ml
42194024	1 ml	50 ml
42194030	1 ml	100 ml
42194048	2 ml	250 ml
42194060	5 ml	500 ml
42194066	10 ml	1000 ml
42194072	20 ml	2000 ml

Measuring cylinders made of polypropylene, hexagonal base, tall form, embossed scale

DIN 12681 and ISO 6706, sterilisable at +121 °C/+249.8 °F

	Tolerance	Capacity
42195012	0.2 ml	10 ml
42195018	0.5 ml	25 ml
42195024	1 ml	50 ml
42195030	1 ml	100 ml
42195048	2 ml	250 ml
42195060	5 ml	500 ml
42195066	10 ml	1000 ml
42195072	20 ml	2000 ml



Measuring cylinders, plastic, made of polymethylpentene (PMP), hexagonal base, tall form, embossed scale

DIN 12681 and ISO 6706, clear, sterilisable at +121 °C/+249.8 °F

	Tolerance	Capacity
42196012	0.2 ml	10 ml
42196018	0.5 ml	25 ml
42196024	1 ml	50 ml
42196030	1 ml	100 ml
42196048	2 ml	250 ml
42196060	5 ml	500 ml
42196066	10 ml	1000 ml
42196072	20 ml	2000 ml





made of polypropylene, circular base, low form, embossed scale

Transparent, resistant up to +80 °C/+176 °F

	Tolerance	Capacity
42208018	0.5 ml	25 ml
42208024	1 ml	50 ml
42208030	2 ml	100 ml
42208048	5 ml	250 ml
42208060	10 ml	500 ml
42208066	20 ml	1000 ml

Measuring Jugs

with spout and handle

made of glass, with scale

Height approx. 230 mm



	Capacity	Outside Ø
42281066	approx. 1 litre	approx. 90 mm
42281072	approx. 2 litres	approx. 127 mm



made of polypropylene, with scale

Transparent (urine measuring jugs)

	Division	Capacity
42283024	2 ml	50 ml
42283030	2 ml	100 ml
42283048	5 ml	250 ml
42283060	10 ml	500 ml
42283066	20 ml	1000 ml
42283072	50 ml	2000 ml
42283078	50 ml	3000 ml
42283084	100 ml	5000 ml

Measuring jugs with spout and handle made of polypropylene, with scale

Embossed scale, high clarity, ergonomic handle for secure grip, functional spout to minimise spills, suitable for microwave
Autoclavable up to +121 °C/+249.8 °F (2 bar),
maximum temperature +125 °C/+257 °F

	Division	Max. Ø	Capacity	Height
42284024	2 ml	40 mm	50 ml	70 mm
42284030	2 ml	50 mm	100 ml	80 mm
42284048	5 ml	74 mm	250 ml	120 mm
42284060	10 ml	95 mm	500 ml	140 mm
42284066	20 ml	117 mm	1000 ml	181 mm
42284072	50 ml	152 mm	2000 ml	213 mm
42284078	50 ml	172 mm	3000 ml	242 mm
42284084	100 ml	204 mm	5000 ml	270 mm



Measuring Jugs

Conical, polypropylene

Transparent, embossed scale, round base, autoclavable

	Capacity	Division	Height
42255042	100 ml	2 ml	approx. 120 mm
42255048	250 ml	5 ml	approx. 160 mm
42255054	500 ml	10 ml	approx. 180 mm
42255060	1000 ml	20 ml	approx. 270 mm



Bell shape

Clear glass, graduated

	Division	Capacity
42260006	1 ml	5 ml
42260012	1 ml	10 ml
42260018	1 ml	15 ml
42260024	1 ml	25 ml
42260030	1 ml	30 ml
42260036	2 ml	50 ml



Pycnometers

according to Gay-Lussac with ground-in stopper, unadjusted

- 42570008** Capacity 5 cm³
- 42570016** Capacity 10 cm³
- 42570024** Capacity 25 cm³
- 42570032** Capacity 50 cm³
- 42570040** Capacity 100 cm³



according to Gay-Lussac with ground-in stopper, precisely adjusted

- 42571008** Capacity 5 cm³
- 42571016** Capacity 10 cm³
- 42571024** Capacity 25 cm³
- 42571032** Capacity 50 cm³
- 42571040** Capacity 100 cm³



according to Gay-Lussac with ground-in stopper, precisely adjusted up to three decimal places

- 42571308** Capacity 5 cm³
- 42571316** Capacity 10 cm³
- 42571324** Capacity 25 cm³
- 42571332** Capacity 50 cm³
- 42571340** Capacity 100 cm³



Pycnometers with ground-in thermometer, precisely adjusted

Side capillary with ground-on cap joint size 7.5
 Flask of Erlenmeyer form, thermometer ground joint size 10/19,
 blue filling, +10 °C + 35 °C/+50 °F +95 °F: 0.2

- 42572016** Capacity 10 cm³
- 42572024** Capacity 25 cm³
- 42572032** Capacity 50 cm³
- 42572040** Capacity 100 cm³



with ground-in thermometer, precisely adjusted up to three decimal places

Side capillary with ground-on cap joint size 7.5
 Flask of Erlenmeyer form, thermometer ground joint size 10/19,
 blue filling, +10 °C +35 °C/+50 °F +95 °F : 0.2

- 42572308** Capacity 5 cm³
- 42572316** Capacity 10 cm³
- 42572324** Capacity 25 cm³
- 42572332** Capacity 50 cm³
- 42572340** Capacity 100 cm³

Demeter pipettes (Diluting pipettes)

DIN 12838 and DIN 12839, soda glass, with ring marks, fused amber
 graduation "ASSISTENT-PERMANENT", calibrated for blowing out up
 to 1 ml, other marks calibrated to deliver (Ex), length approx. 25 cm

	Tolerance	Marks at
42574001	0.05/0.005 ml	1.0/1.1 ml
42574002	0.05/0.05/0.005 ml	0.5/1.0/1.1 ml
42574004	0.05/0.05/0.005/0.005 ml	1.0/2.0/2.1/2.2 ml



Measuring Pipettes

are manufactured in accordance with DIN EN ISO 835.

Accuracy classes

- Conformity certified

in accordance with class AS, waiting time: 5 s, short delivery times

Graduation with ring marks at main points

Conformity mark and batch number are printed on each pipette. A

batch certificate is included in each original box.

- Standard type

Higher accuracy than standard / class B.

Tolerance: 1.5 times of the official tolerance of class AS

No waiting time is claimed for class B according to the standard.

Calibration

Calibrated to deliver (marked "Ex"): for volumes from 0.5 ml

Calibrated to contain (marked "In"): for volumes of 0.1 and 0.2 ml

Standard type

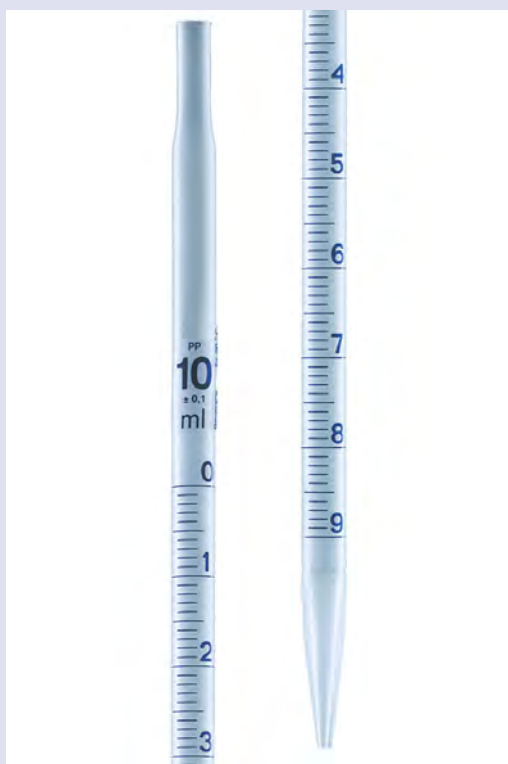
made of polypropylene

Calibrated to deliver "Ex", resistant to breakage. Exposure to temperature up to +60 °C/+140 °F will not cause permanent exceeding of error limits.

Cleaning temperature below +60 °C/+140 °F recommended to preserve marks and inscriptions.

Suction tube outside max. 8 mm Ø

	Division	Capacity	Length	Error limit
42525020	0.1 ml	1 ml	300 mm ± 10 mm	± 0.02 ml
42525028	0.1 ml	2 ml	300 mm ± 10 mm	± 0.02 ml
42525040	0.01 ml	5 ml	330 mm ± 10 mm	± 0.05 ml
42525048	0.1 ml	10 ml	320 mm ± 10 mm	± 0.1 ml



Measuring pipettes, standard type, clear glass, total delivery (calibrated up to the tip), serological pipettes

Short line graduation, standard type, tolerance 1.5 times of the official tolerance of class AS, short delivery time, zero point at top, fused amber graduation "ASSISTENT-PERMANENT"

Packing: 10 pieces/box

	Tolerance	Division	Capacity
42539016	0.008 ml	0.01 ml	0.5 ml
42539020	0.010 ml	0.01 ml	1 ml
42539036	0.015 ml	0.02 ml	2 ml
42539040	0.045 ml	0.1 ml	5 ml
42539044	0.045 ml	0.05 ml	5 ml
42539048	0.075 ml	0.1 ml	10 ml
42539052	0.150 ml	0.1 ml	20 ml
42539056	0.150 ml	0.1 ml	25 ml
42539060	0.300 ml	0.2 ml	50 ml



Measuring pipettes, standard model, clear glass, total delivery (calibrated up to the tip)

Short line graduation, standard type, tolerance 1.5 times of the official tolerance of class AS, short delivery time, zero point at top, fused blue graduation "ASSISTENT-PERMANENT"

Packing: 10 pieces/box

	Division	Tolerance	Capacity
42540004	0.001 ml	0.0015 ml	0.1 ml
42540008	0.001 ml	0.003 ml	0.2 ml
42540016	0.01 ml	0.008 ml	0.5 ml
42540020	0.01 ml	0.010 ml	1 ml
42540036	0.02 ml	0.015 ml	2 ml
42540040	0.1 ml	0.045 ml	5 ml
42540044	0.05 ml	0.045 ml	5 ml
42540048	0.1 ml	0.075 ml	10 ml
42540052	0.1 ml	0.150 ml	20 ml
42540056	0.1 ml	0.150 ml	25 ml
42540060	0.02 ml	0.300 ml	50 ml





Measuring pipettes, conformity certified

Clear glass, total delivery (calibrated up to the tip)

Graduation with ring marks at main points, short delivery time, fused amber graduation "ASSISTENT-PERMANENT", zero point at top
Packing: 10 pieces/box

	Tolerance	Division	Capacity
42541016	0.005 ml	0.01 ml	0.5 ml
42541020	0.007 ml	0.01 ml	1 ml
42541036	0.01 ml	0.02 ml	2 ml
42541040	0.03 ml	0.1 ml	5 ml
42541044	0.03 ml	0.05 ml	5 ml
42541048	0.05 ml	0.1 ml	10 ml
42541052	0.1 ml	0.1 ml	20 ml
42541056	0.1 ml	0.1 ml	25 ml
42541060	0.1 ml	0.2 ml	50 ml

42541060 in addition to DIN



Safety pipettes

Safety measuring pipettes with interchangeable, ground-in piston

Standard type, tolerance 1.5 times of the official tolerance of class AS, fused amber graduation "ASSISTENT-PERMANENT", calibrated, fire-polished, solid tip, zero point at top
Packing: Each in a solid plastic tube

	Division	Capacity
42548020	0.01 ml	1 ml
42548036	0.02 ml	2 ml
42548044	0.05 ml	5 ml
42548048	0.1 ml	10 ml
42548052	0.1 ml	20 ml
42548056	0.1 ml	25 ml



Pipettes made of glass, ungraduated

Diameter approx. 7 mm

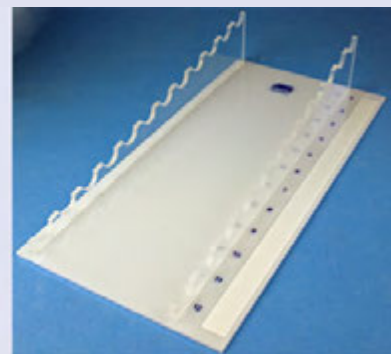
42569012	Length approx. 12 cm
42569015	Length approx. 15 cm
42569020	Length approx. 20 cm
42569025	Length approx. 25 cm

Equipment for pipettes

Pipette holders made of Plexiglas®

with field for inscription for 12 pipettes

42583010 Numbering 1-12



Pipette trays made of PVC

Stackable

42585010 Dimensions approx. 47 x 17 x 8 cm



Cover made of PVC

Transparent

42586010 for pipette tray no. 42585010



Pipette stands made of Plexiglas®

Sloping, for measuring pipettes and volumetric pipettes, cavities approx. 17.5 mm, width approx. 123 mm

	for	Height	Length
42590006	6 pipettes	approx. 181 mm	approx. 188 mm
42590012	12 pipettes	approx. 190 mm	approx. 350 mm





Racks for pipettes, Plexiglas®

Circular, base with foam pad to protect the pipette tips

42593010 for 20 pipettes

Volumetric Pipettes

are manufactured in accordance with DIN EN ISO 648.
On request the pipettes are available with safety bulb.

Accuracy classes

- Conformity certified

in accordance with class AS, waiting time: 5 s, short delivery times
Conformity mark and batch number are printed on each volumetric pipette. A batch certificate is included in each original box.

- Standard type

Higher accuracy than standard / class B

Tolerance: 1.5 times of the official tolerance of class AS

No waiting time is claimed for class B according to the standard.

Calibration

Calibrated to deliver (marked Ex)

Standard type

with 1 mark

Fused amber graduation "ASSISTENT-PERMANENT"

	Tolerance	Capacity	Packing/box
42550004	0.0075 ml	0.5 ml	10 pieces
42550008	0.01 ml	1 ml	10 pieces
42550016	0.015 ml	2 ml	10 pieces
42550024	0.015 ml	3 ml	10 pieces
42550028	0.020 ml	4 ml	10 pieces
42550032	0.020 ml	5 ml	10 pieces
42550036	0.020 ml	6 ml	10 pieces
42550040	0.020 ml	7 ml	10 pieces
42550052	0.030 ml	10 ml	10 pieces
42550056	0.045 ml	11 ml	10 pieces
42550064	0.045 ml	20 ml	6 pieces
42550068	0.045 ml	25 ml	6 pieces
42550080	0.075 ml	50 ml	6 pieces
42550084	0.12 ml	100 ml	6 pieces





made of polypropylene, with 1 mark

Resistant to breakage, calibrated to deliver "Ex".

Exposure to temperatures up to +60 °C/+140 °F will not cause permanent exceeding of error limits, cleaning temperature below +60 °C/+140 °F recommended to preserve marks and inscriptions

	Capacity	Length	Pattern	Error limit
42560008	1 ml	300 mm ± 10 mm	Straight	± 0.02 ml
42560016	2 ml	300 mm ± 10 mm	Straight	± 0.02 ml
42560032	5 ml	300 mm ± 10 mm	with bulb	± 0.03 ml
42560056	10 ml	440 mm ± 10 mm	with bulb	± 0.04 ml
42560068	25 ml	450 mm ± 10 mm	with bulb	± 0.06 ml
42560080	50 ml	460 mm ± 10 mm	with bulb	± 0.1 ml

Volumetric pipettes, conformity certified

with 1 mark

Class AS within the official tolerance, fused amber graduation "ASSISTENT-PERMANENT"

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)



	Tolerance	Capacity	Packing/box
42556004	0.005 ml	0.5 ml	10 pieces
42556008	0.007 ml	1 ml	10 pieces
42556016	0.01 ml	2 ml	10 pieces
42556020	0.01 ml	2.5 ml	10 pieces
42556024	0.01 ml	3 ml	10 pieces
42556028	0.015 ml	4 ml	10 pieces
42556032	0.015 ml	5 ml	10 pieces
42556040	0.015 ml	7 ml	10 pieces
42556044	0.02 ml	8 ml	10 pieces
42556048	0.02 ml	9 ml	10 pieces
42556052	0.02 ml	10 ml	10 pieces
42556060	0.03 ml	20 ml	6 pieces
42556064	0.03 ml	20 ml	6 pieces
42556068	0.03 ml	25 ml	6 pieces
42556072	0.05 ml	40 ml	6 pieces
42556076	0.05 ml	50 ml	6 pieces
42556080	0.05 ml	50 ml	6 pieces
42556084	0.08 ml	100 ml	6 pieces

Volumetric pipettes, conformity certified, with 2 marks

Class AS within the official tolerance, fused amber graduation
"ASSISTENT-PERMANENT"

	Tolerance	Packing/box	Capacity
42557004	0.005 ml	10 pieces	0.5 ml
42557008	0.007 ml	10 pieces	1 ml
42557016	0.01 ml	10 pieces	2 ml
42557024	0.01 ml	10 pieces	3 ml
42557028	0.015 ml	10 pieces	4 ml
42557032	0.015 ml	10 pieces	5 ml
42557064	0.03 ml	6 pieces	20 ml
42557080	0.05 ml	6 pieces	50 ml



Automatic Burettes and Accessories

Automatic burettes are manufactured in accordance with DIN EN ISO 385.

Accuracy classes

- Conformity certified
in accordance with class AS, waiting time: 30 s, short delivery times
Graduation with ring marks at main points
Conformity mark and batch number are printed on each burette.
A batch certificate is included in each original box.

- Standard type
Higher accuracy than standard / class B
Tolerance: 1.5 times of the official tolerance of class AS
Short line graduation
No waiting time is claimed for class B according to the standard.

Calibration

Automatic burettes are calibrated to deliver (marked "Ex")

Stopcocks

straight and lateral - with interchangeable standard ground plugs and reliable retaining devices;
strong quality, reinforced joints, calibrated faceted tips

Automatic burettes, standard type

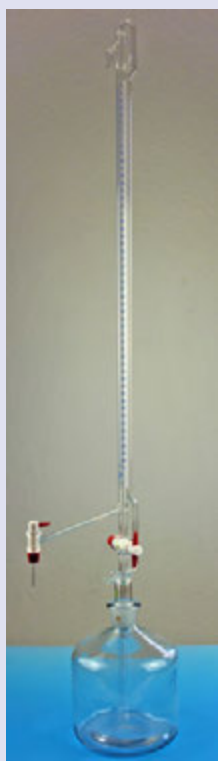
DURAN® borosilicate glass 3.3, with stopcock between burette and bottle

Burette with Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT"
consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41916054
- Rubber bulb no. 40850001

	Tolerance	Division	Capacity	Stopcock/Plug
48400022	0.045 ml	0.05 ml	25 ml	Both stopcocks with glass plug
48400025	0.075 ml	0.1 ml	25 ml	Both stopcocks with glass plug
48400050	0.075 ml	0.1 ml	50 ml	Both stopcocks with glass plug
48400122	0.045 ml	0.05 ml	25 ml	Both stopcocks with PTFE plug
48400125	0.075 ml	0.1 ml	25 ml	Both stopcocks with PTFE plug
48400150	0.075 ml	0.1 ml	50 ml	Both stopcocks with PTFE plug
48400322	0.045 ml	0.05 ml	25 ml	*
48400325	0.075 ml	0.1 ml	25 ml	*
48400350	0.075 ml	0.1 ml	50 ml	*

* Intermediate stopcock with PTFE plug, lateral safety needle valve stopcock and PTFE spindle



Automatic burettes, standard type, DURAN® borosilicate glass 3.3, without stopcock between burette and bottle

Burette with Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT"

consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41916054
- Rubber bulb no. 40850001

	Tolerance	Division	Capacity	Stopcock/Plug
48410022	0.045 ml	0.05 ml	25 ml	Delivery stopcock with glass plug
48410025	0.075 ml	0.1 ml	25 ml	Delivery stopcock with glass plug
48410050	0.075 ml	0.1 ml	50 ml	Delivery stopcock with glass plug
48410122	0.045 ml	0.05 ml	25 ml	Delivery stopcock with PTFE plug
48410125	0.075 ml	0.1 ml	25 ml	Delivery stopcock with PTFE plug
48410150	0.075 ml	0.1 ml	50 ml	Delivery stopcock with PTFE plug
48410222	0.045 ml	0.05 ml	25 ml	Lateral safety needle valve stopcock+PTFE spindle
48410225	0.075 ml	0.1 ml	25 ml	Lateral safety needle valve stopcock+PTFE spindle
48410250	0.075 ml	0.1 ml	50 ml	Lateral safety needle valve stopcock+PTFE spindle



Rubber bulbs for automatic burettes

One bulb, with valve - made of flexible PVC (free of cadmium)

	Inside Ø of the tubing	Tube length	Outside Ø of the tubing
40850001	approx. 4 mm	approx. 400 mm	approx. 8-9 mm



Rubber bulbs for automatic burettes (double with net)

with valve - made of flexible PVC (free of cadmium), bulb in net made of latex

	Tube length	Inside Ø of the tubing	Outside Ø of the tubing
40850002	approx. 350 mm	approx. 4 mm	approx. 8-9 mm





Automatic burettes, conformity certified

DURAN® borosilicate glass 3.3, with stopcock between burette and bottle

Class AS, with Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT", delivery time 35-45 s

consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41916054
- Rubber bulb no. 40850001

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Tolerance	Capacity	Stopcock/Plug
48415015	0.02 ml	0.020 ml	10 ml	Stopcocks with glass plug
48415022	0.05 ml	0.030 ml	25 ml	Stopcocks with glass plug
48415050	0.1 ml	0.050 ml	50 ml	Stopcocks with glass plug
48415315	0.02 ml	0.020 ml	10 ml	*
48415322	0.05 ml	0.030 ml	25 ml	*
48415350	0.1 ml	0.050 ml	50 ml	*

* Intermediate stopcock with PTFE plug, lateral safety needle valve stopcock and PTFE spindle



DURAN® borosilicate glass 3.3, without stopcock between burette and bottle

Class AS, with Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT", delivery time 35-45 s

Lateral safety needle valve stopcock with PTFE spindle

consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41916054
- Rubber bulb no. 40850001

Available with individual certificate of performance, USP batch certificate or DAkkS calibration certificate. Please indicate the request in your order! (see chapter beginning)

	Division	Tolerance	Capacity
48416215	0.02 ml	0.020 ml	10 ml
48416222	0.05 ml	0.030 ml	25 ml
48416250	0.1 ml	0.050 ml	50 ml

Automatic burettes, conformity certified, DURAN® borosilicate glass 3.3 amber, with stopcock between burette and bottle

Standard type, fused white "ASSISTENT-PERMANENT" graduation

Both stopcocks with glass plug

consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41917054
- Rubber bulb no. 40850001

	Division	Tolerance	Capacity
48452015	0.02 ml	0.050 ml	10 ml
48452025	0.1 ml	0.075 ml	25 ml
48452050	0.1 ml	0.100 ml	50 ml



DURAN® borosilicate glass 3.3 amber, without stopcock between burette and bottle

Standard type, burette with Schellbach stripe, fused white

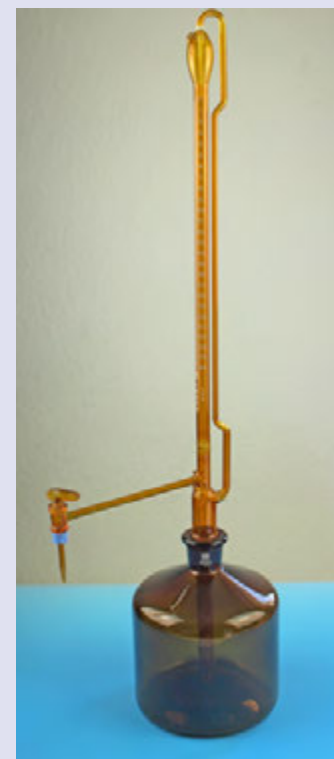
"ASSISTENT-PERMANENT" graduation

Delivery stopcock with glass plug

consisting of:

- Automatic burette
- Bottle 2 l with standard ground 29/32 no. 41917054
- Rubber bulb no. 40850001

	Division	Tolerance	Capacity
48462015	0.02 ml	0.050 ml	10 ml
48462025	0.1 ml	0.075 ml	25 ml
48462050	0.1 ml	0.100 ml	50 ml



**Bottles for automatic burettes****with standard ground, clear glass**

Total height approx. 200 mm, joint size 29/32

41916048 Capacity 1000 ml

41916054 Capacity 2000 ml

**with standard ground, amber glass**

Total height approx. 200 mm, joint size 29/32

41917048 Capacity 1000 ml

41917054 Capacity 2000 ml



Laboratory Equipment

General Laboratory Equipment

Evaporating dishes made of glass

Watch glasses

DIN 12 341, fused rim

- 40010004** Ø approx. 4 cm
- 40010005** Ø approx. 5 cm
- 40010006** Ø approx. 6 cm
- 40010007** Ø approx. 7 cm
- 40010008** Ø approx. 8 cm
- 40010009** Ø approx. 9 cm
- 40010010** Ø approx. 10 cm
- 40010011** Ø approx. 11 cm
- 40010012** Ø approx. 12 cm
- 40010014** Ø approx. 14 cm
- 40010015** Ø approx. 15 cm
- 40010016** Ø approx. 16 cm
- 40010018** Ø approx. 18 cm
- 40010020** Ø approx. 20 cm



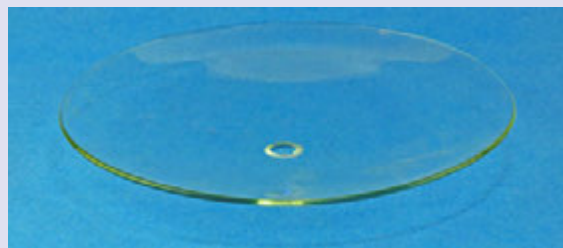
ground in pairs

- 40011005** Ø approx. 5 cm
- 40011006** Ø approx. 6 cm
- 40011007** Ø approx. 7 cm
- 40011008** Ø approx. 8 cm
- 40011009** Ø approx. 9 cm
- 40011010** Ø approx. 10 cm
- 40011011** Ø approx. 11 cm
- 40011012** Ø approx. 12 cm
- 40011014** Ø approx. 14 cm
- 40011015** Ø approx. 15 cm
- 40011016** Ø approx. 16 cm
- 40011018** Ø approx. 18 cm
- 40011020** Ø approx. 20 cm



Evaporating dishes made of glass with hole in centre

40012004	Ø approx. 4 cm
40012005	Ø approx. 5 cm
40012006	Ø approx. 6 cm
40012007	Ø approx. 7 cm
40012008	Ø approx. 8 cm
40012009	Ø approx. 9 cm
40012010	Ø approx. 10 cm
40012011	Ø approx. 11 cm
40012012	Ø approx. 12 cm
40012014	Ø approx. 14 cm
40012015	Ø approx. 15 cm
40012016	Ø approx. 16 cm
40012018	Ø approx. 18 cm
40012020	Ø approx. 20 cm



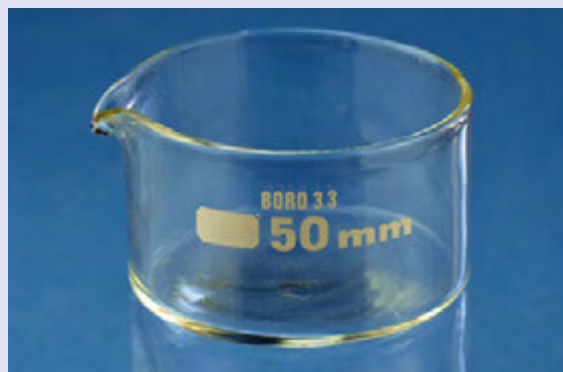
Crystallising dishes

with spout, borosilicate glass 3.3

Cylindrical, flat bottom

	Height	Outside Ø
41969040	approx. 25 mm	approx. 40 mm
41969050	approx. 30 mm	approx. 50 mm
41969060	approx. 35 mm	approx. 60 mm
41969070	approx. 40 mm	approx. 70 mm
41969080	approx. 45 mm	approx. 80 mm
41969095	approx. 55 mm	approx. 95 mm

Crystallising dishes without spout and other sizes are available as well.



Weighing bottles

Tall form

Bottles made of borosilicate glass 3.3, with interchangeable ground joint cover, with frosted label

	Capacity	Outside Ø	Height
44250001	approx. 10 ml	approx. 25 mm	approx. 40 mm
44250002	approx. 20 ml	approx. 30 mm	approx. 50 mm
44250003	approx. 40 ml	approx. 40 mm	approx. 50 mm
44250004	approx. 45 ml	approx. 35 mm	approx. 70 mm
44250005	approx. 70 ml	approx. 40 mm	approx. 80 mm
44250006	approx. 110 ml	approx. 50 mm	approx. 80 mm





Weighing bottles, low form

Bottles made of borosilicate glass 3.3, with interchangeable ground joint cover, with frosted label, height approx. 30 mm

	Capacity	Outside Ø
44251010	approx. 10 ml	approx. 30 mm
44251011	approx. 15 ml	approx. 35 mm
44251012	approx. 20 ml	approx. 40 mm
44251013	approx. 30 ml	approx. 50 mm
44251014	approx. 45 ml	approx. 60 mm
44251016	approx. 80 ml	approx. 80 mm



Glass tanks

Fine ground rim

made of clear glass

	Width	Height	Length
40070001	approx. 10 cm	approx. 15 cm	approx. 15 cm
40070002	approx. 13 cm	approx. 18 cm	approx. 18 cm
40070003	approx. 15 cm	approx. 20 cm	approx. 20 cm
40070004	approx. 18 cm	approx. 22 cm	approx. 25 cm
40070005	approx. 22 cm	approx. 24 cm	approx. 30 cm
40070006	approx. 23 cm	approx. 26 cm	approx. 36 cm
40070011	approx. 22 cm	approx. 15 cm	approx. 30 cm

(Outside dimensions)



Specimen jars (Museum jars)

made of clear glass, with ground cover plate

	Height	Length	Width
42660002	approx. 100 mm	approx. 50 mm	approx. 50 mm
42660003	approx. 150 mm	approx. 80 mm	approx. 60 mm
42660004	approx. 150 mm	approx. 105 mm	approx. 50 mm
42660006	approx. 200 mm	approx. 120 mm	approx. 80 mm
42660007	approx. 200 mm	approx. 130 mm	approx. 130 mm
42660008	approx. 225 mm	approx. 200 mm	approx. 100 mm

Dimensions given are external.

Specimen jars (museum jars) made of clear glass, without cover plate

	Length	Height	Width
42661010	approx. 105 mm	approx. 120 mm	approx. 50 mm

Dimensions given are external.



Narrow neck bottles

Clear glass, with thread and screw cap

Screw caps are heat-resistant up to +110 °C / +230 °F.

	Capacity	Thread
41322012	30 ml	GL 18
41322018	50 ml	GL 18
41322030	100 ml	GL 22
41322054	250 ml	GL 22
41322066	500 ml	GL 25
41322072	1000 ml	GL 28



Amber glass, with thread and screw cap

Screw caps are heat-resistant up to +110 °C / +230 °F.

	Capacity	Thread
41323018	50 ml	GL 18
41323030	100 ml	GL 22
41323048	200 ml	GL 22
41323054	250 ml	GL 22
41323066	500 ml	GL 25
41323072	1000 ml	GL 28





Wide neck bottles

Clear glass, with thread and screw cap

Screw caps are heat-resistant up to +110 °C / +230 °F.

	Capacity	Thread
41324006	25 ml	GL 28
41324012	30 ml	GL 32
41324018	50 ml	GL 32
41324030	100 ml	GL 40
41324036	125 ml	GL 40
41324042	150 ml	GL 45
41324048	200 ml	GL 55
41324054	250 ml	GL 55
41324060	300 ml	GL 55
41324066	500 ml	GL 55
41324072	1000 ml	GL 68



Amber glass, with thread and screw cap

Screw caps are heat-resistant up to +110 °C / +230 °F.

	Capacity	Thread
41325006	25 ml	GL 28
41325012	30 ml	GL 32
41325018	50 ml	GL 32
41325024	75 ml	GL 40
41325030	100 ml	GL 40
41325036	125 ml	GL 40
41325042	150 ml	GL 45
41325048	200 ml	GL 55
41325054	250 ml	GL 55
41325060	300 ml	GL 55
41325066	500 ml	GL 55
41325072	1000 ml	GL 68

Screw caps

for narrow neck and wide neck bottles

made of urea resin molding compound, black, sealing of Lupolen®, heat-resistant up to +110 °C/+230 °F.

41326018	GL 18
41326022	GL 22
41326025	GL 25
41326028	GL 28
41326032	GL 32
41326040	GL 40
41326045	GL 45
41326055	GL 55
41326068	GL 68



Reagent bottles with scale

Clear glass, with blue screw cap and blue pouring ring made of polypropylene

	Capacity	Thread
41330106	50 ml	GL 32
41330112	100 ml	GL 45
41330118	250 ml	GL 45
41330124	500 ml	GL 45
41330130	1000 ml	GL 45
41330136	2000 ml	GL 45
41330142	5000 ml	GL 45
41330148	10000 ml	GL 45



Clear glass, without screw cap and pouring ring

DURAN® borosilicate glass 3.3, with thread ISO, autoclavable

	Capacity	Thread
41330006	50 ml	GL 32
41330012	100 ml	GL 45
41330018	250 ml	GL 45
41330024	500 ml	GL 45
41330030	1000 ml	GL 45
41330036	2000 ml	GL 45





Clear glass, with red screw cap and red pouring ring

Borosilicate glass 3.3, screw cap made of PBT, pouring ring made of ETFE, resistant up to max. +200 °C/+392 °F, thread GL 45

- 41331212** Capacity 100 ml
- 41331218** Capacity 250 ml
- 41331224** Capacity 500 ml
- 41331230** Capacity 1000 ml
- 41331236** Capacity 2000 ml
- 41331242** Capacity 5000 ml



Reagent bottles with scale, amber glass, with blue screw cap and blue pouring ring

Borosilicate glass 3.3, resistant up to max. +140 °C/+284 °F

	Capacity	Thread
41331106	50 ml	GL 32
41331112	100 ml	GL 45
41331118	250 ml	GL 45
41331124	500 ml	GL 45
41331130	1000 ml	GL 45
41331136	2000 ml	GL 45
41331142	5000 ml	GL 45



Square laboratory reagent bottles, clear glass, with blue screw cap and blue pouring ring

Borosilicate glass 3.3, resistant up to +140 °C/+284 °F, thread GL 80

- 41333124** Capacity 500 ml
- 41333130** Capacity 1000 ml
- 41333136** Capacity 2000 ml
- 41333142** Capacity 5000 ml



Square laboratory reagent bottles, amber glass, with blue screw cap and blue pouring ring

Borosilicate glass 3.3, resistant up to +140 °C/+284 °F, thread GL 80

- 41334124** Capacity 500 ml
- 41334130** Capacity 1000 ml
- 41334136** Capacity 2000 ml
- 41334142** Capacity 5000 ml

Pouring rings

made of polypropylene, blue, resistant up to +135 °C/+275 °F

	for	Thread
41335010	bottles from 100 ml	GL 45
41335032	bottles of 50 ml	GL 32



Screw caps

Polypropylene, transparent, with seal, resistant up to +135 °C/+275 °F, also available in red or blue

	for	Thread
41336010	bottles from 100 ml	GL 45
41336032	bottles of 50 ml	GL 32



YOUTILITY Laboratory bottles, DURAN® borosilicate glass 3.3, clear glass

with retrace code, **complete with pouring ring and screw cap made of polypropylene**

The specially shaped gripping zones on both sides of the bottle permit easier and safer handling. The slimmer YOUTILITY bottle shape allows a more optimal use, especially with smaller sized or gloved hands. The screw cap features a secure grip, fast opening and quick closing. with easy-to-read scale and labelling area. All spare parts are autoclavable. (without marking rings, without labels)

	Capacity	Height	Diameter	Thread
41340014	125 ml	approx. 124 mm	approx. 55 mm	GL 45
41340018	250 ml	approx. 158 mm	approx. 66 mm	GL 45
41340024	500 ml	approx. 193 mm	approx. 78 mm	GL 45
41340036	1000 ml	approx. 253 mm	approx. 93 mm	GL 45





YOUTILITY Laboratory bottles, DURAN® borosilicate glass 3.3, amber glass

with retrace code, **complete with pouring ring and screw cap made of polypropylene**

The specially shaped gripping zones on both sides of the bottle permit easier and safer handling.

The slimmer YOUTILITY bottle shape allows a more optimal use, especially with smaller sized or gloved hands.

The screw cap features a secure grip, fast opening and quick closing. with easy-to-read scale and labelling area.

All spare parts are autoclavable.

(without marking rings, without labels)

	Capacity	Height	Diameter	Thread
41341014	125 ml	approx. 124 mm	approx. 55 mm	GL 45
41341018	250 ml	approx. 158 mm	approx. 66 mm	GL 45
41341024	500 ml	approx. 193 mm	approx. 78 mm	GL 45
41341036	1000 ml	approx. 124 mm	approx. 55 mm	GL 45



Screw caps for YOUTILITY laboratory bottles

made of polypropylene, colour cyan

41342010 Thread GL 45



Pouring rings for YOUTILITY laboratory bottles

made of polypropylene, colour cyan

41343010 Thread GL 45



Marking rings for YOUTILITY laboratory bottles

Single rings are not available!

41344010 made of silicone, available in sets of 16 rings (2 rings each of the following colours: red, orange, yellow, green, blue, violet, black, white)

Labels, self-adhesive, for YOUTILITY laboratory bottles

Temperature-resistant at -40 °C +150 °C/-40 °F +302 °F
The labels are made of polyester. Cleanly removable.
with indicator for autoclaving / steam sterilisation according to class 1.

Suitable for use in refrigerators and freezers, autoclaves, incubators and water baths.

in box of 200 labels each

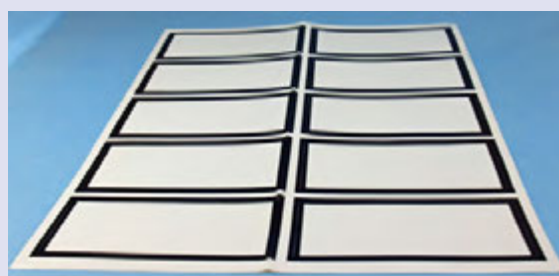
41345010 Rectangular for bottles 36 x 70 mm, circular for screw caps 30 mm Ø



Self-adhesive labels for inscription

White, non-fade plastic foil, resistant to chemicals, with black border

	for bottles	Dimensions
41278001	up to approx. 250 ml	approx. 74 x 37 mm
41278002	from approx. 500 ml	approx. 105 x 52 mm



Protective coating for labels

	for article	for labels
41278091	41278001	approx. 74 x 37 mm
41278092	41278002	approx. 105 x 52 mm



Bottle brushes

for all types of laboratory bottles, with special head brush for cleaning the bottle bottom

	Brush length	Total length	Brush Ø
41279010	approx. 100 mm	approx. 420 mm	approx. 55 mm



Bottles with conical shoulder, narrow neck, clear glass, with stopper made of polyethylene

with standard ground

	Joint size	Capacity
41280006	14.5	50 ml
41280012	14/23	100 ml
41280018	19/26	250 ml
41280024	24/29	500 ml
41280030	29/32	1000 ml
41280036	29/32	2000 ml

On request also available with label and fused inscription.





Narrow neck, clear glass, with glass stopper

with standard ground

	Joint size	Capacity
41281006	14.5	50 ml
41281012	14/23	100 ml
41281018	19/26	250 ml
41281024	24/29	500 ml
41281030	29/32	1000 ml
41281036	29/32	2000 ml

On request also available with label and fused inscription.



Bottles with conical shoulder, narrow neck, amber glass, with stopper made of polyethylene

with standard ground

	Joint size	Capacity
41282006	14.5	50 ml
41282012	14/23	100 ml
41282018	19/26	250 ml
41282024	24/29	500 ml
41282030	29/32	1000 ml
41282036	29/32	2000 ml

On request also available with label and fused inscription.



Narrow neck, amber glass, with glass stopper

with standard ground

	Joint size	Capacity
41283006	14.5	50 ml
41283012	14/23	100 ml
41283019	19/26	250 ml
41283024	24/29	500 ml
41283030	29/32	1000 ml
41283036	29/32	2000 ml

On request also available with label and fused inscription.



Wide neck, clear glass, with stopper made of polyethylene

with standard ground

	Joint size	Capacity
41284006	24/29	50 ml
41284012	29/32	100 ml
41284018	34/35	250 ml
41284024	45/40	500 ml
41284030	60/46	1000 ml

On request also available with label and fused inscription.

Bottles with conical shoulder, wide neck, clear glass, with glass stopper

with standard ground

	Joint size	Capacity
41285006	24/20	50 ml
41285012	29/22	100 ml
41285018	34/40	250 ml
41285024	45/27	500 ml
41285030	60/46	1000 ml

On request also available with label and fused inscription.



Wide neck, amber glass, with stopper made of polyethylene

with standard ground

	Joint size	Capacity
41286006	24/29	50 ml
41286012	29/32	100 ml
41286018	34/35	250 ml
41286024	45/40	500 ml
41286030	60/46	1000 ml

On request also available with label and fused inscription.



Wide neck, amber glass, with glass stopper

with standard ground

	Joint size	Capacity
41287006	24/20	50 ml
41287012	29/22	100 ml
41287018	34/40	250 ml
41287024	45/27	500 ml
41287030	60/46	1000 ml

On request also available with label and fused inscription.



Bottles with conical shoulder, narrow neck, clear glass

with stopper made of polyethylene (HDPE) and frosted label for inscriptions

41321010 Capacity 50 ml, joint size 14/23





Narrow neck bottles

Clear glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
41301006	50 ml	approx. 41.5 mm	approx. 77 mm
41301012	100 ml	approx. 51.5 mm	approx. 103 mm
41301018	250 ml	approx. 69 mm	approx. 131 mm
41301024	500 ml	approx. 85 mm	approx. 163 mm
41301030	1000 ml	approx. 106.5 mm	approx. 199 mm



Amber glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
41303006	50 ml	approx. 41.5 mm	approx. 77 mm
41303012	100 ml	approx. 51.5 mm	approx. 103 mm
41303018	250 ml	approx. 69 mm	approx. 131 mm
41303024	500 ml	approx. 85 mm	approx. 163 mm
41303030	1000 ml	approx. 106.5 mm	approx. 199 mm
41303036	2000 ml	approx. 132 mm	approx. 245 mm



Wide neck bottles

Clear glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
41311006	50 ml	approx. 41.5 mm	approx. 76 mm
41311012	100 ml	approx. 51.5 mm	approx. 95 mm
41311018	250 ml	approx. 69 mm	approx. 128 mm
41311024	500 ml	approx. 85 mm	approx. 162 mm
41311030	1000 ml	approx. 106.5 mm	approx. 187 mm



Amber glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
41313006	50 ml	approx. 41.5 mm	approx. 76 mm
41313012	100 ml	approx. 51.5 mm	approx. 95 mm
41313018	250 ml	approx. 69 mm	approx. 128 mm
41313024	500 ml	approx. 85 mm	approx. 162 mm
41313030	1000 ml	approx. 106.5 mm	approx. 187 mm
41313036	2000 ml	approx. 132 mm	approx. 238 mm

Dropping bottles made of amber glass

with thread DIN 18, without cap

- 41314005** Capacity 5 ml
- 41314010** Capacity 10 ml
- 41314015** Capacity 15 ml
- 41314020** Capacity 20 ml
- 41314030** Capacity 30 ml
- 41314050** Capacity 50 ml
- 41314060** Capacity 100 ml



Pipette kit for no. 41314...

consisting of: screw cap, suction bulb (blue or red) and glass pipette suitable, DIN 18

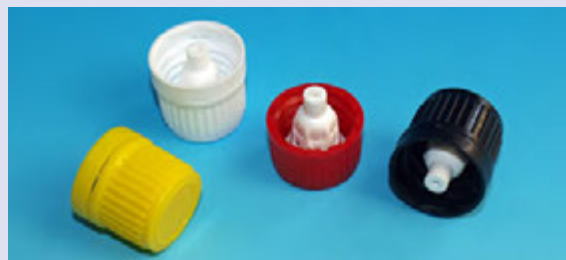
- 41315005** for 5 ml blue - 41315006 red
- 41315010** for 10 ml blue - 41315011 red
- 41315020** for 20 ml blue - 41315021 red
- 41315030** for 30 ml blue - 41315031 red
- 41315050** for 10 ml blue - 41315051 red
- 41315060** for 100 ml blue - 41315061 red



Dropping screw caps for no. 41314...

- 413161..** UNI 1, fast dropping, 4 holes, white or red
- 413162..** UNI 2, slow dropping, 2 holes, white or red
- 413163..** Tamper-evident, white, red, yellow, black
- 413164..** with child safety lock, white

Last two positions of article number stand for colour: 01=red, 02=white, 03=yellow, 04=black
Please indicate in your order!



Dropping bottles TK, clear glass

with flat glass stopper

	Capacity	Ø	Height
41318006	50 ml	approx. 44 mm	approx. 92 mm
41318012	100 ml	approx. 55 mm	approx. 106 mm





Amber glass

with flat glass stopper

	Capacity	Ø	Height
41319006	50 ml	approx. 44 mm	approx. 92 mm
41319012	100 ml	approx. 55 mm	approx. 106 mm



Bottles made of polyethylene, with screw cap

Narrow neck

LDPE, flexible

	Capacity	Thread
49100006	30 ml	GL 14
49100012	50 ml	GL 18
49100018	100 ml	GL 18
49100024	250 ml	GL 25
49100030	500 ml	GL 25
49100036	1000 ml	GL 28
49100042	2000 ml	GL 28
49100048	5000 ml	GL 40

49100048 with handle



Wide neck

LDPE, flexible

	Capacity	Thread
49101012	50 ml	GL 32
49101018	100 ml	GL 32
49101024	250 ml	GL 40
49101030	500 ml	GL 50
49101036	1000 ml	GL 65
49101042	2000 ml	GL 65

Washing bottles made of polyethylene

LDPE, flexible, with spray tube

	Capacity	Thread
49102018	100 ml	GL 18
49102024	250 ml	GL 25
49102030	500 ml	GL 25
49102036	1000 ml	GL 28



Bottles made of polypropylene, with conical shoulder

Narrow neck

with interchangeable stopper made of polyethylene

	Capacity	Joint size
49108018	100 ml	14/23
49108024	250 ml	19/26
49108030	500 ml	24/29
49108036	1000 ml	29/32



Dropping bottles made of polyethylene, with dropping tip

LDPE, with attached cap

	Capacity	Thread
49103004	10 ml	GL 14
49103008	20 ml	GL 14
49103012	30 ml	GL 14
49103016	50 ml	GL 18
49103020	100 ml	GL 18
49103024	250 ml	GL 25
49103028	500 ml	GL 25



Bottles made of polyethylene, high shoulder

LDPE, narrow neck, with screw cap

	Capacity	Thread
49105012	50 ml	GL 18
49105018	100 ml	GL 18
49105024	250 ml	GL 25
49105030	500 ml	GL 25
49105036	1000 ml	GL 28





Square bottles made of polyethylene, with screw cap, narrow neck HDPE

	Capacity	Thread
49116012	50 ml	GL 18
49116018	100 ml	GL 25
49116024	250 ml	GL 25
49116030	500 ml	GL 25
49116036	1000 ml	GL 25



Square bottles made of polyethylene, with screw cap, wide neck HDPE

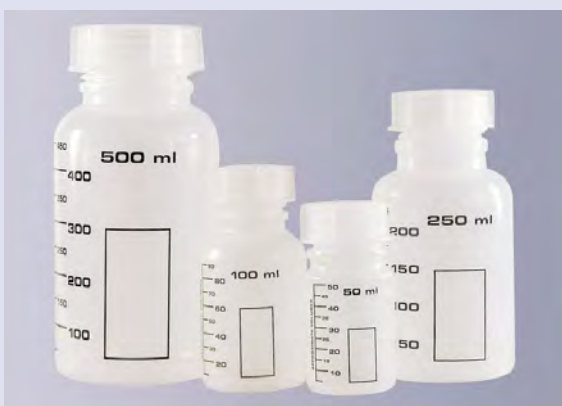
	Capacity	Thread
49116924	250 ml	GL 50
49116930	500 ml	GL 65
49116936	1000 ml	GL 65



Bottles made of LDPE, narrow neck, brown

with screw cap, contents protected against UV radiation, for light-sensitive liquids

	Capacity	Thread
49112018	100 ml	GL 18
49112024	250 ml	GL 25
49112030	500 ml	GL 25
49112036	1000 ml	GL 28



Bottles made of polypropylene, wide neck

with screw cap and scale, autoclavable up to max. +121 °C / +249.8 °F

	Capacity	Thread
49115012	50 ml	GL 32
49115018	100 ml	GL 32
49115024	250 ml	GL 40
49115030	500 ml	GL 50
49115036	1000 ml	GL 65

Spray bottles made of polyethylene

LDPE, with adjustable jet made of polypropylene

49119010 Capacity approx. 1000 ml



Bottles for analysis of drinking water according to DIN EN ISO 5667-3, with sodium thiosulphate

Sterile, disposable, made of polypropylene, wide neck, quite transparent, square, with scale, individually labelled with lot number and note "sterile R" (=sterilised by irradiation) According to the revision of the drinking water regulation effective since November 2011 (modified on 14.12.2012). for sampling of possibly chlorinated water (= pre-dispensed 20 mg/1 l) Minimum order quantity 1 packing unit

	Capacity	Packing unit	Dimensions
49125020	125 ml	350 pieces	approx. 92 x 50 mm Ø
49125024	250 ml	216 pieces	approx. 115 x 50 mm Ø
49125030	500 ml	120 pieces	approx. 145 x 50 mm Ø
49125036	1000 ml	72 pieces	approx. 175 x 50 mm Ø



Bottles for analysis of drinking water according to DIN EN ISO 5667-3, without sodium thiosulphate

Sterile, disposable, made of polypropylene, wide neck, quite transparent, square, with scale, individually labelled with lot number and note "sterile R" (=sterilised by irradiation) According to the revision of the drinking water regulation effective since November 2011 (modified on 14.12.2012). for sampling of open water, lakes, rivers etc. Minimum order quantity 1 packing unit

	Capacity	Packing unit	Dimensions
49126020	125 ml	350 pieces	approx. 92 x 50 mm Ø
49126024	250 ml	216 pieces	approx. 115 x 50 mm Ø
49126030	500 ml	120 pieces	approx. 145 x 50 mm Ø
49126036	1000 ml	72 pieces	approx. 175 x 50 mm Ø

Square bottles and collecting containers



Urine collecting container, polypropylene

with handle, embossed scale, with white cover made of polycarbonate, sterilisable

	Division	Capacity	Dimensions
44116010	20 ml	2000 ml	approx. 220 x 150 mm Ø



Urine collecting containers made of SAN, CE

Transparent, approximate scale on two sides, with cover

	Capacity	Temperature for use
49117020	2000 ml	max. +70 °C/+158 °F



Urine collecting bottles made of polyethylene

HDPE, with screw cap and approximate scale

	Scale up to	Capacity
49117010	2000 ml	2500 ml



Urine collecting containers, polyethylene, amber

Disposable, made of HDPE, with screw cap and embossed scale, not autoclavable

	Capacity	Scale up to
49118010	2000 ml	2000 ml

Aspirator bottles

Aspirator bottles made of polyethylene, narrow neck

with stopcock, handle and screw cap

	Capacity	Ø	Height
49130005	5 litres	approx. 165 mm	approx. 335 mm
49130010	10 litres	approx. 210 mm	approx. 420 mm
49130025	25 litres	approx. 280 mm	approx. 525 mm
49130050	50 litres	approx. 365 mm	approx. 605 mm

49130025 and **49130050** with two handles



Spare stopcock

made of polypropylene

	Opening	Connection
49131010	10 mm	3/4"



Boiling flasks, beakers and accessories

Kjeldahl flasks, DURAN® borosilicate glass 3.3

DIN 12360, with rim, without standard ground

41870018 Capacity 250 ml

41870024 Capacity 500 ml





Beakers, tall form, DURAN® borosilicate glass 3.3

DIN 12331, with scale

	Capacity	Diameter	Height
41929024	50 ml	approx. 38 mm	approx. 70 mm
41929030	100 ml	approx. 48 mm	approx. 80 mm
41929036	150 ml	approx. 54 mm	approx. 95 mm
41929042	250 ml	approx. 60 mm	approx. 120 mm
41929048	400 ml	approx. 70 mm	approx. 130 mm
41929054	600 ml	approx. 80 mm	approx. 150 mm
41929060	800 ml	approx. 90 mm	approx. 175 mm
41929066	1000 ml	approx. 95 mm	approx. 180 mm
41929072	2000 ml	approx. 120 mm	approx. 240 mm



Beakers, borosilicate glass 3.3, tall form

DIN 12331, with scale

	Capacity	Diameter	Height
41929118	25 ml	approx. 28 mm	approx. 60 mm
41929124	50 ml	approx. 38 mm	approx. 70 mm
41929130	100 ml	approx. 48 mm	approx. 80 mm
41929136	150 ml	approx. 54 mm	approx. 95 mm
41929142	250 ml	approx. 60 mm	approx. 120 mm
41929148	400 ml	approx. 70 mm	approx. 130 mm
41929154	600 ml	approx. 80 mm	approx. 150 mm
41929160	800 ml	approx. 90 mm	approx. 175 mm
41929166	1000 ml	approx. 95 mm	approx. 180 mm
41929172	2000 ml	approx. 120 mm	approx. 240 mm



Beakers, DURAN® borosilicate glass 3.3, low form

DIN 12331, with scale

	Capacity	Diameter	Height
41930004	25 ml	approx. 34 mm	approx. 50 mm
41930008	50 ml	approx. 42 mm	approx. 60 mm
41930012	100 ml	approx. 50 mm	approx. 70 mm
41930016	150 ml	approx. 60 mm	approx. 80 mm
41930020	250 ml	approx. 70 mm	approx. 95 mm
41930024	400 ml	approx. 80 mm	approx. 110 mm
41930028	600 ml	approx. 90 mm	approx. 125 mm
41930032	800 ml	approx. 100 mm	approx. 135 mm
41930036	1000 ml	approx. 105 mm	approx. 145 mm
41930040	2000 ml	approx. 132 mm	approx. 185 mm
41930044	3000 ml	approx. 152 mm	approx. 210 mm
41930048	5000 ml	approx. 170 mm	approx. 270 mm

Beakers, borosilicate glass 3.3, low form

DIN 12331, with scale

	Capacity	Diameter	Height
41930104	25 ml	approx. 34 mm	approx. 50 mm
41930108	50 ml	approx. 42 mm	approx. 60 mm
41930112	100 ml	approx. 50 mm	approx. 70 mm
41930116	150 ml	approx. 60 mm	approx. 80 mm
41930120	250 ml	approx. 70 mm	approx. 95 mm
41930124	400 ml	approx. 80 mm	approx. 110 mm
41930128	600 ml	approx. 90 mm	approx. 125 mm
41930132	800 ml	approx. 100 mm	approx. 135 mm
41930136	1000 ml	approx. 105 mm	approx. 145 mm
41930140	2000 ml	approx. 132 mm	approx. 185 mm
41930144	3000 ml	approx. 152 mm	approx. 210 mm
41930148	5000 ml	approx. 170 mm	approx. 270 mm



Griffin beakers made of polymethylpentene (PMP)

Antistatic, transparent, with rim and spout, printed red scale

Autoclavable up to +121 °C/+249.8 °F (2 bar)

Max. temperature +150 °C/+302 °F

	Capacity	Division	Diameter	Height
41934006	10 ml	2 ml	approx. 25 mm	approx. 35 mm
41934012	25 ml	1 ml	approx. 31 mm	approx. 47 mm
41934018	50 ml	5 ml	approx. 40 mm	approx. 60 mm
41934024	100 ml	5 ml	approx. 49 mm	approx. 70 mm
41934030	150 ml	5 ml	approx. 56 mm	approx. 80 mm
41934036	250 ml	5 ml	approx. 68 mm	approx. 94 mm
41934042	400 ml	10 ml	approx. 77 mm	approx. 109 mm
41934048	600 ml	25 ml	approx. 91 mm	approx. 125 mm
41934060	1000 ml	50 ml	approx. 102 mm	approx. 149 mm
41934066	2000 ml	100 ml	approx. 133 mm	approx. 183 mm



Griffin beakers made of polypropylene

Low form, transparent, ISO 7056 and DIN 12331 (glass), antistatic, with rim and spout, printed blue scale

Max. temperature +135 °C/+275 °F

Suitable for steam sterilisation at +121 °C/+249.8 °F

	Capacity	Division	Diameter	Height
41935006	10 ml	2 ml	approx. 25 mm	approx. 35 mm
41935012	25 ml	1 ml	approx. 31 mm	approx. 47 mm
41935018	50 ml	5 ml	approx. 40 mm	approx. 60 mm
41935024	100 ml	5 ml	approx. 49 mm	approx. 70 mm
41935030	150 ml	5 ml	approx. 56 mm	approx. 80 mm
41935036	250 ml	5 ml	approx. 68 mm	approx. 94 mm
41935042	400 ml	10 ml	approx. 77 mm	approx. 109 mm
41935048	600 ml	25 ml	approx. 91 mm	approx. 125 mm
41935060	1000 ml	50 ml	approx. 102 mm	approx. 149 mm
41935066	2000 ml	100 ml	approx. 133 mm	approx. 183 mm
41935072	3000 ml	200 ml	approx. 174 mm	approx. 217 mm
41935078	5000 ml	500 ml	approx. 185 mm	approx. 248 mm





Brushes with wooden handle

for beakers made of glass or plastic, measuring jugs etc.

	Brush length	Total length	Brush Ø
41936010	approx. 140 mm	approx. 430 mm	approx. 85/60 mm



Erlenmeyer flasks, DURAN® borosilicate glass 3.3, narrow neck

DIN ISO 1773, with scale

	Capacity	Neck diameter	Diameter	Height
41940012	25 ml	approx. 22 mm	approx. 42 mm	approx. 75 mm
41940018	50 ml	approx. 22 mm	approx. 51 mm	approx. 90 mm
41940024	100 ml	approx. 22 mm	approx. 64 mm	approx. 105 mm
41940030	200 ml	approx. 34 mm	approx. 79 mm	approx. 131 mm
41940036	250 ml	approx. 34 mm	approx. 85 mm	approx. 145 mm
41940042	300 ml	approx. 34 mm	approx. 87 mm	approx. 156 mm
41940048	500 ml	approx. 34 mm	approx. 105 mm	approx. 180 mm
41940054	1000 ml	approx. 42 mm	approx. 131 mm	approx. 220 mm
41940060	2000 ml	approx. 50 mm	approx. 166 mm	approx. 280 mm
41940066	3000 ml	approx. 51 mm	approx. 187 mm	approx. 310 mm
41940072	5000 ml	approx. 51 mm	approx. 220 mm	approx. 365 mm



Erlenmeyer flasks, borosilicate glass 3.3, narrow neck

DIN ISO 1773, with scale

	Capacity	Neck diameter	Diameter	Height
41940112	25 ml	approx. 22 mm	approx. 42 mm	approx. 75 mm
41940118	50 ml	approx. 22 mm	approx. 51 mm	approx. 90 mm
41940124	100 ml	approx. 22 mm	approx. 64 mm	approx. 105 mm
41940130	200 ml	approx. 34 mm	approx. 79 mm	approx. 131 mm
41940136	250 ml	approx. 34 mm	approx. 85 mm	approx. 145 mm
41940142	300 ml	approx. 34 mm	approx. 87 mm	approx. 156 mm
41940148	500 ml	approx. 34 mm	approx. 105 mm	approx. 180 mm
41940154	1000 ml	approx. 42 mm	approx. 131 mm	approx. 220 mm
41940166	3000 ml	approx. 51 mm	approx. 187 mm	approx. 310 mm
41940172	5000 ml	approx. 51 mm	approx. 220 mm	approx. 365 mm

Erlenmeyer flasks, DURAN® borosilicate glass 3.3, wide neck

DIN 12385, with scale

	Capacity	Neck diameter	Diameter	Height
41941012	25 ml	approx. 31 mm	approx. 43 mm	approx. 70 mm
41941018	50 ml	approx. 34 mm	approx. 51 mm	approx. 85 mm
41941024	100 ml	approx. 34 mm	approx. 64 mm	approx. 105 mm
41941030	200 ml	approx. 50 mm	approx. 79 mm	approx. 131 mm
41941036	250 ml	approx. 50 mm	approx. 85 mm	approx. 140 mm
41941042	300 ml	approx. 50 mm	approx. 87 mm	approx. 156 mm
41941048	500 ml	approx. 50 mm	approx. 105 mm	approx. 175 mm
41941054	1000 ml	approx. 50 mm	approx. 131 mm	approx. 220 mm
41941060	2000 ml	approx. 72 mm	approx. 153 mm	approx. 276 mm



Erlenmeyer flasks, borosilicate glass 3.3, wide neck

DIN 12385, with scale

	Capacity	Neck diameter	Diameter	Height
41941112	25 ml	approx. 31 mm	approx. 43 mm	approx. 70 mm
41941118	50 ml	approx. 34 mm	approx. 51 mm	approx. 85 mm
41941124	100 ml	approx. 34 mm	approx. 64 mm	approx. 105 mm
41941130	200 ml	approx. 50 mm	approx. 79 mm	approx. 131 mm
41941136	250 ml	approx. 50 mm	approx. 85 mm	approx. 140 mm
41941142	300 ml	approx. 50 mm	approx. 87 mm	approx. 156 mm
41941148	500 ml	approx. 50 mm	approx. 105 mm	approx. 175 mm
41941154	1000 ml	approx. 50 mm	approx. 131 mm	approx. 220 mm
41941160	2000 ml	approx. 72 mm	approx. 153 mm	approx. 276 mm
41941166	3000 ml	approx. 78 mm	approx. 190 mm	approx. 320 mm
41941172	5000 ml	approx. 78 mm	approx. 220 mm	approx. 373 mm



Erlenmeyer flasks, borosilicate glass 3.3, narrow neck, with blue screw cap

with scale, resistant up to max. +140 °C/+284 °F

	Capacity	Height	Diameter	Thread
41943124	100 ml	approx. 100 mm	approx. 64 mm	GL 25
41943136	250 ml	approx. 140 mm	approx. 85 mm	GL 32
41943148	500 ml	approx. 175 mm	approx. 105 mm	GL 32
41943154	1000 ml	approx. 215 mm	approx. 131 mm	GL 32





Erlenmeyer flasks, baffled bottom, DURAN® borosilicate glass 3.3, for suspension cultures, with thread

When cultivating microorganisms in Erlenmeyer flasks on an orbital shaker, the oxygen intake is frequently the limiting factor for cell growth. The Erlenmeyer flask with four bottom baffles disrupts the laminar flow to create a turbulent flow. The gas exchange surface of the liquid is increased, thereby increasing the oxygen intake.

The thread GL 45 allows the use of the following closures:

- screw caps with membrane GL 45 for autoclaving
- plugs of 30 mm, e.g. made of cotton, silicone foam or pulp for cultivation
- screw caps GL 45 for storage of media and reagents

41945036 Capacity 250 ml

41945048 Capacity 500 ml

41945054 Capacity 1000 ml



Erlenmeyer flasks, baffled bottom, DURAN® borosilicate glass 3.3, for suspension cultures, with membrane screw cap and pouring ring

Thread GL 45

41946036 Capacity 250 ml

41946048 Capacity 500 ml

41946054 Capacity 1000 ml



Screw caps with membrane, made of polypropylene, for baffled Erlenmeyer flasks

Blue, with welded-in PTFE membrane for pressure equalisation, suitable for flasks 250, 500 and 1000 ml

41947010 Thread GL 45

Lead rings

Closed (O-shape), vinyl-coated, lead core

- 42111001** for flasks 125-500 ml
- 42111002** for flasks 250-1000 ml
- 42111003** for flasks 500-2000 ml
- 42111004** for flasks 1000-4000 ml



Test tubes, centrifuge tubes and accessories

Test tubes with side tube

AR-Glas® (soda glass), with moulded socket, without ground, wall thickness approx. 1.2 mm

- 42763010** Dimensions approx. 180 x 20 mm Ø



Test tubes, graduated

Standard type, AR-Glas® (soda glass), round bottom, with spout, fused white graduation "ASSISTENT-PERMANENT", short line graduation, precisely calibrated
Packing: 10 pieces in a plastic bag

	Graduation	Dimensions
42765005	5 ml : 0.1 ml	approx. 110 x 12 mm Ø
42765010	10 ml : 0.1 ml	approx. 160 x 13 mm Ø
42765020	20 ml : 0.1 ml	approx. 200 x 15 mm Ø
42765025	25 ml : 0.5 ml	approx. 180 x 18 mm Ø





Test tubes, graduated, with stopper

AR-Glas® (soda glass), with standard ground 12/21 and stopper made of polyethylene (HDPE), packing: 5 pieces in a plastic bag

	Capacity	Wall thickness	Dimensions
42766010	10 ml : 0.1 ml	approx. 1.0 mm	approx. 180 x 13 mm Ø
42766020	20 ml : 0.1 ml	approx. 0.9 mm	approx. 220 x 15 mm Ø



Test tubes with stopper

Round bottom, with standard ground 12/21 and stopper made of polyethylene (HDPE), dimensions approx. 160 x 16 mm Ø, wall thickness approx. 1.2 mm

- 42767010** AR-Glas® (soda glass)
- 42767030** DURAN® borosilicate glass 3.3



Test tubes with stopper and ring marks

AR-Glas® (soda glass), with standard ground 12/21 and stopper made of polyethylene (HDPE)

	Ring marks	Wall thickness	Dimensions
42768002	at 5 and 10 ml	approx. 1.2 mm	approx. 160 x 16 mm Ø



Test tubes / Centrifuge tubes, disposable

AR-Glas® (soda glass), round bottom, rimless, wall thickness approx. 0.5 mm

Tests (with water) have proven the usability in centrifuges at 4000 rpm

	Packing/box	Dimensions
42769045	200 pieces	approx. 100 x 16 mm Ø
42769051	100 pieces	approx. 160 x 16 mm Ø

Test tubes "ELKA"

AR-Glas® (soda glass), round bottom, with rim

	Packing/box	Wall thickness	Outside Ø	Length
42770021	100 pieces	approx. 0.5 mm	approx. 10 mm	approx. 100 mm
42770027	100 pieces	approx. 0.5 mm	approx. 12 mm	approx. 100 mm
42770033	100 pieces	approx. 0.6 mm	approx. 14 mm	approx. 130 mm
42770045	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 100 mm
42770048	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 120 mm
42770051	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 160 mm
42770057	100 pieces	approx. 0.5 mm	approx. 18 mm	approx. 160 mm
42770060	100 pieces	approx. 0.5 mm	approx. 18 mm	approx. 180 mm
42770063	100 pieces	approx. 0.5 mm	approx. 20 mm	approx. 180 mm
42770069	50 pieces	approx. 0.8 mm	approx. 24 mm	approx. 160 mm
42770072	50 pieces	approx. 0.8 mm	approx. 24 mm	approx. 200 mm
42770078	50 pieces	approx. 0.8 mm	approx. 30 mm	approx. 200 mm
42770251	200 pieces	approx. 0.5 mm	approx. 16 mm	approx. 160 mm



Test tubes, FIOLAX® (borosilicate glass)

Round bottom, with rim

	Packing/box	Wall thickness	Length	Outside Ø
42771015	100 pieces	approx. 0.45 mm	approx. 70 mm	approx. 8 mm
42771021	100 pieces	approx. 0.45 mm	approx. 100 mm	approx. 10 mm
42771027	100 pieces	approx. 0.45 mm	approx. 100 mm	approx. 12 mm
42771033	100 pieces	approx. 0.45 mm	approx. 130 mm	approx. 14 mm
42771045	100 pieces	approx. 0.6 mm	approx. 100 mm	approx. 16 mm
42771051	100 pieces	approx. 0.6 mm	approx. 160 mm	approx. 16 mm
42771060	100 pieces	approx. 0.55 mm	approx. 180 mm	approx. 18 mm
42771063	100 pieces	approx. 0.55 mm	approx. 180 mm	approx. 20 mm
42771075	100 pieces	approx. 0.55 mm	approx. 120 mm	approx. 20 mm
42771251	200 pieces	approx. 0.6 mm	approx. 160 mm	approx. 16 mm





Test tubes, heavy wall

AR-Glas® (soda glass), round bottom, rimless

	Packing/box	Wall thickness	Length	Outside Ø
42775003	500 pieces	approx. 0.65 mm	approx. 50 mm	approx. 6-6.5 mm
42775006	2000 pieces	approx. 0.7 mm	approx. 27 mm	approx. 7 mm
42775009	100 pieces	approx. 0.65 mm	approx. 35 mm	approx. 6 mm
42775012	100 pieces	approx. 0.7 mm	approx. 40 mm	approx. 8 mm
42775015	200 pieces	approx. 0.9 mm	approx. 80 mm	approx. 10-11 mm
42775018	100 pieces	approx. 0.9 mm	approx. 70 mm	approx. 10-11 mm
42775021	100 pieces	approx. 0.9 mm	approx. 100 mm	approx. 10 mm
42775024	200 pieces	approx. 0.7 mm	approx. 75 mm	approx. 12 mm
42775027	100 pieces	approx. 0.7 mm	approx. 100 mm	approx. 12 mm
42775030	100 pieces	approx. 0.9 mm	approx. 100 mm	approx. 14 mm
42775033	100 pieces	approx. 0.9 mm	approx. 130 mm	approx. 14 mm
42775036	100 pieces	approx. 0.9 mm	approx. 75 mm	approx. 15 mm
42775039	100 pieces	approx. 0.9 mm	approx. 85 mm	approx. 15 mm
42775042	100 pieces	approx. 0.9 mm	approx. 135 mm	approx. 15 mm
42775045	100 pieces	approx. 0.8 mm	approx. 100 mm	approx. 16 mm
42775051	100 pieces	approx. 0.8 mm	approx. 160 mm	approx. 16 mm
42775054	100 pieces	approx. 1 mm	approx. 100 mm	approx. 18 mm
42775060	100 pieces	approx. 1 mm	approx. 180 mm	approx. 18 mm
42775251	200 pieces	approx. 0.8 mm	approx. 160 mm	approx. 16 mm

42775009 Durham tubes

42775024 Kahn tubes, Urastrat tubes, tubes for Combs test

42775027 Centrifuge tubes for examination of mastic and blood typing



Kapsenberg caps

Test tube caps with handle, anodised aluminium, silver-coloured

42776051 for tubes of 16 mm Ø

42776057 for tubes of 18 mm Ø



Labocap caps

with handle, anodised aluminium, heat-resistant (max. +140 °C/ +284 °F), stainless

427771.. for tubes of 15-16 mm Ø

427772.. for tubes of 17-18 mm Ø

Last two positions of article number stand for colour: 04=blue, 08=yellow, 12=green, 16=red, 20=silver
Please indicate in your order!

Flat bottom tubes

Soda glass, rimless, heavy wall, wall thickness approx. 1 mm, packing: 100 pieces/box

42779065 Dimensions approx. 65 x 15 mm Ø

42779070 Dimensions approx. 70 x 22 mm Ø



Test tubes, heavy wall, with rim

AR-Glas® (soda glass), round bottom, wall thickness approx. 1 mm, packing: 100 pieces/box

42780010 Dimensions approx. 160 x 16 mm Ø



Test tubes with screw cap

Soda glass, round bottom, heavy wall, with thread GL 18, sterilisable up to +121 °C/+249.8 °F, wall approx. 1 mm packing: 100 pieces/box

42782045 Dimensions approx. 100 x 16 mm Ø

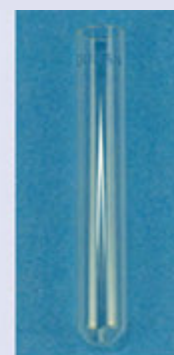
42782051 Dimensions approx. 160 x 16 mm Ø



Test tubes, DURAN® borosilicate glass 3.3, rimless

Round bottom, heavy wall

	Wall thickness	Dimensions
42787021	approx. 1.0 mm	approx. 100 x 10 mm Ø
42787024	approx. 1.0 mm	approx. 75 x 12 mm Ø
42787027	approx. 1.0 mm	approx. 100 x 12 mm Ø
42787033	approx. 1.0 mm	approx. 130 x 14 mm Ø
42787048	approx. 1.2 mm	approx. 150 x 16 mm Ø
42787051	approx. 1.2 mm	approx. 160 x 16 mm Ø
42787054	approx. 1.2 mm	approx. 150 x 19 mm Ø
42787060	approx. 1.2 mm	approx. 180 x 18 mm Ø

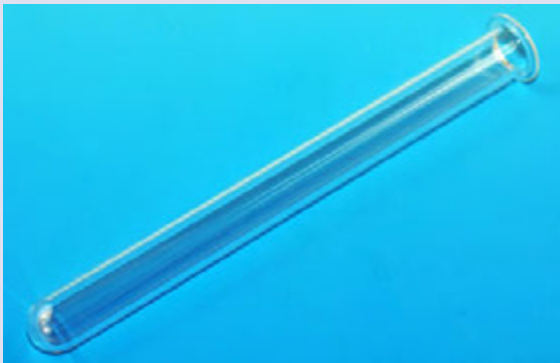




Test tubes, DURAN® borosilicate glass 3.3, with rim

Round bottom, heavy wall

	Wall thickness	Dimensions
42788021	approx. 1.0 mm	approx. 100 x 10 mm Ø
42788024	approx. 1.0 mm	approx. 75 x 12 mm Ø
42788027	approx. 1.0 mm	approx. 100 x 12 mm Ø
42788033	approx. 1.2 mm	approx. 130 x 14 mm Ø
42788048	approx. 1.2 mm	approx. 150 x 16 mm Ø
42788051	approx. 1.2 mm	approx. 160 x 16 mm Ø
42788054	approx. 1.2 mm	approx. 150 x 19 mm Ø
42788060	approx. 1.2 mm	approx. 180 x 18 mm Ø
42788063	approx. 1.2 mm	approx. 180 x 20 mm Ø
42788066	approx. 1.2 mm	approx. 200 x 24 mm Ø
42788078	approx. 1.4 mm	approx. 200 x 30 mm Ø
42788081	approx. 1.4 mm	approx. 200 x 38 mm Ø



Test tubes according to Uhlenhut

AR-Glas ® (soda glass), round bottom, with broad rim, for bacteriological and serological purposes, wall thickness approx. 1 mm, packing: 100 pieces/box

42793050 Dimensions approx. 100 x 10 mm Ø



Test tube brushes with cotton end

	Galvanised wire	for tubes	Total length	Bristle with cotton
42760010	1.6 mm	16-20 mm Ø	approx. 300 mm	approx. 80 x 20 mm Ø
42760020	1.0 mm	10-12 mm Ø	approx. 160 mm	approx. 50 x 10 mm Ø
42760030	1.6 mm	approx. 25 mm Ø	approx. 330 mm	approx. 110 x 26 mm Ø



Glass vials, rolled rim, with plastic snap-cap

	Packing/box	Capacity	Dimensions
42783004	690 pieces	approx. 2 ml	approx. 36 x 11.5 mm Ø
42783008	154 pieces	approx. 5 ml	approx. 24 x 24 mm Ø
42783012	154 pieces	approx. 8 ml	approx. 34 x 24 mm Ø
42783016	154 pieces	approx. 10 ml	approx. 41 x 24 mm Ø
42783020	130 pieces	approx. 15 ml	approx. 48 x 26 mm Ø
42783024	130 pieces	approx. 20 ml	approx. 60 x 26 mm Ø
42783028	108 pieces	approx. 30 ml	approx. 72 x 28 mm Ø
42783032	84 pieces	approx. 60 ml	approx. 106 x 32 mm Ø

Minimum order quantity: 1 box

Test tubes, flat bottom, for globules

Clear glass, rimless, with transparent lamellar plug,
packing: 300 pieces/box

42784010 Dimensions approx. 52.5 x 8 mm Ø

Minimum order quantity: 1 box



Glass vials, rolled rim, with plastic snap-cap

	Packing/box	Capacity	Dimensions
42785004	200 pieces	approx. 3 ml	approx. 30 x 19 mm Ø
42785008	200 pieces	approx. 5 ml	approx. 40 x 19 mm Ø
42785012	200 pieces	approx. 10 ml	approx. 45 x 22 mm Ø
42785016	200 pieces	approx. 25 ml	approx. 50 x 30 mm Ø
42785020	200 pieces	approx. 30 ml	approx. 75 x 28 mm Ø
42785024	200 pieces	approx. 40 ml	approx. 80 x 30 mm Ø
42785028	200 pieces	approx. 50 ml	approx. 100 x 30 mm Ø
42785032	100 pieces	approx. 100 ml	approx. 145 x 34 mm Ø

Minimum order quantity: 1 box



Wooden test tube holders

Packing: 10 pieces

with spring

42810010 for tubes up to approx. 20 mm Ø



Packing: 10 pieces

with spring

42811010 for tubes up to approx. 30 mm Ø



Brushes for conical centrifuge tubes

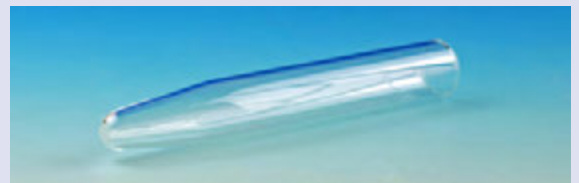
	Brush Ø	Total length	Brush
40937010	14 mm top - 30 mm below	approx. 270 mm	approx. 80 mm long



Centrifuge tubes, conical, rimless, ungraduated

Packing: 100 pieces/box

	Capacity	Dimensions	Material
40938007	15 ml	approx. 112 x 17 mm	DURAN® borosilicate glass 3.3
40938010	15 ml	approx. 112 x 17 mm	AR-Glas® (soda glass)
40938014	14.5 ml	approx. 100 x 17 mm	AR-Glas® (soda glass)
40938021	15.5 ml	approx. 105 x 17 mm	AR-Glas® (soda glass)





Centrifuge tubes, conical, rimless, graduated

Fused white graduation "ASSISTENT-PERMANENT", with mark at 15 ml.

Capacity 10-15 ml, dimensions approx. 112 x 17 mm

Available with blue or amber graduation on request.

Packing unit 10 pieces, 100 pieces/box.

	Graduation	Material
40939001	10 ml: 0.1	AR-Glas® (soda glass)
40939002	15 ml: 0.1	AR-Glas® (soda glass)
40939301	10 ml: 0.1	DURAN® borosilicate glass 3.3
40939302	15 ml: 0.1	DURAN® borosilicate glass 3.3



Centrifuge tubes, conical, with rim, ungraduated

Packing: 100 pieces/box

	Capacity	Material	Dimensions
40940010	15 ml	AR-Glas® (soda glass)	approx. 112 x 17 mm
40940014	14.5 ml	AR-Glas® (soda glass)	approx. 100 x 17 mm
40940310	15 ml	DURAN® borosilicate glass 3.3	approx. 112 x 17 mm



Centrifuge tubes, conical, with rim, graduated

Fused white graduation "ASSISTENT-PERMANENT", with mark at 15 ml.

Available with blue or amber graduation on request.

Dimensions approx. 112 x 17 mm

Packing unit 10 pieces, 100 pieces/box

	Graduation	Material
40942001	10 ml : 0.1	AR-Glas® (soda glass)
40942002	15 ml : 0.1	AR-Glas® (soda glass)
40942301	10 ml : 0.1	DURAN® borosilicate glass 3.3
40942302	15 ml : 0.1	DURAN® borosilicate glass 3.3



Centrifuge tubes, conical, with stopper of polyethylene, ungraduated

with interchangeable standard ground

Capacity 10-15 ml, joint size 12/21

Dimensions approx. 115 x 17 mm

Packing: 5 pieces

40943010	AR-Glas® (soda glass)
40943310	DURAN® borosilicate glass 3.3

Centrifuge tubes, conical, with stopper of polyethylene, graduated
with interchangeable standard ground
AR-Glas® (soda glass), fused white graduation "ASSISTENT-
PERMANENT"

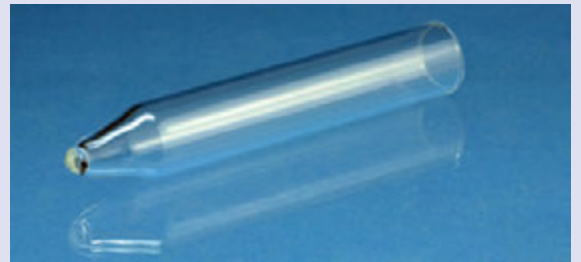
	Graduation	Joint size	Packing/box	Dimensions
40944010	10 ml : 0.1	12/21	5 pieces	approx. 115 x 17 mm



**Centrifuge tubes, short conical bottom, ungraduated,
AR-Glas® (soda glass)**

Cylindrical, rimless, packing: 100 pieces/box

	Capacity	Dimensions
40946001	10-15 ml	approx. 98 x 17 mm
40946002	10-15 ml	approx. 107 x 17 mm
40946003	25-30 ml	approx. 100 x 24/25 mm



**Centrifuge tubes, short conical bottom, graduated,
AR-Glas® (soda glass)**

Rimless, fused white graduation "ASSISTENT-PERMANENT"

	Packing/box	Graduation	Dimensions
40947001	10 pieces	10-15 ml : 0.2	approx. 98 x 17 mm



**Centrifuge tubes, short conical bottom, ungraduated,
DURAN® borosilicate glass 3.3**

Cylindrical, rimless, capacity 10-15 ml, packing: 100 pieces/box

40948001 Dimensions approx. 98 x 17 mm

40948002 Dimensions approx. 107 x 17 mm



**Centrifuge tubes, short conical bottom, graduated,
DURAN® borosilicate glass 3.3**

Cylindrical, rimless, fused white graduation "ASSISTENT-
PERMANENT"

Packing: 10 pieces

	Graduation	Dimensions
40949001	10-15 ml : 0.2	approx. 98 x 17 mm





Centrifuge tubes, round bottom, ungraduated, AR-Glas® (soda glass)

Cylindrical, rimless, thick wall

	Capacity	Packing/box	Dimensions
40950001	10-15 ml	100 pieces	approx. 98 x 17 mm
40950002	10-15 ml	100 pieces	approx. 107 x 17 mm
40950003	25-30 ml	100 pieces	approx. 100 x 24-25 mm
40950004	50-55 ml	50 pieces	approx. 98 x 33-35 mm
40950005	70-100 ml	40 pieces	approx. 115 x 40 mm
40950016	10-12 ml	100 pieces	approx. 100 x 16 mm



Centrifuge tubes, round bottom, graduated, AR-Glas® (soda glass)

Rimless, fused white graduation "ASSISTENT-PERMANENT"

	Division	Packing/box	Capacity	Dimensions
40951001	-	10 pieces	10-15 ml	approx. 98 x 17 mm
40951002	-	10 pieces	10-15 ml	approx. 107 x 17 mm
40951003	-	10 pieces	25 ml	approx. 100 x 24/25 mm
40951004	-	5 pieces	50 ml	approx. 98 x 33-35 mm



Rubber stoppers for centrifuge tubes

40955010 suitable for 17 mm Ø (10-15 ml)



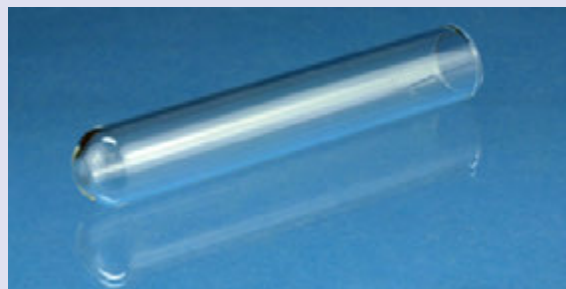
Cellulose stoppers for centrifuge tubes and test tubes

40956010 suitable for 16/17 mm Ø

Centrifuge tubes, round bottom, ungraduated, DURAN® borosilicate glass 3.3

Cylindrical, rimless, thick wall

	Capacity	Packing/box	Dimensions
40958001	10-15 ml	100 pieces	approx. 98 x 17 mm
40958002	10-15 ml	100 pieces	approx. 107 x 17 mm
40958003	25-30 ml	100 pieces	approx. 100 x 24/25 mm
40958004	50-55 ml	50 pieces	approx. 98 x 33-35 mm
40958016	10-12 ml	100 pieces	approx. 100 x 16 mm



Centrifuge tubes, round bottom, graduated, DURAN® borosilicate glass 3.3

Cylindrical, rimless, fused white graduation "ASSISTENT-PERMANENT"

	Division	Packing/box	Capacity	Dimensions
40959001	0.2 ml	10 pieces	10-15 ml	approx. 98 x 17 mm
40959002	0.2 ml	10 pieces	10-15 ml	approx. 107 x 17 mm
40959003	0.5 ml	10 pieces	25 ml	approx. 100 x 24/25 mm
40959004	2 ml	5 pieces	50 ml	approx. 98 x 33-35 mm



Centrifuge tubes with screw cap, conical, AR-Glas® (soda glass)

Ungraduated, with thread GL 14

The screw caps are gas-sterilisable up to +121 °C/+249.8 °F using ethylene oxide.

	Capacity	Packing/box	Dimensions
40970010	10-15 ml	100 pieces	approx. 112 x 17 mm

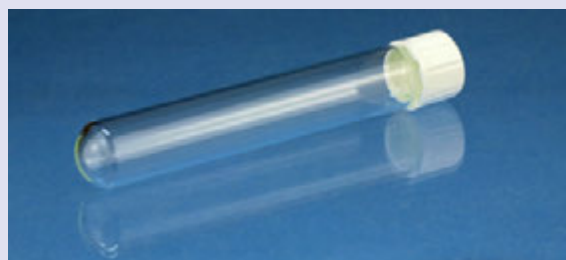


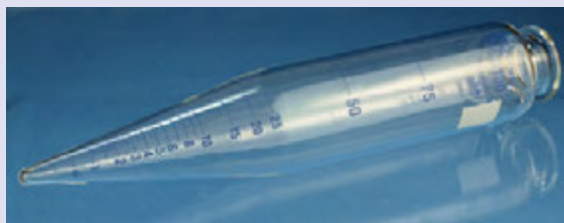
Centrifuge tubes with screw cap, round bottom, AR-Glas® (soda glass)

Cylindrical, ungraduated, with thread GL 14

The screw caps are gas-sterilisable up to +121 °C/+249.8 °F using ethylene oxide.

	Capacity	Packing/box	Dimensions
40976010	10-15 ml	100 pieces	approx. 98 x 17 mm





Centrifuge tubes ASTM, DURAN® borosilicate glass 3.3

Cylindrical

DIN 51793, fused blue graduation "ASSISTENT-PERMANENT", ASTM D 96, with conical bottom

40930010	
Graduation 0 - 0.5 ml	0.05 ml
Graduation 0.5 - 2 ml	0.1 ml
Graduation 2 - 3 ml	0.2 ml
Graduation 3 - 5 ml	0.5 ml
Graduation 5 - 10 ml	1 ml
Graduation 25 - 100 ml	25 ml
Graduation 10 - 25 ml	5 ml



Pear shape

DIN 51793, fused blue graduation "ASSISTENT-PERMANENT", ASTM D 96, with cylindrical bottom

40931010	
Graduation 0 - 1.5 ml	0.1 ml
Graduation 3 - 5 ml	0.5 ml
Graduation 1.5 - 3 ml	0.5 ml
Graduation 5 - 10 ml	1 ml
Graduation 25 - 100 ml	25 ml
Graduation 10 - 25 ml	5 ml



Calcium chloride tubes

U-shape

Clear glass, with two side arms

	Length	Outside Ø
40895010	approx. 100 mm	approx. 16 mm
40895012	approx. 125 mm	approx. 15 mm
40895015	approx. 150 mm	approx. 20 mm



with 2 stopcock stoppers

Clear glass, with two side arms

	Joint size	Length	Outside Ø
40896010	12/21	approx. 100 mm	approx. 16 mm
40896012	12/21	approx. 125 mm	approx. 16 mm
40896015	14/23	approx. 150 mm	approx. 20 mm

Extraction apparatus according to Soxhlet, DURAN® borosilicate glass 3.3

with Allihn condenser

with standard grounds, flask joint size 29/32
Joint sizes and capacity of extractors are durably marked.

consisting of:

Extractor no. 41155...

Allihn condenser no. 41153...

Round bottom flask no. 41913...

	Capacity of flask	Extraction capacity	Condenser
41150006	100 ml	30 ml	Joint size 29/32
41150012	100 ml	70 ml	Joint size 34/35
41150018	250 ml	100 ml	Joint size 45/40
41150024	500 ml	150 ml	Joint size 45/40
41150030	500 ml	200 ml	Joint size 45/40
41150036	500 ml	250 ml	Joint size 45/40



with Dimroth condenser

with standard grounds, flask joint size 29/32
Joint sizes and capacity of extractors are durably marked.

consisting of:

Extractor no. 41155...

Dimroth condenser no. 41154...

Round bottom flask no. 41913...

	Capacity of flask	Extraction capacity	Condenser
41151006	100 ml	30 ml	Joint size 29/32
41151012	100 ml	70 ml	Joint size 34/35
41151018	250 ml	100 ml	Joint size 45/40
41151024	500 ml	150 ml	Joint size 45/40
41151030	500 ml	200 ml	Joint size 45/40
41151036	500 ml	250 ml	Joint size 45/40
41151042	500 ml	300 ml	Joint size 60/46
41151048	1000 ml	500 ml	Joint size 60/46
41151054	2000 ml	1000 ml	Joint size 71/51



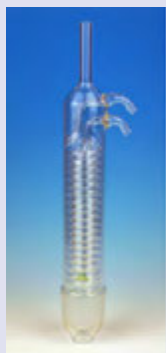
Spare parts for extraction apparatus

Allihn condensers

DURAN® borosilicate glass 3.3

	suitable for	Condenser
41153029	capacity 30 ml	Joint size 29/32
41153034	capacity 70 ml	Joint size 34/35
41153045	capacity 100 ml	Joint size 45/40

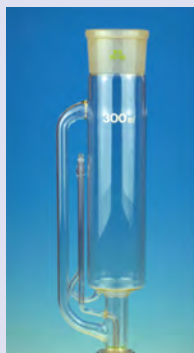




Dimroth condensers

DURAN® borosilicate glass 3.3

	suitable for	Condenser
41154029	capacity 30 ml	Joint size 29/32
41154034	capacity 70 ml	Joint size 34/35
41154045	capacity 100 ml	Joint size 45/40
41154060	capacity 500 ml	Joint size 60/46
41154071	capacity 1000 ml	Joint size 71/51



Extractors

DURAN® borosilicate glass 3.3, with cone joint size 29/32

	Extraction capacity	Socket
41155006	30 ml	Joint size 29/32
41155012	70 ml	Joint size 34/35
41155018	100 ml	Joint size 45/40
41155024	150 ml	Joint size 45/40
41155030	200 ml	Joint size 45/40
41155036	250 ml	Joint size 45/40
41155042	300 ml	Joint size 60/46
41155048	500 ml	Joint size 60/46
41155054	1000 ml	Joint size 71/51



Round bottom flasks

DURAN® borosilicate glass 3.3, with standard ground, reinforced neck with joint size durably marked without stopper

	Joint size	Capacity
41913006	29/32	50 ml
41913008	14/23	50 ml
41913010	19/26	50 ml
41913012	29/32	100 ml
41913014	14/23	100 ml
41913015	19/26	100 ml
41913018	29/32	250 ml
41913024	29/32	500 ml
41913030	29/32	1000 ml
41913036	29/32	2000 ml

Condensers

Liebig condensers, DURAN® borosilicate glass 3.3, without ground
with tube fused-in

- 41981020** Length of jacket approx. 20 cm
- 41981030** Length of jacket approx. 30 cm
- 41981040** Length of jacket approx. 40 cm



Liebig condensers, DURAN® borosilicate glass 3.3, with 2 standard grounds

DIN 12576

	Length	Cone and socket
41982008	approx. 16 cm	Joint size 14/23
41982016	approx. 16 cm	Joint size 19/26
41982024	approx. 25 cm	Joint size 19/26
41982032	approx. 25 cm	Joint size 24/29
41982040	approx. 25 cm	Joint size 29/32
41982048	approx. 40 cm	Joint size 24/29
41982056	approx. 40 cm	Joint size 29/32



Allihn bulb condensers, DURAN® borosilicate glass 3.3, with 2 standard grounds

DIN 12581

	Length	Cone and socket
41987008	approx. 16 cm	Joint size 14/23
41987016	approx. 16 cm	Joint size 19/26
41987024	approx. 25 cm	Joint size 19/26
41987032	approx. 25 cm	Joint size 24/29
41987040	approx. 25 cm	Joint size 29/32
41987048	approx. 40 cm	Joint size 24/29
41987056	approx. 40 cm	Joint size 29/32



Coil condensers, DURAN® borosilicate glass 3.3, without standard ground

with tubing connection at top and at bottom

- 41990064** Length of jacket approx. 20 cm
- 41990072** Length of jacket approx. 30 cm
- 41990080** Length of jacket approx. 40 cm





Coil condensers, DURAN® borosilicate glass 3.3, with 2 standard grounds

with tubing connection at top and at bottom

	Length	Cone and socket
41990008	approx. 16 cm	Joint size 14/23
41990016	approx. 16 cm	Joint size 19/26
41990024	approx. 25 cm	Joint size 19/26
41990032	approx. 25 cm	Joint size 24/29
41990040	approx. 25 cm	Joint size 29/32
41990048	approx. 40 cm	Joint size 24/29
41990056	approx. 40 cm	Joint size 29/32



Coil condensers according to Dimroth, DURAN® borosilicate glass 3.3, with 2 standard grounds

DIN 12591

with tubing connection at top

	Length	Cone and socket
41996008	approx. 16 cm	Joint size 14/23
41996016	approx. 16 cm	Joint size 19/26
41996024	approx. 25 cm	Joint size 19/26
41996032	approx. 25 cm	Joint size 24/29
41996040	approx. 25 cm	Joint size 29/32
41996048	approx. 40 cm	Joint size 24/29
41996056	approx. 40 cm	Joint size 29/32



Condenser tube, DURAN® borosilicate glass 3.3, with standard ground

	Length	Cone
41998010	100 cm	Joint size 29/32



Tubing connectors

made of glass, straight

both sides with olive

- 44160008** Dimensions approx. 80 x 8 mm
- 44160010** Dimensions approx. 100 x 10 mm
- 44160012** Dimensions approx. 120 x 12 mm

Tubing connectors made of glass, T-shape

with olives

	Side length	Outside Ø
44161006	approx. 55 mm	approx. 6 mm
44161008	approx. 45 mm	approx. 8 mm
44161010	approx. 50 mm	approx. 10 mm



made of polypropylene

for tubing of different diameters

44171010 for tubing of approx. 5-17 mm inside Ø



made of polypropylene, T-shape

	Total height	Length of tube	for inside Ø of the tubing
44173004	approx. 15 mm	approx. 20 mm	approx. 3-4 mm
44173006	approx. 23 mm	approx. 30 mm	approx. 4-5 mm
44173008	approx. 31 mm	approx. 40 mm	approx. 6-7 mm
44173010	approx. 39 mm	approx. 55 mm	approx. 8-9 mm
44173012	approx. 47 mm	approx. 69 mm	approx. 10-11 mm



made of polypropylene, Y-shape

	Distance both legs (outside to outside)	Total height	for inside Ø of the tubing
44174004	approx. 14 mm	approx. 24 mm	approx. 3 mm
44174006	approx. 21 mm	approx. 35 mm	approx. 4-5 mm
44174008	approx. 34 mm	approx. 54 mm	approx. 6-7 mm
44174010	approx. 40 mm	approx. 64 mm	approx. 8-9 mm
44174012	approx. 47 mm	approx. 74 mm	approx. 10-11 mm

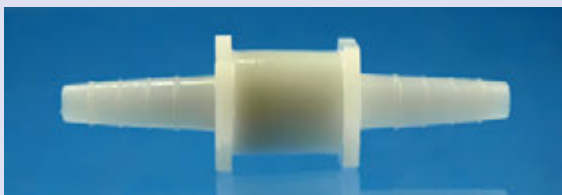


Safety valves

made of DURAN® borosilicate glass 3.3

42856010 for tubing of approx. 8-9 mm inside Ø





made of polyethylene (HDPE)

42860010 for tubing of approx. 6-9 mm inside Ø



Washing bottles

with interchangeable standard ground and spray tubes

made of DURAN® borosilicate glass 3.3, joint size 29/32

43091048 Capacity 250 ml

43091060 Capacity 500 ml

43091066 Capacity 1000 ml



Spare spray tubes

DURAN® borosilicate glass 3.3, with standard ground, joint size 29/32

for washing bottles

43092048 for capacity 250 ml

43092060 for capacity 500 ml

43092066 for capacity 1000 ml



Automatic tilting pipettes, flasks and accessories

Automatic tilting pipettes with standard ground and bottle, clear glass

Bottle 1000 ml, joint size 29/32

Spare bottle no. 41916048

41875003 Capacity 5 ml

41875006 Capacity 10 ml

41875009 Capacity 20 ml

41875012 Capacity 25 ml

41875015 Capacity 50 ml

41875018 Capacity 100 ml

Automatic tilting pipettes, DURAN® borosilicate glass 3.3, without bottle

with standard ground, joint size 29/32

- 41877003** Capacity 5 ml
- 41877006** Capacity 10 ml
- 41877009** Capacity 20 ml
- 41877012** Capacity 25 ml
- 41877015** Capacity 50 ml
- 41877018** Capacity 100 ml



Vacuum Desiccators

with interchangeable cover with knob

DIN 12491, borosilicate glass 3.3, tested for tension, vacuum tightness and pressure

	Capacity	Inside Ø
41160010	approx. 0.7 l	approx. 10 cm
41160015	approx. 2.4 l	approx. 15 cm
41160020	approx. 5.8 l	approx. 20 cm
41160025	approx. 10.5 l	approx. 25 cm
41160030	approx. 18.5 l	approx. 30 cm



with interchangeable cover with socket

DIN 12491, borosilicate glass 3.3, socket joint size 24/29

- 41161015** Inside Ø approx. 15 cm
- 41161020** Inside Ø approx. 20 cm
- 41161025** Inside Ø approx. 25 cm





with interchangeable cover with socket and stopcock

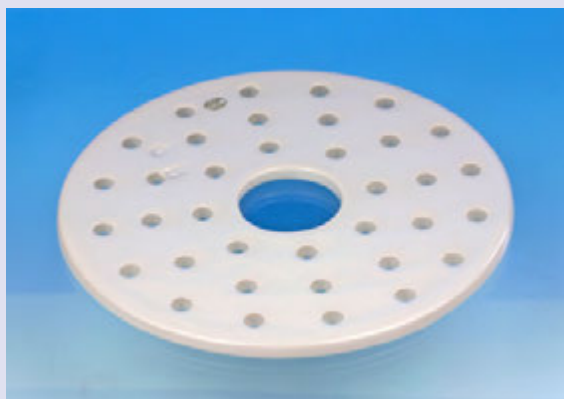
DIN 12491, borosilicate glass 3.3, socket joint size 24/29

	Inside Ø	Capacity
41162015	approx. 15 cm	approx. 2.4 l
41162020	approx. 20 cm	approx. 5.8 l
41162025	approx. 25 cm	approx. 10.5 l

Desiccators Novus with interchangeable cover with knob and side tube

DIN 12491, DURAN® borosilicate glass 3.3, side tube joint size 24/29

	Inside Ø	Capacity
41163015	approx. 15 cm	approx. 2.4 l
41163020	approx. 20 cm	approx. 5.8 l
41163025	approx. 25 cm	approx. 10.5 l



Porcelain plates for desiccators

with many small holes, without base

	suitable for upper inside Ø	Outside Ø
41175010	10 cm	approx. 90 mm
41175015	15 cm	approx. 140 mm
41175020	20 cm	approx. 189 mm
41175025	25 cm	approx. 241 mm
41175030	30 cm	approx. 290 mm



Spare stopcock for desiccator cover with socket

41177024 with standard ground 24/29

Spare stopcock for desiccator with side tube

41178024 with standard ground 24/29



Litmus paper

Blue

Colour changes from blue to red when the nature of the solution changes from alkaline to acidic

	Booklet	Test strips	Range
42005010	100 test strips	approx. 75 x 10 mm	pH 8.0 - 5.0



Red

Colour changes from red to blue when the nature of the solution changes from acidic to alkaline

	Booklet	Test strips	Range
42006010	100 test strips	approx. 75 x 10 mm	pH 5.0 - 8.0



Universal indicator paper

Graduation pH 1 - 2 - 3 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 14

Reel in plastic rotary box

	pH range	Reel
42007010	1 - 14	5 m x 7 mm



Refill pack of 3 reels

without graduation, without plastic box

42008010 Spare reels for no. 42007010





Indicator sticks

pH 4-7 not bleeding, packs of 100 test sticks

42009020 Merck no. 109542.0001



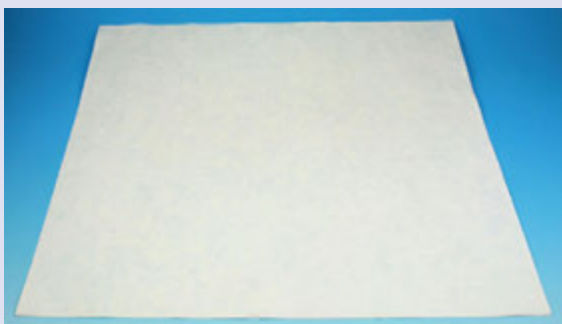
pH 0-14 not bleeding

for rapid determination of pH value of water.

Colours do not fade or fuse even in alkaline solutions.

Distinct colour change facilitates comparison with colour chart.

42009010 Packs of 100 test sticks



Filter media

Filter paper sheets

Smooth, medium fast according to DIN 53137, thickness 0.15 mm, paper weight 70 g/m², rate of filtration 20 s

Packing: 100 pieces

41250045 Dimensions approx. 45 x 45 cm

41250058 Dimensions approx. 58 x 58 cm



Filter paper circles

Grained, fast filtration according to DIN 53137, thickness 0.20 mm, paper weight 75 g/m², rate of filtration 10-12 s

Packing: 100 pieces

41255007 Diameter approx. 70 mm

41255009 Diameter approx. 90 mm

41255011 Diameter approx. 110 mm

41255012 Diameter approx. 125 mm

41255015 Diameter approx. 150 mm

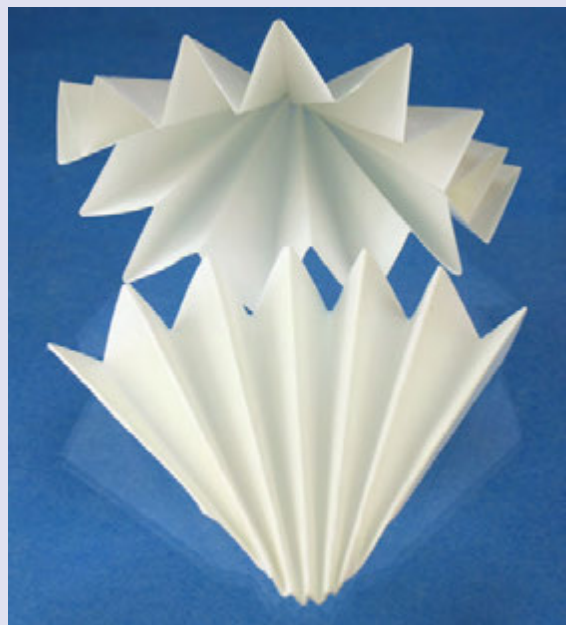
41255018 Diameter approx. 185 mm

41255055 Diameter approx. 55 mm

Filter paper folded

Smooth, medium fast according to DIN 53137, suitable for the analysis of fats (due to low ether-soluble residue), thickness 0.16 mm, paper weight 70 g/m², rate of filtration 22 s
Packing: 100 pieces

- 41260011** Diameter approx. 110 mm
- 41260012** Diameter approx. 125 mm
- 41260015** Diameter approx. 150 mm
- 41260018** Diameter approx. 185 mm
- 41260024** Diameter approx. 240 mm
- 41260027** Diameter approx. 270 mm
- 41260032** Diameter approx. 320 mm
- 41260038** Diameter approx. 385 mm



Filtering flasks, Erlenmeyer shape, DURAN® borosilicate glass 3.3

with plastic hose connection

These filtering flasks with plastic hose connection comply with the regulations of the German Product Safety Act.

- 41265036** Capacity 250 ml
- 41265042** Capacity 500 ml
- 41265048** Capacity 1000 ml
- 41265054** Capacity 2000 ml



Assembly set for no. 41265...

with removable plastic hose connection, short and long screw and seals

- 41266010** Hose connection Ø approx. 9 mm





Filtering flasks, Erlenmeyer shape, borosilicate glass 3.3

DIN EN ISO 6556, with glass hose connection

We recommend the use of filtering flasks with plastic hose connection no. 41265... as these comply with the regulations of the German Product Safety Act.

	Capacity	Height
41270036	250 ml	approx. 145 mm
41270042	500 ml	approx. 175 mm
41270048	1000 ml	approx. 230 mm
41270054	2000 ml	approx. 255 mm



Filtering jars

Clear glass, cylindrical, with spout

41271006	Capacity 50 ml
41271012	Capacity 100 ml
41271018	Capacity 250 ml



Filter funnels

DURAN® borosilicate glass 3.3, porosity 4

Filter funnels in other sizes and porosities are also available.

	Capacity	Stem Ø	Disc Ø
41272006	50 ml	approx. 10 mm	approx. 35 mm
41272012	75 ml	approx. 10 mm	approx. 45 mm
41272030	500 ml	approx. 22 mm	approx. 95 mm



Filter heads, DURAN® borosilicate glass 3.3, without filter disc

with funnel made of polypropylene and 2 seals

Suitable filter disc: see no. 41273...

	for disc Ø	Thread size	Capacity
41273024	24 mm	28 mm	30 ml
41273050	50 mm	54 mm	250 ml
41273090	90 mm	95 mm	1000 ml

Filter discs, DURAN® borosilicate glass 3.3

with glass rim, porosity 4, suitable for filter heads no. 41273...

41273924 Disc 24 mm Ø

41273950 Disc 50 mm Ø

41273990 Disc 90 mm Ø

Other porosities are also available.



Glass rings

Raschig rings

Packing: 1 kg

41400003 Dimensions approx. 3 x 3 mm

41400004 Dimensions approx. 4 x 4 mm

41400005 Dimensions approx. 5 x 5 mm

41400006 Dimensions approx. 6 x 6 mm

41400007 Dimensions approx. 7 x 7 mm

41400008 Dimensions approx. 8 x 8 mm

41400010 Dimensions approx. 10 x 10 mm



Glass beads

made of clear glass, spherical, solid, polished

Packing: 1 kg

41401001 Diameter approx. 1 mm

41401002 Diameter approx. 2 mm

41401003 Diameter approx. 3 mm

41401004 Diameter approx. 4 mm

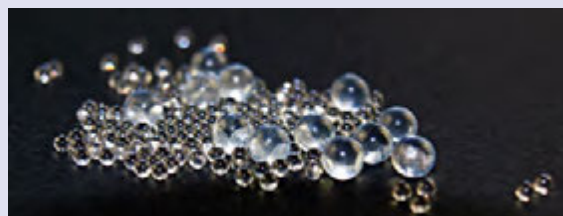
41401005 Diameter approx. 5 mm

41401006 Diameter approx. 6 mm

41401007 Diameter approx. 7 mm

41401008 Diameter approx. 8 mm

41401010 Diameter approx. 10 mm



Boiling stones

Grade A

Anti-bumping granules, for preparative applications

The effect of these granules remains even with several interruptions of the boiling process in vacuum distillation. Long durability.

41402010 Packing: 250 g





Glass wool (Filter cotton)

Superfine

41408002 Box of approx. 30 g

41408003 Packing of 1 kg

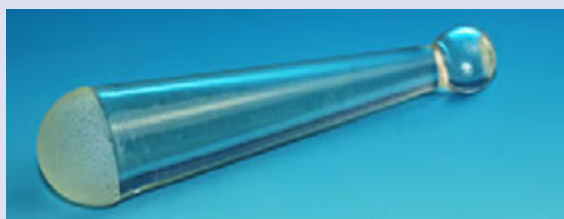


Mortars

made of borosilicate glass 3.3

Rough inside, with spout

	Capacity	Height	Outside Ø
47028008	approx. 125 ml	approx. 60 mm	approx. 80 mm
47028010	approx. 225 ml	approx. 75 mm	approx. 100 mm
47028012	approx. 400 ml	approx. 90 mm	approx. 120 mm
47028015	approx. 700 ml	approx. 110 mm	approx. 150 mm



Pestles

made of borosilicate glass 3.3

with rough grinding surface

	Length	Head Ø	for mortars Ø
47029008	110 mm	28 mm	80 mm
47029010	130 mm	31 mm	100 mm
47029012	150 mm	36 mm	120 mm
47029015	180 mm	40 mm	150 mm



Mortars and pestles

Mortars made of melamine

	Diameter	Capacity	Height
47032001	approx. 12 cm	approx. 400 ml	approx. 8 cm
47032002	approx. 15 cm	approx. 700 ml	approx. 9 cm

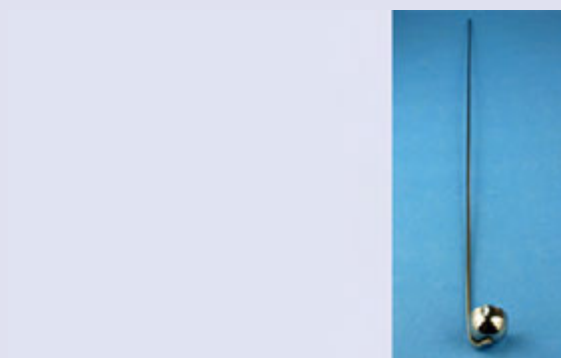
Pestles made of melamine

	Length	Head
47033001	approx. 13 cm	approx. 4 cm Ø
47033002	approx. 15 cm	approx. 4 cm Ø



Phosphorus spoons made of iron

	Bowl	Length
42515010	approx. 20 mm Ø	approx. 45 cm



Spoons and spatulas

Sampling spoons with groove and spatula

made of stainless steel, spoon approx. 18 x 32 mm

42516010 Length approx. 190 mm



Chemical spoons, double

made of stainless steel

42517001 Length approx. 150 mm
Spoon end approx. 17x23 mm and 22x30 mm

42517002 Length approx. 180 mm
Spoon end approx. 22x30 mm and 29x40 mm

42517003 Length approx. 210 mm
Spoon end approx. 22x30 mm and 29x40 mm





Pharmacist spoons

made of stainless steel, spoon approx. 16 x 32 mm

42518010 Length approx. 150 mm



Pharmacist spoons, double

made of stainless steel, spoon end approx. 18 x 36 mm and 10 x 30 mm

42519010 Length approx. 170 mm



Spoon spatulas

made of stainless steel

42520001 Length approx. 150 mm, spoon approx. 36x26 mm, spatula approx. 32x22 mm

42520002 Length approx. 180 mm, spoon approx. 40x28 mm, spatula approx. 36x26 mm

42520003 Length approx. 210 mm, spoon approx. 40x28 mm, spatula approx. 36x26 mm



Pharmacist spatulas

made of stainless steel, with wooden handle

42521001 Total length approx. 190 mm, spatula approx. 100x18 mm

42521002 Total length approx. 230 mm, spatula approx. 130x20 mm

42521003 Total length approx. 250 mm, spatula approx. 150x22 mm

Weighing boats and weighing scoops

Measuring scoops made of polypropylene

White, also suitable as weighing scoop

	Capacity	Length
44240006	2 ml	approx. 60 mm
44240012	5 ml	approx. 82 mm
44240018	10 ml	approx. 100 mm
44240024	25 ml	approx. 135 mm
44240030	50 ml	approx. 160 mm
44240036	100 ml	approx. 200 mm
44240042	250 ml	approx. 260 mm
44240048	500 ml	approx. 315 mm
44240054	1000 ml	approx. 385 mm



Weighing scoops

made of stainless steel

44245010 Length approx. 170 mm



Weighing boats made of DURAN® borosilicate glass 3.3

	Capacity	Total length
44248003	approx. 3 ml	approx. 70 mm
44248006	approx. 6 ml	approx. 80 mm
44248010	approx. 10 ml	approx. 105 mm



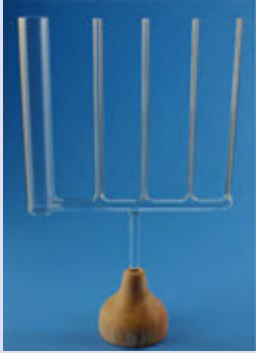
Communicating vessels

Clear glass, with wooden base

for educational purposes

41954010 with 4 different tubes





Clear glass, with wooden base

for educational purposes

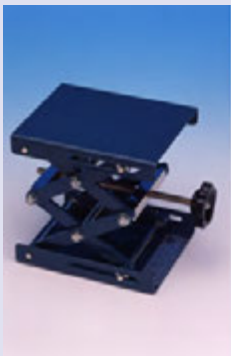
41955010 with 1 large tube and 4 different capillary tubes



Radiometers (Light mills, Crooke's radiometers)

Clear glass, with base

	Height	Ø
42757002	approx. 13 cm	approx. 8 cm



Laboratory lifter

made of aluminium alloy, powder-coated

The lab jack is characterised by a high-quality workmanship and high stability.

Height manually adjustable.

	Platform	Height	Static load
42011010	approx. 160 x 130 mm	approx. 6 - 25 cm	max. 7 kg (DIN 12897)



Cork borer set

made of brass tubing

Nickel-plated, with handles

	for holes of	Set of
41593006	5-11 mm Ø	6 pieces
41593012	5-19 mm Ø	12 pieces

Cork stoppers

First-class quality, low-porous

	Height	Bottom Ø	Outside Ø
41594009	17 mm	6 mm	9 mm
41594013	22 mm	10 mm	13 mm
41594014	22 mm	11 mm	14 mm
41594015	22 mm	12 mm	15 mm
41594016	22 mm	13 mm	16 mm
41594018	22 mm	15 mm	18 mm
41594019	23 mm	16 mm	19 mm
41594020	26 mm	17 mm	20 mm
41594022	26 mm	18 mm	22 mm
41594023	26 mm	19 mm	23 mm
41594026	27 mm	22 mm	26 mm
41594030	27 mm	26 mm	30 mm
41594036	27 mm	32 mm	36 mm
41594040	27 mm	36 mm	40 mm

Dimensions are approximate.



Stoppers

Octagonal top stoppers with standard joint made of polyethylene (HDPE)

resistant to acid and alkali

42990007	Joint size 7/16
42990010	Joint size 10/19
42990012	Joint size 12/21
42990014	Joint size 14/23
42990019	Joint size 19/26
42990024	Joint size 24/29
42990029	Joint size 29/32
42990034	Joint size 34/35
42990045	Joint size 45/40



Glass stoppers with standard ground

Hexagonal top, made of DURAN® borosilicate glass 3.3

42992007	Joint size 7/16
42992010	Joint size 10/19
42992012	Joint size 12/21
42992014	Joint size 14/23
42992019	Joint size 19/26
42992024	Joint size 24/29
42992029	Joint size 29/32
42992034	Joint size 34/35
42992045	Joint size 45/40





Melting point determination

Melting point determination device according to Thiele

DURAN® borosilicate glass 3.3

43004010 Dimensions approx. 120 x 20 mm



Melting point determination tubes, open ends

100 pieces packed in a glass tube

43005010 Dimensions approx. 90 x 1.5 mm Ø outside



Melting point determination tubes, one end closed

100 pieces packed in a glass tube

43006010 Dimensions approx. 90 x 1.5 mm Ø outside



Crucible tongs

Nickel-chromium steel, stainless, double bent

43010010 Length approx. 22 cm

Magnesia grooves

DIN 40680, thermal resistance approx. 560 K

for laboratory test samples and the incineration of small quantities of substances

Packing 25 pieces

42065010 Dimensions approx. 100 x 9 mm

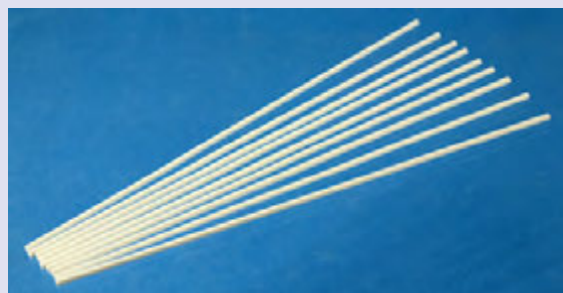


Magnesia rods

DIN 40680, thermal resistance approx. 560 K

Packing 25 pieces

	Ø	Length
42066010	approx. 1.8 mm	approx. 140 mm



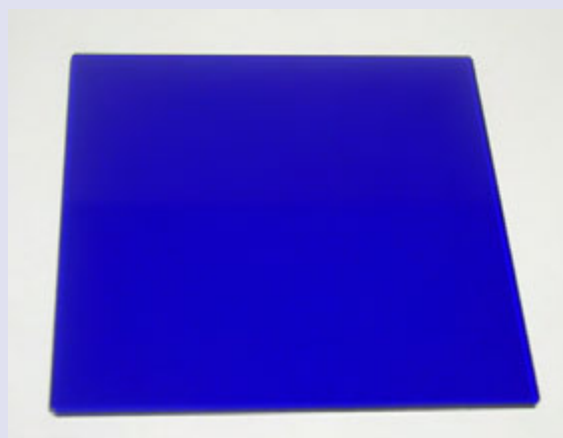
Blue glass plates

Thickness 2.5 - 3.0 mm

41910004 Dimensions approx. 5 x 5 cm

41910008 Dimensions approx. 5 x 10 cm

41910012 Dimensions approx. 10 x 10 cm



Laboratory Film

PARAFILM® M

Physical properties:

Toxicity: non-toxic

Melting point: +60 °C/+140 °F

Flash point: +301 °C/+573.8 °F

Temperature range (continuous use): -45 °C bis +50 °C/-49 °F up to +122 °F

Stretching ability: 200 % **Ultimate elongation:** 300 %

Gas permeability in 24 hours at +23 °C/+73.4 °F with 50 % relative humidity:

Oxygen: $\leq 350 \text{ cm}^3/\text{m}^2$

Nitrogen: $\leq 105 \text{ cm}^3/\text{m}^2$

Carbon dioxide: $\leq 1100 \text{ cm}^3/\text{m}^2$

Water vapour permeability in 24 hours at +37 °C/+98.6 °F and 90 % relative humidity: 0.8 g/m²

Double roll

Flexible, moisture-resistant, gas-permeable sealing film for the laboratory.

Test tubes, cylinders, flasks, cultures etc. are being sealed safely due to the soft and smooth film.

Also suitable for damp bandages as wrapping.

Free of plasticisers.



	Length	Width
42510020	approx. 15 m / 50'	approx. 50 cm / 20"

Roll in dispenser carton

Width approx. 10 cm / 4"

42511010 Length approx. 38 m / 125'

42511020 Length approx. 75 m / 250'



Laboratory film PARAFILM® M, roll in dispenser carton, small

	Width	Length
42512010	approx. 5 cm / 2"	approx. 75 m / 250'



Ground Joint Flasks and Bottles

Erlenmeyer flasks

DURAN® borosilicate glass 3.3, without stopper, with standard ground

Reinforced standard ground neck with joint size with label

	Joint size	Capacity
41915006	14/23	25 ml
41915012	29/32	50 ml
41915014	19/26	50 ml
41915018	29/32	100 ml
41915020	19/26	100 ml
41915024	29/32	200 ml
41915030	29/32	250 ml
41915034	45/40	250 ml
41915036	29/32	300 ml
41915042	29/32	500 ml
41915046	45/40	500 ml
41915048	29/32	1000 ml
41915052	45/40	1000 ml
41915056	29/32	2000 ml



DURAN® borosilicate glass 3.3, with hollow glass stopper

Iodine determination flasks - reinforced standard ground neck with joint size, with label

	Joint size	Capacity
41918006	14/23	25 ml
41918012	29/32	50 ml
41918018	29/32	100 ml
41918020	19/26	100 ml
41918024	29/32	200 ml
41918030	29/32	250 ml
41918036	29/32	300 ml
41918042	29/32	500 ml
41918048	29/32	1000 ml





Flasks, pear shape

Borosilicate glass 3.3, round bottom

with standard ground, volume indicated with label

	Joint size	Capacity
41920004	14/23	5 ml
41920008	14/23	10 ml
41920012	19/26	10 ml
41920020	14/23	25 ml
41920024	19/26	25 ml
41920040	29/32	50 ml
41920044	14/23	50 ml
41920048	19/26	50 ml
41920060	29/32	100 ml
41920064	19/26	100 ml
41920072	29/32	250 ml
41920076	29/32	500 ml
41920080	29/32	1000 ml
41920084	29/32	2000 ml



Other flasks and accessories

Flasks, pointed shape, made of borosilicate glass 3.3

with standard ground, joint size 14/23, volume indicated, with label

41921006	Capacity 5 ml
41921012	Capacity 10 ml
41921018	Capacity 25 ml
41921024	Capacity 50 ml



Flat bottom flasks, narrow neck, DURAN® borosilicate glass 3.3

DIN ISO 1773, with rim, without standard ground, medium length

41924024	Capacity 50 ml
41924030	Capacity 100 ml
41924036	Capacity 250 ml
41924042	Capacity 500 ml
41924048	Capacity 1000 ml
41924054	Capacity 2000 ml

Flat bottom flasks

DURAN® borosilicate glass 3.3, with standard ground, medium-length, reinforced ground neck durably marked with standard ground size, without stopper

	Joint size	Capacity
41911006	29/32	50 ml
41911012	29/32	100 ml
41911015	19/26	100 ml
41911018	29/32	250 ml
41911024	29/32	500 ml
41911030	29/32	1000 ml
41911036	29/32	2000 ml



Round bottom flasks, narrow neck, DURAN® borosilicate glass 3.3

DIN ISO 1773, with rim, without standard ground, medium length

41925024	Capacity 50 ml
41925030	Capacity 100 ml
41925036	Capacity 250 ml
41925042	Capacity 500 ml
41925048	Capacity 1000 ml
41925054	Capacity 2000 ml



Round bottom flasks

DURAN® borosilicate glass 3.3, with standard ground, reinforced neck with joint size durably marked without stopper

	Joint size	Capacity
41913006	29/32	50 ml
41913008	14/23	50 ml
41913010	19/26	50 ml
41913012	29/32	100 ml
41913014	14/23	100 ml
41913015	19/26	100 ml
41913018	29/32	250 ml
41913024	29/32	500 ml
41913030	29/32	1000 ml
41913036	29/32	2000 ml





Cork rings for flasks

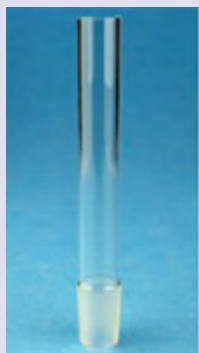
- 41914001** for round bottom flasks 10-100 ml
- 41914002** for round bottom flasks 250-1000 ml
- 41914003** for round bottom flasks 2000 ml



Brushes

with wooden handle and flexible brush
 Total length approx. 44 cm
 Length of handle approx. 37 cm
 Bristle approx. 45 x 20 mm

- 41912010** suitable for flasks with joint size from 29/32 on



Ground Glass Joints

Cones with standard ground

DIN 12242, DURAN® borosilicate glass 3.3, reinforced ground joint, solid rim, joint size permanently marked, form B

- 42382014** Joint size 14/23
- 42382019** Joint size 19/26
- 42382024** Joint size 24/29
- 42382029** Joint size 29/32
- 42382034** Joint size 34/35
- 42382045** Joint size 45/40



Sockets with standard ground

DIN 12242, DURAN® borosilicate glass 3.3, reinforced ground joint, solid rim, joint size permanently marked, form E

- 42383014** Joint size 14/23
- 42383019** Joint size 19/26
- 42383024** Joint size 24/29
- 42383029** Joint size 29/32
- 42383034** Joint size 34/35
- 42383045** Joint size 45/40

Cones with standard ground and extension at bottom

DIN 12242, DURAN® borosilicate glass 3.3, reinforced ground joint, solid rim, joint size permanently marked, form G

42384014 Joint size 14/23

42384024 Joint size 24/29

42384029 Joint size 29/32



Clips made of polyoxymethylene (POM)

for conical ground joints, heat-resistant up to approx. +150 °C/+302 °F

	Colour	for
42386010	green	joint size 10/19
42386012	purple	joint size 12/21
42386014	yellow	joint size 14/23
42386019	blue	joint size 19/26
42386024	green	joint size 24/29
42386029	red	joint size 29/32
42386034	orange	joint size 34/35
42386040	yellow	joint size 40/38
42386045	brown	joint size 45/40



Reduction and expansion adapters

DIN 12257, DURAN® borosilicate glass 3.3, reinforced ground joint, solid rim

	Socket	Cone
42387001	Joint size 14/23	Joint size 19/26
42387002	Joint size 14/23	Joint size 24/29
42387003	Joint size 14/23	Joint size 29/32
42387004	Joint size 19/26	Joint size 24/29
42387005	Joint size 19/26	Joint size 29/32
42387006	Joint size 29/32	Joint size 45/40
42387007	Joint size 24/29	Joint size 34/35
42387008	Joint size 19/26	Joint size 14/23
42387009	Joint size 24/29	Joint size 14/23
42387010	Joint size 29/32	Joint size 14/23
42387011	Joint size 24/29	Joint size 19/26
42387012	Joint size 29/32	Joint size 19/26
42387013	Joint size 29/32	Joint size 24/29
42387014	Joint size 45/40	Joint size 29/32





Sleeves for ground joints and stoppers, disposable

made of PTFE, self-lubricating

The sleeves prevent the ground joints from sticking together.

Outstanding chemical resistance at temperatures from $-200\text{ }^{\circ}\text{C}$ to $+260\text{ }^{\circ}\text{C}$ (from $-328\text{ }^{\circ}\text{F}$ to $+500\text{ }^{\circ}\text{F}$), thickness approx. 0.05 mm

Packing: 10 pieces

42388010 for joint size 14/23

42388019 for joint size 19/26

42388024 for joint size 24/29

42388029 for joint size 29/32

42388045 for joint size 45/40



Distilling adapters, still heads and distilling flasks

Bends with 2 cones ground joint size 29/32

DURAN® borosilicate glass 3.3

41026010 Bent at 75°



Still heads

DURAN® borosilicate glass 3.3, with 2 cones and 1 socket

	Socket	Cones
41029010	Joint size 14/23	Joint size 29/32

Claisen still heads

DURAN® borosilicate glass 3.3, with 2 cones, thermometer socket and extra socket (boiling capillary)

	Sockets	Cones
41033010	Joint size 14/23	Joint size 29/32



Receiver adapters

DURAN® borosilicate glass 3.3, bent

41036010 Socket joint size 29/32



Distilling flasks

made of borosilicate glass 3.3, with side tube

	Capacity	Length of side tube
41037008	100 ml	approx. 200 mm
41037016	250 ml	approx. 200 mm
41037024	500 ml	approx. 200 mm
41037032	1000 ml	approx. 250 mm



Water Analysis

Equipment for water analysis

Gas washing bottles according to Drechsel

Clear glass, **with head** DIN 12596 with standard ground, joint size and size of bottle indicated, joint size 29/32

- 41469012** Capacity 100 ml
- 41469018** Capacity 250 ml
- 41469024** Capacity 500 ml
- 41469030** Capacity 1000 ml



Spare washing bottle heads

DURAN® borosilicate glass 3.3, ground joint size 29/32

- 41469001** without filter disc



Gas washing bottles according to Drechsel with filter disc

Clear glass, **with head** DIN 12596 with standard ground, joint size and size of bottle indicated, joint size 29/32, filter disc 22 mm Ø, porosity 1

- 41470012** Capacity 100 ml
- 41470018** Capacity 250 ml
- 41470024** Capacity 500 ml
- 41470030** Capacity 1000 ml



Spare washing bottle heads

DURAN® borosilicate glass 3.3, ground joint size 29/32

- 41470001** with filter disc



Dean-Stark apparatus

Xylene method, DURAN® borosilicate glass 3.3

consisting of

Round bottom flask, 500 ml, no. 41913024

Liebig condenser, 40 cm, joint size 29/32 no. 41982056

Measuring tube no. 44265020

44265010 Complete

44265020 Spare measuring tube DURAN® borosilicate glass 3.3, with stopcock, fused blue graduation "ASSISTENT-PERMANENT" 10 ml : 0.1, socket at top joint size 29/32, lateral cone joint size 29/32

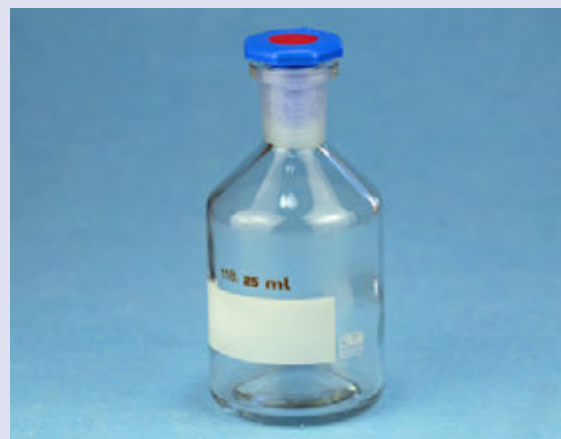


Oxygen bottles according to Winkler

for the determination of the oxygen dissolved in the water

Clear glass, with interchangeable stopper made of HDPE, frosted label and precisely adjusted capacity

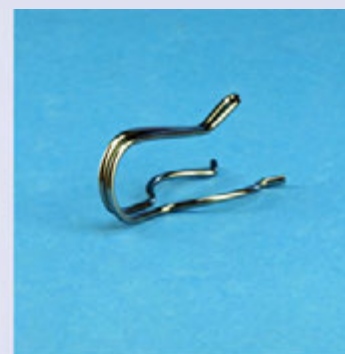
	Capacity	Joint size
44267010	100-150 ml	14/23
44267020	250-300 ml	19/26



Stopper holders for Winkler bottles

made of metal

44268010 for no. 44267010 and 44267020





Shaking bottles

Clear glass, with stopper made of polyethylene, joint size 19/26

44272010 with 4 marks at 10, 20, 30 and 40 ml



Sediment cones according to Imhoff, made of plastic (SAN)

DIN 12672, transparent, with scale, with screw cap at outlet

0 - 2 ml : 0.1 ml
 2 - 10 ml : 0.5 ml
 10 - 40 ml : 1 ml
 40 - 100 ml : 2 ml
 100 - 1000 ml : 50 ml

44274010 Capacity 1000 ml



Sediment cones according to Imhoff, made of borosilicate glass 3.3

DIN 12672, without stopcock, with frosted label
 White graduation

0 - 2 ml : 0.1 ml
 2 - 10 ml : 0.5 ml
 10 - 40 ml : 1 ml
 40 - 100 ml : 2 ml
 100 - 1000 ml : 50 ml

44275010 Capacity 1000 ml



Sediment cones according to Imhoff, made of borosilicate glass 3.3

DIN 12672, with frosted label
 White graduation

0 - 2 ml : 0.1 ml
 2 - 10 ml : 0.5 ml
 10 - 40 ml : 1 ml
 40 - 100 ml : 2 ml

Ring mark at 1000 ml

44276010 without stopcock

44276020 with stopcock

Wooden racks

Holes at base 24 mm Ø, holes at top 86 mm Ø

44277010 for 4 sediment cones

44277020 for 2 sediment cones



Cleaning brushes for sediment cones

Galvanised, nylon bristles, with wooden handle

	Upper brush Ø	Lower brush Ø	Brush length	Total length
44279010	approx. 130 mm	approx. 30 mm	approx. 430 mm	approx. 700 mm



Water-jet pumps according to Geißler

44280010 made of DURAN® borosilicate glass 3.3



Water-jet pumps made of polypropylene

with sleeve nut R 3/4", thread adapter R 1/2", hose connection (olive 10-12 mm Ø) and vacuum connection (olive 6-10 mm Ø) with integrated non-return valve, temperature max. +80 °C/+176 °F (continuously)

44283010 Water-jet pump

44283040 Thread adapter R 3/8"

44283050 Thread adapter M 22x1





Water-jet pumps made of metal

Nickel-plated brass

	Water consumption	Suction volume	Suction power
44284010	235 l/h	290 l/h at 3.5 bar	up to 800 mbar



Voltameters Hofmann with platinum electrodes

Water decomposition apparatus, for educational purposes

consisting of

- Glass part no. 44287010
- Metal support
- 2 clamps no. 40870010
- 2 platinum electrodes no. 44288010

44285010 Scale 0-60 ml : 0.2

Voltameters Hofmann with carbon electrodes

Water decomposition apparatus, for educational purposes

consisting of

- Glass part no. 44287010
- Metal support
- 2 clamps no. 40870010
- 2 carbon electrodes no. 44288010

44286010 Scale 0-60 ml : 0.2

Spare glass part

without support, without electrodes

44287010 Length approx. 56 cm



Spare platinum electrodes

44288010 Length approx. 14 cm

Spare carbon electrodes

44289010 Length approx. 12.5 cm



Separatory Funnels

General information

- interchangeable plugs and reliable retaining devices
- interchangeable stoppers made of polyethylene (HDPE), resistant to alkali and acid
- Socket and neck are reinforced
- Capacity and joint sizes durably marked

Separatory funnels, DURAN® borosilicate glass 3.3, conical, with solid glass plug

DIN ISO 4800, with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42950024	19/26	2.5 mm	50 ml
42950030	19/26	2.5 mm	100 ml
42950048	29/32	4 mm	250 ml
42950060	29/32	4 mm	500 ml
42950066	29/32	6 mm	1000 ml
42950072	29/32	6 mm	2000 ml



DURAN® borosilicate glass 3.3, conical, with PTFE plug

DIN ISO 4800, with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42951024	19/26	2.5 mm	50 ml
42951030	19/26	2.5 mm	100 ml
42951048	29/32	4 mm	250 ml
42951060	29/32	4 mm	500 ml
42951066	29/32	6 mm	1000 ml
42951072	29/32	6 mm	2000 ml



Borosilicate glass 3.3, cylindrical, with solid glass plug

DIN ISO 4800, with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42956024	19/26	2.5 mm	50 ml
42956030	19/26	2.5 mm	100 ml
42956048	29/32	4 mm	250 ml
42956060	29/32	4 mm	500 ml
42956066	29/32	6 mm	1000 ml





Separatory funnels, borosilicate glass 3.3, pear shape, with solid glass plug

DIN ISO 4800, with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42970024	19/26	2.5 mm	50 ml
42970030	19/26	2.5 mm	100 ml
42970048	29/32	4 mm	250 ml
42970060	29/32	4 mm	500 ml
42970066	29/32	6 mm	1000 ml



Borosilicate glass 3.3, pear shape, with PTFE plug

DIN ISO 4800, with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42971024	19/26	2.5 mm	50 ml
42971030	19/26	2.5 mm	100 ml
42971048	29/32	4 mm	250 ml
42971060	29/32	4 mm	500 ml
42971066	29/32	6 mm	1000 ml



Borosilicate glass 3.3, according to Squibb, with solid glass plug

with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42985024	19/26	2.5 mm	50 ml
42985030	19/26	2.5 mm	100 ml
42985048	29/32	4 mm	250 ml
42985060	29/32	4 mm	500 ml
42985066	29/32	6 mm	1000 ml
42985072	29/32	6 mm	2000 ml

Separatory funnels, borosilicate glass 3.3, according to Squibb, with PTFE plug

with stopcock

Packing: 2 pieces in a box

	Stopper	Stopcock bore	Capacity
42986024	19/26	2.5 mm	50 ml
42986030	19/26	2.5 mm	100 ml
42986048	29/32	4 mm	250 ml
42986060	29/32	4 mm	500 ml
42986066	29/32	6 mm	1000 ml
42986072	29/32	6 mm	2000 ml



Funnels

made of DURAN® borosilicate glass 3.3

Angle of 60°, sloping stem

43990004	approx. 3 cm Ø
43990008	approx. 3.5 cm Ø
43990012	approx. 4 cm Ø
43990016	approx. 4.5 cm Ø
43990020	approx. 5 cm Ø
43990024	approx. 5.5 cm Ø
43990028	approx. 6 cm Ø
43990032	approx. 7 cm Ø
43990036	approx. 8 cm Ø
43990040	approx. 10 cm Ø



Analytical funnels

Borosilicate glass 3.3, angle of 60°, with long stem, ribbed, for rapid filtration

43991007	65 mm Ø
43991014	80 mm Ø
43991021	110 mm Ø





made of soda-lime glass

Angle of 60°, sloping stem

44000004	approx. 3 cm Ø
44000008	approx. 3.5 cm Ø
44000012	approx. 4 cm Ø
44000016	approx. 4.5 cm Ø
44000020	approx. 5 cm Ø
44000024	approx. 5.5 cm Ø
44000028	approx. 6 cm Ø
44000032	approx. 7 cm Ø
44000036	approx. 8 cm Ø
44000040	approx. 10 cm Ø
44000044	approx. 12 cm Ø
44000048	approx. 15 cm Ø
44000056	approx. 20 cm Ø (*)
44000060	approx. 25 cm Ø (*)
44000064	approx. 30 cm Ø (*)

* made of borosilicate glass 3.3



Powder funnels made of soda-lime glass

with short, wide stem

	Stem Ø	Stem length	Ø	Total length
44001012	approx. 14 mm	approx. 18 mm	approx. 4 cm	approx. 45 mm
44001020	approx. 18 mm	approx. 25 mm	approx. 5 cm	approx. 55 mm
44001028	approx. 20 mm	approx. 25 mm	approx. 6 cm	approx. 60 mm
44001036	approx. 24 mm	approx. 26 mm	approx. 8 cm	approx. 70 mm
44001040	approx. 26 mm	approx. 27 mm	approx. 10 cm	approx. 80 mm
44001044	approx. 26 mm	approx. 32 mm	approx. 12 cm	approx. 115 mm
44001052	approx. 35 mm	approx. 24 mm	approx. 16 cm	approx. 135 mm

44001052 made of borosilicate glass 3.3



Powder funnels made of polypropylene

Transparent

	Stem Ø	Length of stem	Outside Ø	Length
44002030	15 mm	25 mm	65 mm	68 mm
44002036	21 mm	25 mm	80 mm	76 mm
44002040	22 mm	20 mm	100 mm	94 mm
44002044	26 mm	20 mm	120 mm	110 mm
44002048	28 mm	22 mm	150 mm	138 mm

Dimensions given are approximate.

Funnels made of polyethylene (HDPE)

	Stem length	Ø
49050003	approx. 40 mm	approx. 6 cm
49050006	approx. 50 mm	approx. 8 cm
49050009	approx. 55 mm	approx. 10 cm
49050012	approx. 60 mm	approx. 12 cm
49050015	approx. 65 mm	approx. 14 cm
49050018	approx. 80 mm	approx. 16 cm
49050021	approx. 85 mm	approx. 20 cm



made of polypropylene (analytical funnels)

with fluted inner surface, for rapid filtration

	Ø	Stem length
49051024	approx. 25 mm	approx. 39 mm
49051027	approx. 35 mm	approx. 38 mm
49051030	approx. 45 mm	approx. 44 mm
49051033	approx. 65 mm	approx. 63 mm
49051036	approx. 80 mm	approx. 69 mm
49051039	approx. 100 mm	approx. 82 mm
49051042	approx. 120 mm	approx. 85 mm
49051045	approx. 150 mm	approx. 115 mm
49051048	approx. 180 mm	approx. 143 mm



Glass Tubing and Rods

Tubing made of DURAN® borosilicate glass 3.3

Factory length approx. 1.50 m

Kindly mention required diameter and wall thickness in your order.

42830001	4-5 mm outside Ø - 0.8 mm wall
42830002	6-8 mm outside Ø - 1 mm wall
42830003	9-14 mm outside Ø - 1 mm wall, 15-24 mm outside Ø - 1.2 mm wall, 26-30 mm outside Ø - 1.4 mm wall
42830004	32-38 mm outside Ø - 1.4 mm wall, 40-44 mm outside Ø - 1.6 mm wall, 50 mm outside Ø - 1.8 mm wall

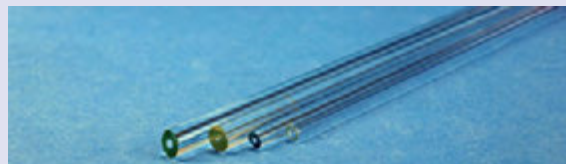


Capillary tubing made of DURAN® borosilicate glass 3.3

Factory length approx. 1.50 m

Kindly mention required inside and outside diameter in your order.

	Inside Ø	Outside Ø
42833010	approx. 0.4-2.7 mm	approx. 6-8 mm





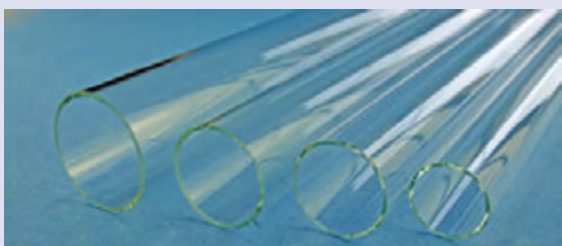
Rods made of DURAN® borosilicate glass 3.3

Factory length approx. 1.50 m

Kindly mention required diameter in your order.

42835001 Diameter approx. 4, 5 and 6 mm

42835002 Diameter approx. 8 mm



Tubing made of AR-Glas® (soda glass)

Factory length approx. 1.50 m

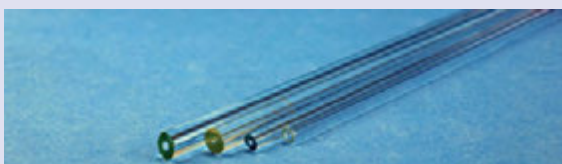
Kindly mention required outside diameter and wall thickness in your order.

42840001 Outside Ø approx. 4-5 mm

42840002 Outside Ø approx. 6-30 mm

42840003 Outside Ø approx. 32-34 mm

42840004 Outside Ø approx. 36-40 mm

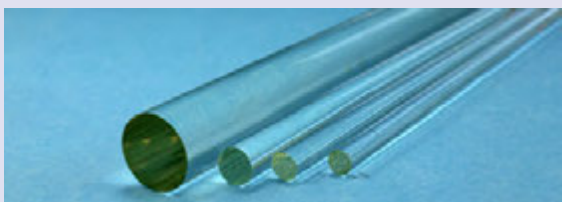


Capillary tubing made of AR-Glas® (soda glass)

Factory length approx. 1.50 m

Kindly mention required inside and outside diameter in your order.

	Inside Ø	Outside Ø
42843010	approx. 1-3 mm	approx. 5-7 mm



Rods made of AR-Glas® (soda glass)

Factory length approx. 1.50 m

Kindly mention required diameter in your order.

42845002 Diameter approx. 4 and 5 mm

42845003 Diameter approx. 6-12 mm



Glass tube cutter with cutting wheel

made of zinc die cast, nickel-plated, for tubes up to approx. 30 mm Ø

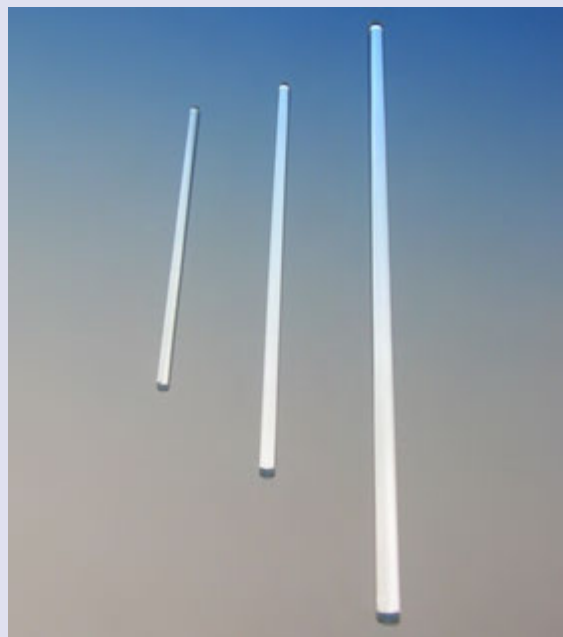
42847001 Spare wheels for no. 42847010

42847010 Glass tube cutter with cutting wheel

Stirring rods made of glass

Fused ends

	Length	Ø
42850006	approx. 150 mm	approx. 4 mm
42850012	approx. 150 mm	approx. 5 mm
42850018	approx. 150 mm	approx. 6 mm
42850024	approx. 200 mm	approx. 3 mm
42850030	approx. 200 mm	approx. 4 mm
42850036	approx. 200 mm	approx. 5 mm
42850042	approx. 200 mm	approx. 6 mm
42850048	approx. 250 mm	approx. 4 mm
42850054	approx. 250 mm	approx. 6 mm
42850060	approx. 250 mm	approx. 7 mm
42850066	approx. 300 mm	approx. 7 mm
42850072	approx. 300 mm	approx. 8 mm
42850078	approx. 300 mm	approx. 9 mm
42850084	approx. 500 mm	approx. 12 mm



Bunsen Burners and Accessories

Bunsen burners and cartridges

All-gas Bunsen burner

with air regulation, needle valve and adjustable nozzle

	Tube Ø	Height	Head Ø
41385010	approx. 13 mm	approx. 160 mm	approx. 17 mm



Bunsen burners

with air regulation, head approx. 15 mm Ø

	Tube Ø	for
41390001	approx. 11 mm	natural gas
41390002	approx. 11/8 mm (outer/inner)	propane/butane gas





Bunsen burners

with stopcock and pilot flame,
height approx. 155 mm, head approx. 16 mm Ø

	Tube Ø	for
41391001	approx. 11/9 mm (outside/inside)	natural gas
41391002	approx. 11/9 mm (outside/inside)	propane/butane gas

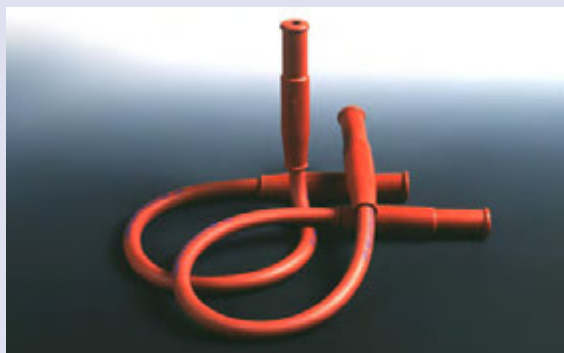


Gas burners according to Teclu

with stopcock and pilot flame, tube approx. 13 mm Ø,
height approx. 160 mm, base approx. 80 mm Ø

41393001 for natural gas

41393002 for propane/butane gas



Safety gas tubing

according to DIN 30665, for all kinds of gases
according to worksheet G 260 of the German Technical and
Scientific Association for Gas and Water, tested and registered

41384001 Length 1000 mm

41384002 Length 1500 mm



Bunsen burners LABOGAZ® 470

with safety valve. Cartridge may always be disconnected easily,
provided that burner is not operating.

The burners no. 41395010 and cartridges no. 41395001 are
incompatible with burners no. 41396010.

41395010 Height including cartridge approx. 24 cm

without cartridge

Cartridges with butane gas

for LABOGAZ® Bunsen burners no. 41395010
Type: CV 470 PLUS

Burners no. 41395010 and cartridges no. 41395001 are incompatible with burners no. 41396010 and cartridges no. 41396020.

UN 2037, class 2

Safety data sheet comes with the item.

	Dimensions	Capacity
41395001	approx. 14 x 11 cm Ø	approx. 450 g (approx. 806 ml)



Bunsen burners LABOGAZ® 206

Assembly system for cartridges without safety valve, gas consumption 55 g/h

Burners no. 41396010 and cartridges no. 41396020 are incompatible with burners no. 41395010.

41396010 without cartridge



Cartridges with butane gas

for burners LABOGAZ® no. 41396010
Exchange of cartridge is only possible when completely empty.
Type: C 206 GLS

The burners no. 41396010 and cartridges no. 41396020 are incompatible with burners no. 41395010.

UN 2037, class 2

Safety data sheet comes with the item.

41396020 Capacity approx. 190 g (approx. 314 ml)



Spirit lamps made of glass with side filler tube and stopper

with ground-on cap, complete with brass wickholder and wick, each in a box

43030010 Capacity approx. 100 ml





Spirit lamps made of glass without filler tube

with ground-on cap, complete with brass wickholder and wick, each in a box

43031010 Capacity approx. 100 ml



Spare wicks

for spirit lamps no. 43030010 and 43031010

43031020 Length approx. 12 cm



Spirit lamps made of stainless steel

with wick

43033010 Capacity approx. 60 ml



Tripods

Height approx. 21 cm

made of galvanised iron

	Ø of inside ring	Ø of outside ring
41090010	approx. 11 cm	approx. 14 cm

Tripods, height approx. 28 cm

made of galvanised iron, suitable for LABOGAZ® Bunsen burners
no. 41395010 and 41396010

	Ø of inside ring	Ø of outside ring
41091010	approx. 11 cm	approx. 14 cm



Triangles made of iron wire

with plain clay tubes

41065004	Length approx. 4 cm
41065006	Length approx. 6 cm
41065008	Length approx. 8 cm
41065010	Length approx. 10 cm



Laboratory protective plates

made of glass ceramic CERAN®

41066001	Dimensions approx. 135 x 135 mm
41066002	Dimensions approx. 155 x 155 mm
41066003	Dimensions approx. 175 x 175 mm

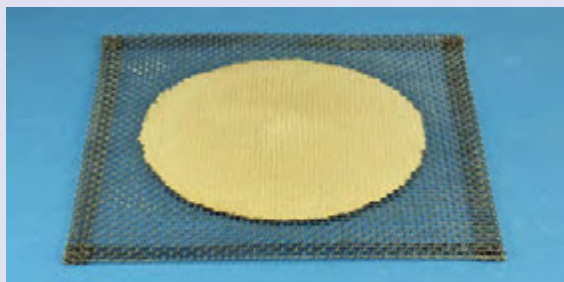


Quadrupods for protective plates

made of chrome-nickel steel, with 4 legs

	for plates	Height
41067001	135 x 135 mm	approx. 210 mm
41067002	155 x 155 mm	approx. 210 mm
41067003	175 x 175 mm	approx. 220 mm





Iron wire gauzes

with ceramic centre

made of galvanised iron wire

	Dimensions	Ceramic centre
41071012	approx. 12 x 12 cm	approx. 80 mm Ø
41071016	approx. 16 x 16 cm	approx. 110 mm Ø
41071020	approx. 20 x 20 cm	approx. 150 mm Ø

Articles made of Rubber and Plastics

Tubing, stoppers and laboratory mats

Laboratory tubing, natural rubber, red

Hardness 50 Shore A



	Wall thickness	Inside Ø
41580004	approx. 1 mm	approx. 4 mm
41580006	approx. 1.5 mm	approx. 6 mm
41580008	approx. 2 mm	approx. 8 mm
41580010	approx. 2 mm	approx. 10 mm
41580012	approx. 2.5 mm	approx. 12 mm

Laboratory tubing, PVC, transparent

Resistant up to +60 °C/+140 °F



	Wall thickness	Inside Ø
41581004	approx. 1.5 mm	approx. 4 mm
41581006	approx. 1.5 mm	approx. 6 mm
41581008	approx. 1.5 mm	approx. 8 mm
41581010	approx. 2 mm	approx. 10 mm
41581012	approx. 2 mm	approx. 12 mm

Laboratory tubing, silicone, transparent, natural-coloured

Hardness 60 Shore A, resistant from -60 °C/-76 °F
up to +180 °C/+356 °F (temporary +250 °C/+482 °F)

	Wall thickness	Inside Ø
41582004	approx. 1 mm	approx. 4 mm
41582006	approx. 1.5 mm	approx. 6 mm
41582008	approx. 2 mm	approx. 8 mm
41582010	approx. 2 mm	approx. 10 mm
41582012	approx. 2 mm	approx. 12 mm



Silicone stoppers, solid

DIN 12871, transparent, hardness 50 Shore A
Max. temperature for use -50 °C +180 °C/-58 °F +356 °F
(for a short time up to +240 °C/+464 °F)
Autoclavable up to +121 °C/+249.8 °F (2 bar)

	Height	Bottom Ø	Top Ø
41583004	20 mm	5 mm	9 mm
41583008	20 mm	10.5 mm	14.5 mm
41583012	20 mm	12.5 mm	16.5 mm
41583016	20 mm	14 mm	18 mm
41583020	25 mm	17 mm	22 mm
41583024	30 mm	18 mm	24 mm
41583028	30 mm	21 mm	27 mm
41583032	30 mm	26 mm	32 mm
41583036	30 mm	29 mm	35 mm
41583040	35 mm	31 mm	38 mm
41583044	40 mm	36 mm	44 mm
41583048	40 mm	41 mm	49 mm
41583052	40 mm	47 mm	55 mm
41583056	55 mm	64.5 mm	75.5 mm





Rubber stoppers, solid

DIN 12871, made of natural rubber, hardness 40 Shore A

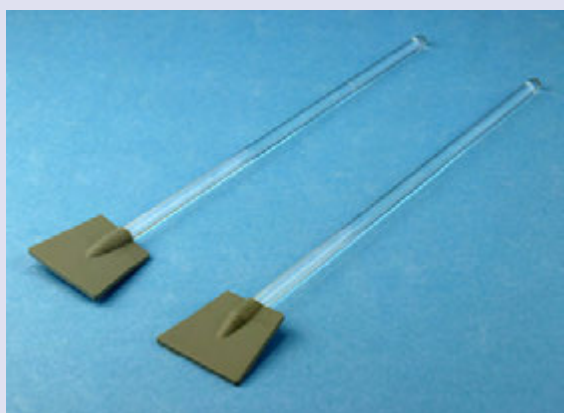
	Height	Bottom Ø	Top Ø
41590002	20 mm	4 mm	8 mm
41590005	20 mm	5 mm	9 mm
41590008	20 mm	8 mm	12 mm
41590011	19 mm	9 mm	12 mm
41590014	20 mm	10.5 mm	14.5 mm
41590017	25 mm	12 mm	17 mm
41590020	20 mm	14 mm	18 mm
41590023	25 mm	17 mm	22 mm
41590026	30 mm	18 mm	24 mm
41590029	30 mm	21 mm	27 mm
41590032	30 mm	26 mm	32 mm
41590035	30 mm	29 mm	35 mm
41590038	35 mm	31 mm	38 mm
41590041	35 mm	34 mm	41 mm
41590044	40 mm	36 mm	44 mm
41590047	40 mm	41 mm	49 mm
41590050	40 mm	47 mm	55 mm
41590053	45 mm	50.5 mm	59.5 mm
41590056	45 mm	56 mm	65 mm
41590059	55 mm	64.5 mm	75.5 mm
41590062	60 mm	71 mm	83 mm
41590065	65 mm	79 mm	92 mm



Rubber stoppers with hole(s)

DIN 12871, made of natural rubber, hardness 40 Shore A

	Holes	Bottom Ø	Top Ø	Height	Bore
41591017	1	12 mm	17 mm	25 mm	5 mm
41591020	1	14 mm	18 mm	20 mm	5 mm
41591029	2	21 mm	27 mm	30 mm	6 mm
41591032	2	26 mm	32 mm	30 mm	6 mm
41591035	2	29 mm	35 mm	30 mm	6 mm
41591041	2	34 mm	41 mm	35 mm	6 mm
41591055	2	47 mm	55 mm	40 mm	8 mm



Rubber policeman, spade-shaped

made of natural rubber, hardness 40 Shore A, without glass rod (suitable glass rod no. 42850042)

	Dimensions	Bore
41596010	approx. 35 x 25 x 32 mm	approx. 5 mm

Laboratory mats made of silicone

temperature resistant up to +260 °C, sterilisable, non-slip, available in 2 colours and 2 sizes

	Dimensions	Colour
41598113	250 x 250 mm	red
41598118	250 x 250 mm	black
41598213	350 x 350 mm	red
41598218	350 x 350 mm	black



Tubing clamps

Band of stainless steel, with thumb screw

41586010	for tubing of 10 mm Ø
41586012	for tubing of 12 mm Ø
41586014	for tubing of 14 mm Ø
41586017	for tubing of 17 mm Ø
41586019	for tubing of 19 mm Ø
41586021	for tubing of 21 mm Ø
41586022	for tubing of 22 mm Ø
41586025	for tubing of 25 mm Ø
41586027	for tubing of 27 mm Ø
41586030	for tubing of 30 mm Ø

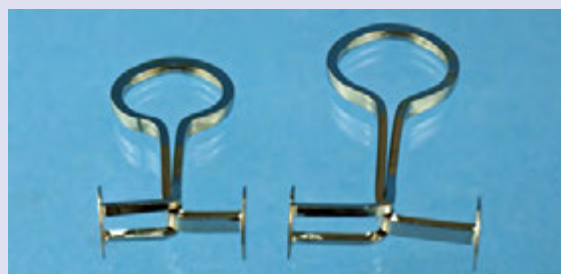


Pinchcocks

according to Mohr

made of nickel-plated brass, sterilisable

	Opening up to	Length
42750050	approx. 12 mm	approx. 50 mm
42750060	approx. 16 mm	approx. 60 mm



Clamps according to Hoffmann

with swivel jaw, made of nickel-plated brass, sterilisable

	Height inside	Opening to
42755020	approx. 16 mm	approx. 20 mm
42755025	approx. 21 mm	approx. 25 mm
42755030	approx. 25 mm	approx. 30 mm



Pipettors and Pipette Fillers

Pipettors

macro-Pipex

The macro-Pipex is not dependent on electricity or batteries, but is manually operated.

Pipetting at the touch of a button, whereby a complete stroke delivers approx. 2 ml.

The standard sterile filter acts as safety stop against the penetration of liquids into the device. The flowing out of the pipette is regulated via the lower control button.

Pipetting can be this simple, safe and inexpensive.

- suitable for all conventional pipettes from 0.5 ml on
- inbuilt protection against the penetration of liquids
- ergonomic design
- maintenance-free



	Sterile membrane filter	Weight
42575010	0.2 µm	approx. 140 g

macro-pipettors

suitable for working with measuring pipettes and volumetric pipettes from 0.1 up to 100 ml.

Standard membrane filter against penetration of liquids.

Resistant to steam sterilisation up to +121 °C/+249.8 °F

42576001 Membrane filter, 3 µm, unsterile, made of polypropylene and PTFE

42576002 Silicone adapter, length approx. 44 mm

42576003 Suction bellow with screw connection

42576004 Valve assembly made of polypropylene, PTFE and silicone

42576005 Adapter housing made of polypropylene

42576010 macro-pipettors with filter



Accupipex II with recharger, CE

with adjustable pipette nozzle, ergonomical, for easy serial pipetting, for all pipettes from 0.1 to 100 ml,

8 hours pipetting without recharging, charging display (LED), with storage stand and wall holder

Absorption and discharge speed as well as the operating mode "blow out" and "free outflow" are adjustable. The powerful motor provides for fast pipetting.

Operating and recharging temperature: +10 °C/+50 °F up to +35 °C/+95 °F

Pipette adapter and membrane filter resistant to steam sterilisation for 20 min. at +121 °C/+249.8 °F.

Pipette adapter: Polypropylene

Filter: PTFE

Battery: AAA 800 mAh 3.6 V

42577001 Recharger with universal plugs, 230 V 50 Hz

42577002 Silicone adapter

42577004 Membrane filter, 0.45 µm, non-sterile

42577010 Accupipex with recharger



Pipettors "pi-pump"

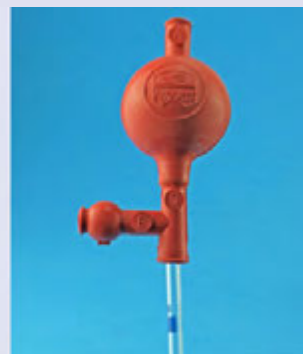
- 42578006** for pipettes up to 0.2 ml - without quick-release valve
- 42578012** for pipettes up to 2 ml
- 42578018** for pipettes up to 10 ml
- 42578024** for pipettes up to 25 ml



Pipette fillers, standard model

made of natural rubber, red, with 3 valves

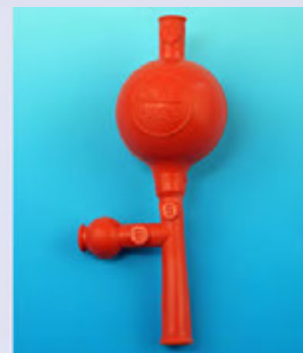
- 42580010** for measuring pipettes and volumetric pipettes up to 10 ml



Pipette fillers, universal model

made of natural rubber, red, with 3 valves, with extended attachment

- 42581010** for measuring pipettes and volumetric pipettes up to 100 ml

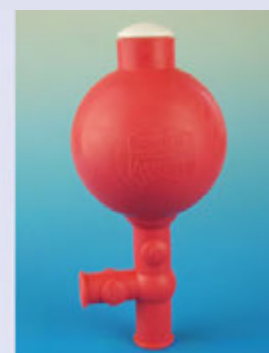


Pipette fillers "Flip"

made of natural rubber, red, with 2 valves

Convenient interior cleaning because of easy removable automatic valve.

- 42581020** for measuring pipettes and volumetric pipettes up to 100 ml



Test Tube Racks

Wooden

without pins

One level

- 42794001** for 6 tubes up to approx. 22 mm Ø
- 42794002** for 12 tubes up to approx. 22 mm Ø
- 42794013** for 6 tubes up to approx. 30 mm Ø



for 6 tubes, without pins

One level

- 42795010** for tubes up to approx. 18 mm Ø



for 12 tubes, without pins

Double level

- 42796010** for tubes up to approx. 18 mm Ø



Test tube racks wooden, for 18 tubes, without pins

Double level

42797010 for tubes up to approx. 18 mm Ø



Wooden test tube racks for 24 tubes, without pins

Double level

42798010 for tubes up to approx. 18 mm Ø



for 6 tubes, with 6 pins

One level

42800010 for tubes up to approx. 18 mm Ø





for 12 tubes, with 6 pins

Double level

42801010 for tubes up to approx. 18 mm Ø



for 18 tubes, with 9 pins

Double level

42802010 for tubes up to approx. 18 mm Ø



for 24 tubes, with 12 pins

Double level

42803010 for tubes up to approx. 18 mm Ø

Test tube racks made of Plexiglas®

for 12 tubes up to approx. 13 mm Ø, without pins

with numbered holes, one level

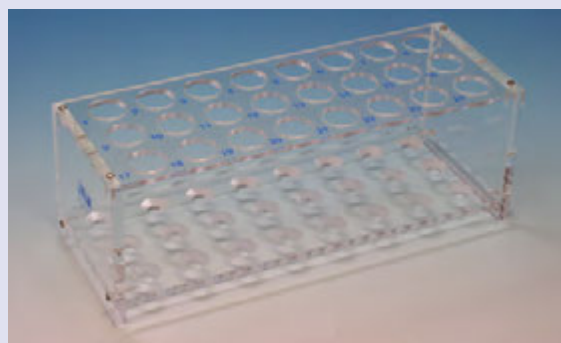
	Length	Width	Height
42807010	approx. 164 mm	approx. 55 mm	approx. 76 mm



for tubes up to approx. 18 mm Ø, without pins

with numbered holes

	for	Length	Width	Height
42808006	6 tubes	approx. 165 mm	approx. 55 mm	approx. 75 mm
42808012	12 tubes	approx. 164 mm	approx. 55 mm	approx. 76 mm
42808024	24 tubes	approx. 220 mm	approx. 80 mm	approx. 79 mm
42808033	33 tubes	approx. 310 mm	approx. 80 mm	approx. 80 mm



for 12 tubes up to approx. 18 mm Ø, with 6 pins

	Length	Width	Height
42809012	approx. 165 mm	approx. 70 mm	approx. 75 mm



Test tube racks made of plastic

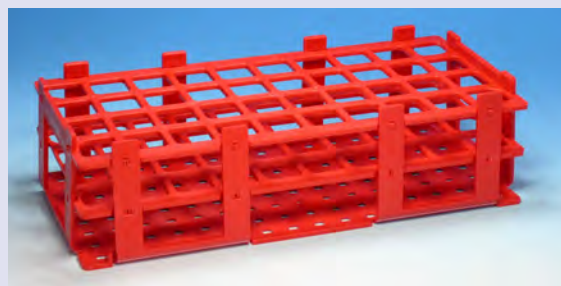
Polypropylene

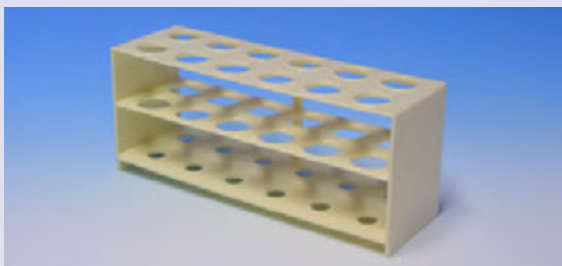
Stackable, alphanumeric markings, autoclavable at +121 °C/ +249.8 °F, permanently -20 °C/-4 °F to +90 °C/+194 °F, suitable for water baths

	Ø	Dimensions	for
42813.13	13 mm	265 x 126 x 75 mm	6 x 14 tubes
42813.18	18 mm	265 x 126 x 75 mm	5 x 11 tubes
42813.20	20 mm	265 x 126 x 75 mm	4 x 10 tubes
42813.25	25 mm	265 x 126 x 88 mm	4 x 8 tubes
42813.30	30 mm	265 x 126 x 88 mm	3 x 7 tubes

6th position of article number stands for colour: 1=blue, 2=yellow, 3=red, 4=white

Please indicate in your order!





Polystyrene

One level, without pins

42814010 for 12 tubes up to approx. 20 mm Ø



Multi tube racks made of polyoxymethylene

Variable by 4 flexible holding areas, suitable for tubes 12 mm Ø up to 30 mm Ø (5 ml up to 50 ml), stackable, autoclavable +121 °C/ +249.8 °F, dimensions approx. 181 x 56 x 76 mm, different colour combinations possible

Packing unit: 2 pieces

42822003 blue/green

42822005 blue/yellow

42822007 pink/white

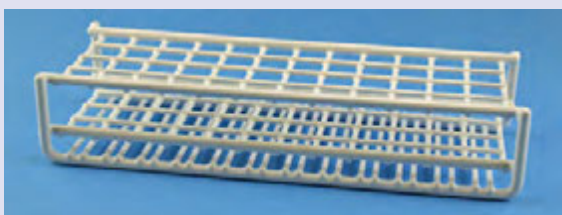
42822013 blue/blue

42822015 white/white

42822017 pink/pink

42822019 yellow/yellow

42822021 green/green

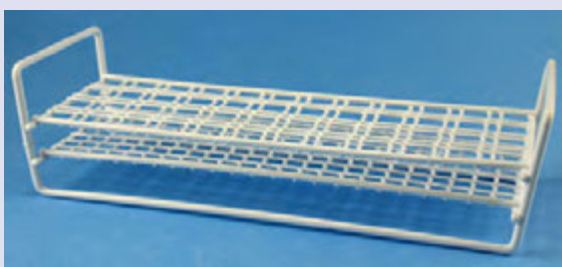


Test tube racks made of wire

Plastic-coated wire, white

for test tubes or centrifuge tubes

	for	for tubes up to	Height
42815012	12 tubes (3 x 4)	approx. 17 mm Ø	approx. 8 cm
42815024	24 tubes (4 x 6)	approx. 17 mm Ø	approx. 8 cm
42815036	36 tubes (3 x 12)	approx. 17 mm Ø	approx. 8 cm
42815048	48 tubes (4 x 12)	approx. 17 mm Ø	approx. 8 cm
42815248	48 tubes (4 x 12)	approx. 12 mm Ø	approx. 4 cm



for 48 (4 x 12) reaction tubes

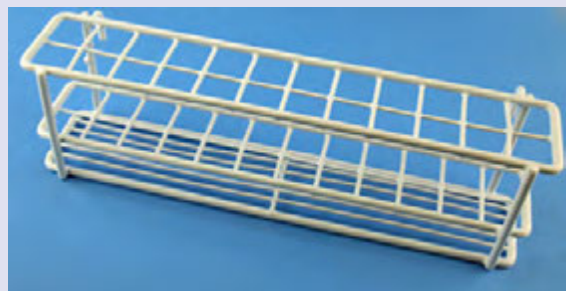
plastic-coated, with handles

42818010 Height approx. 4 cm

Test tube racks made of wire for 24 (2 x 12) test tubes or centrifuge tubes

plastic-coated

	for tubes up to	Dimensions
44131010	approx. 17 mm Ø	approx. 25 x 5 x 7 cm



Laboratory tray 1 and accessories

- 42000008** Complete, consisting of plastic tray, Plexiglas® stand and 5 bottles
- 42000016** Plastic tray, approx. 35 x 25 x 4 cm
- 42000024** Plexiglas® stand, empty
- 42000**
- 42000040** Bottles, wide neck, amber glass, 30 ml, with screw cap and frosted label for inscription (removable)
- 42000048** Bottles, narrow neck, amber glass, 50 ml, with screw cap and frosted label for inscription (removable)



Laboratory tray 2

- 42002008** Complete, consisting of plastic tray no. 42000016, rack for tubes no. 42808024, Plexiglas® stand, no. 42002024, 2 wide neck bottles, 30 ml, no. 42000040, 1 narrow neck bottle, 50 ml, no. 42000048
- 42002024** Plexiglas® stand, small, empty
- 42002**



Dishes and disposal boxes

Dishes made of melamine, white

Stackable

- 49064001** Dimensions approx. 35 x 25 x 4 cm
- 49064002** Dimensions approx. 29 x 16 x 3.5 cm





Disposal boxes made of polypropylene

Sharps disposal box with cover, for used needles and clinical sharps, according to UN regulation

The UN examination includes:

- emission test
- GS test (meets safety requirements in accordance with German Equipment and Product Safety Act)
- license for the transport of infectious waste
- filling mark
- cover with incorporated closures

49070002 Capacity 1.8 litres

Draining Racks

Draining boards made of Plexiglas®, with trough

White back panel, with 23 pegs

49025010 Dimensions approx. 35 x 30 cm



Draining racks made of wire

Plastic-coated, white, suitable for hanging or standing, for 60 test tubes and 5 flasks, with plastic trough

49027010 Dimensions approx. 42 x 17 x 61 cm



Draining racks made of wire, small

Plastic-coated, white, suitable for hanging or standing, for up to 12 test tubes and 11 flasks, with plastic trough

49028010 Dimensions approx. 42 x 17 x 30 cm



Specimens Cups

Urine specimen cups

made of polypropylene

disposable, with scale and marking field, with red snap-on cover and lateral nipple

44115001 Capacity 125 ml



Urine specimen cups made of polypropylene

disposable, with scale and marking field, with green screw cap

44115002 Capacity 125 ml



Transport containers

Faecal tubes, CE, with screw cap

44508010 made of polypropylene, with spoon and brown screw cap, approx. 76 x 20 mm, approx. 15 ml

44508020 Protection containers made of polypropylene, with screw cap, natural-coloured, loose, approx. 30 x 85 mm
suitable for no. 44508010



Porcelain Articles

Laboratory equipment made of porcelain

Evaporating dishes, half-round

with spout, glazed inside and outside

	Height	Capacity	Ø
47000006	approx. 25 mm	approx. 40 ml	approx. 63 mm
47000007	approx. 26 mm	approx. 50 ml	approx. 70 mm
47000008	approx. 34 mm	approx. 75 ml	approx. 80 mm
47000010	approx. 40 mm	approx. 115 ml	approx. 100 mm
47000012	approx. 47 mm	approx. 310 ml	approx. 115 mm
47000015	approx. 45 mm	approx. 370 ml	approx. 150 mm



Evaporating dishes, flat type

with spout, glazed, DIN 12903

	Height	Capacity	Ø
47002008	approx. 20 mm	approx. 40 ml	approx. 80 mm
47002010	approx. 22 mm	approx. 80 ml	approx. 100 mm



Büchner funnels

	Capacity	Stem	Filter area Ø	Height
47005040	approx. 25 ml	approx. 37 mm	approx. 40 mm	approx. 76 mm
47005055	approx. 75 ml	approx. 53 mm	approx. 55 mm	approx. 129 mm
47005070	approx. 135 ml	approx. 75 mm	approx. 70 mm	approx. 150 mm
47005090	approx. 290 ml	approx. 75 mm	approx. 90 mm	approx. 165 mm



Casseroles

Glazed, with handle

	Ø	Capacity	Height
47015010	approx. 102 mm	approx. 290 ml	approx. 69 mm
47015012	approx. 127 mm	approx. 500 ml	approx. 70 mm



Measuring jugs with handle and scale

with spout, cylindrical

	Capacity	Height
47020024	approx. 50 ml	approx. 55 mm
47020030	approx. 100 ml	approx. 72 mm
47020048	approx. 250 ml	approx. 96 mm
47020060	approx. 500 ml	approx. 131 mm
47020066	approx. 1000 ml	approx. 160 mm



Mortars with spout

Inside rough, outside glazed

	Capacity	Height	Ø
47030006	approx. 20 ml	approx. 32 mm	approx. 60 mm
47030008	approx. 70 ml	approx. 40 mm	approx. 80 mm
47030010	approx. 100 ml	approx. 50 mm	approx. 100 mm
47030013	approx. 300 ml	approx. 63 mm	approx. 130 mm
47030015	approx. 400 ml	approx. 65 mm	approx. 150 mm



Pestles with rough grinding surface

made of porcelain

	Length	Head Ø
47031006	approx. 100 mm	approx. 24 mm
47031008	approx. 115 mm	approx. 24 mm
47031010	approx. 135 mm	approx. 30 mm
47031013	approx. 150 mm	approx. 36 mm
47031015	approx. 180 mm	approx. 45 mm



Combustion boats

Unglazed

	Width	Length	Height
47035010	approx. 13 mm	approx. 80 mm	approx. 9 mm



Crucibles without cover

made of porcelain, medium-high form, glazed

	Height	Ø	Capacity
47040025	approx. 20 mm	approx. 25 mm	approx. 5 ml
47040030	approx. 25 mm	approx. 30 mm	approx. 10 ml
47040035	approx. 28 mm	approx. 35 mm	approx. 13 ml
47040040	approx. 32 mm	approx. 40 mm	approx. 20 ml
47040045	approx. 36 mm	approx. 45 mm	approx. 38 ml
47040050	approx. 40 mm	approx. 50 mm	approx. 50 ml





Covers for crucibles

made of porcelain

- 47041025** for 25 mm Ø
- 47041030** for 30 mm Ø
- 47041035** for 35 mm Ø
- 47041040** for 40 mm Ø
- 47041045** for 45 mm Ø
- 47041050** for 50 mm Ø

Stirrers

Mini stirrer, CE

Multi-purpose stirrer for easy stirring tasks with adjusted speed. Drive motor, designed for continuous operation. Fixing is possible at any tripod due to the clamp.

Case made of polypropylene fully encapsulated and chemical-resistant.

Supporting bar, stirring rod and central attachment tube are made of stainless steel.

Power: 230 V, 50 Hz, 3 W

Speed: approx. 750 rpm fixed

Dimensions: approx. 85 x 60 mm Ø

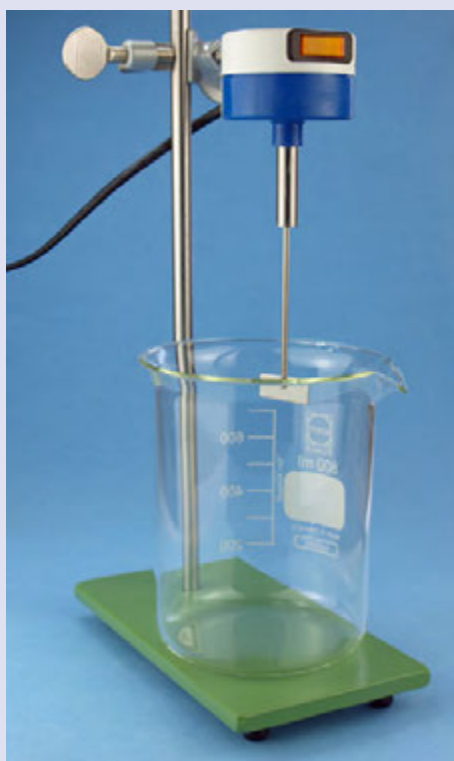
Side arm (supporting bar): approx. 135 x 8 mm Ø

Stirring volume up to approx. 2 l (liquid)

Weight: approx. 210 g

Suitable stirring rods: 42067002 and 42067003

- 42068010** Delivery with stirring rod no. 42067003, without clamp and without stand



Stirrer R14, electronic speed control, CE

Handy, solid laboratory stirrer with stepless speed control for continuous operation. The motor can be attached to every stand by means of a clamp.

Standard stirring element is a stirring rod made of stainless steel with wing end, which is adapted for the power of this motor.

Power: 220 V, 50 Hz

Motor: 25 W

Speed: steplessly from 100-2000 rpm

Dimensions: approx. 67 x 67 x 121 mm

Side arm: approx. 188 x 12 mm

Keyless drill chuck of approx. 38 x 18 mm Ø for stirring rod shafts of up to 4 mm Ø

Stirring volume up to approx. 5 l (liquid)

Weight: approx. 1.2 kg

42068014 Delivery with stirring rod, without stand, without clamp



Stirrer R18, electronic speed control, CE

The solid laboratory stirrer is driven directly and is ideal for stirring tasks of up to 50 litres (liquid), e.g. in schools and laboratories.

Small dimensions, large range of capacity.

Also suitable for high-viscosity solutions.

Suitable stirring rods: 8 mm shaft diameter (no. 42067004)

Output power: 85 W

42068018 Delivery without stand, without clamp, without stirring rod





Plastic stirring rods

Diameter approx. 2.5 mm, rod width approx. 3 mm

42067001 In bags of 500 pieces



Stirring rods made of stainless steel

with elongated stirring end for dipping into small openings.

Total length approx. 120 mm, head approx. 25 x 12 mm
(suitable for mini stirrer no. 42068010)

42067002 Elongated



Stirring rods made of stainless steel

with transverse stirring end for maximum stirring power.

Total length approx. 120 mm, head approx. 25 x 12 mm
(suitable for mini stirrer no. 42068010)

42067003 Transverse



Stirring rods made of stainless steel

suitable for no. 42068018, with transverse stirring end.
Total length approx. 350 mm, head approx. 90 x 15 mm,
shaft diameter approx. 8 mm

42067004 Transverse

Test tube shaker Reamix, CE

Operation by pressure onto the plate or continuous operation. One-hand operation
 Suitable for mixing liquids in test tubes of up to 30 mm Ø as well as in small flasks
 Shaking rate infinitely variable.
 According to VDE
 Power: 230 V, 50 Hz
 Shaking rate: 0-45 Hz
 Power switch with indication light
 Electronically controlled motor, steplessly adjustable from 0-2800 rpm
 Cable 1.5 m long with safety plug
 Plate made of polypropylene, chemical-resistant
 Dimensions: approx. 156 x 150 x 110 mm
 Weight: approx. 1.7 kg

42789010 with double function



Reamix, CE

Test tube shaker with dual function.
 Dimensions: approx. 110 x 100 x 90 mm
 Weight: approx. 1.1 kg
 All other specifications as with article no. 42789010

42789020 Small type



Test tube shakers, optoelectronically controlled, CE

for test tubes, small flasks, beakers, reaction vessels, microplates etc.
 Circular shaking motion with soft start.
 Universal attachment for test tubes up to 30 mm Ø in the centre and foam holes with 8, 10 and 15 mm Ø for centrifuge tubes and other tubes.
 At low speed the foam platform can hold small beakers or dishes for smooth shaking motions.
 Power: 230 V, 50 Hz
 Power switch with indication light
 Shaded-pole motor 45 W
 Speed: steplessly adjustable from 100-2800 rpm
 Attachment: Polypropylene, chemical-resistant
 Shaking rate: 45 Hz
 Timer: 1-60 minutes
 Dimensions: approx. 150 x 160 x 103 mm
 Weight: approx. 1.9 kg

42789030 with dual function



Magnetic Stirrers

Mini magnetic stirrer, CE

in flat housing made of polypropylene, fully encapsulated. The synchronous motor is rated for continuous operation at 500 rpm. This device is suitable for light mixing jobs. The housing is fully encapsulated, construction according to VDE, cable with Europlug.

Cable: 1.5 m

Voltage: 230 V, 50 Hz, 4 W

Dimensions: approx. 147 x 77 x 49 mm

Weight: approx. 350 g

42069010 for volumes up to 1 litre (liquid)



Magnetic stirrer, CE, fully electronic speed control

with cover made of stainless steel.

The motor is being readjusted electronically. No speed fluctuations in case of changing viscosity or in case of power fluctuations.

Power: 230 V, 50 Hz

Power consumption: 18 W

Motor: brushless drive motor

Power switch with indicator light

Speed: steplessly adjustable from 100 - 1100 rpm

Cable: 1.5 m long with safety plug

Dimensions: approx. 210 x 245 x 100 mm

Weight: approx. 4.5 kg

42070020 for volumes up to 50 litres (liquid)



Magnetic stirrer, CE, fully electronic speed control

Specifications as with article no. 42070020

Dimensions: approx. 300 x 310 x 100 mm

Weight: approx. 6.5 kg

42070028 for volumes up to 100 litres (liquid)



Magnetic stirrer, CE

with cover made of stainless steel, quiet motor with precise, electronic speed control. Base painted acid-resistant.

Construction according to VDE.

Power: 230 V, 50 Hz

Power consumption: 40 W

Motor: shaded-pole motor

Power switch with indication light

Speed: steplessly adjustable from 80 - 1600 rpm

Cable: 1.5 m long with safety plug

Dimensions: approx. 160 x 160 x 100 mm

Weight: approx. 1.6 kg

Capacity up to approx. 10 litres (liquid)

42070004 without heating

Magnetic stirrer, CE, fully electronic speed control

It is not possible to exceed the given set point.
No speed fluctuations even with different viscosities of the stirring material. Even fluctuations in the mains supply have no effect on that.

Specifications as with article no. 42070004

42070012 without heating

Mini magnetic stirrer, CE

Power: 230 V, 50 Hz
Power consumption: 6 W
Motor: stepper motor
Power switch with indication light
Speed: steplessly adjustable from 10 - 1200 rpm
Cable: 1.5 m long with safety plug
Dimensions: approx. 110 x 100 x 55 mm
Weight: approx. 0.9 kg
Stirring quantity up to approx. 1 litre (liquid)

42070036 without heating



Magnetic stirrer TMA, CE

Cover made of stainless steel, good temperature control.
Base painted acid- and alkali-resistant. Precise, electronic speed control. Construction according to VDE.

Power: 230 V, 50 Hz
Power consumption: 40 watts
Motor: shaded-pole motor
Power switch with indication light
Indication light for heating plate
Diameter of heating plate: approx. 130 mm
Heating power: 500 watts
Temperature control: steplessly from room temperature to +300 °C/+572 °F
Speed: steplessly adjustable from 80 - 1600 rpm
Cable: 1.5 m long with safety plug
Dimensions: approx. 150 x 150 x 100 mm
Weight: approx. 2.5 kg
Stirring quantity up to approx. 10 litres (liquid)

42071004 Circular stainless steel heating plate





Magnetic stirrer TMA, CE, fully electronic

Fully electronic speed and temperature control with digital display and timer as well as connection for a PT-100 temperature sensor

Power: 230 V, 50/60 Hz

Power consumption: 25 W

Motor: shaded-pole motor

Power switch and heating plate switch with LED

Diameter of heating plate: approx. 130 mm

Heating power: 500 W

Temperature control: steplessly from room temperature to +350 °C/+662 °F

Speed: steplessly adjustable from 60 - 1600 rpm

LED display, 4 digits

Cable: 1.5 m long with safety plug

Dimensions: approx. 210 x 145 x 110 mm

Weight: approx. 2.3 kg

Stirring quantity up to approx. 10 litres (liquid)

Further details such as programmable sensor and heating plate temperature, security system, tolerance of setting, stability with and without PT-100 temperature sensor etc. are listed in the manual.

42071012 [Circular stainless steel heating plate](#)



Magnetic stirrer, CE

Fully electronic speed and temperature control, with digital display and timer, as well as connection for PT-100 temperature sensor

Dimensions of heating plate: approx. 135 x 135 mm

All other specifications as with article no. 42071004

42072012 [Square CERAN® heating plate](#)

Magnetic stirrer TMC, CE

Dimensions of heating plate: approx. 135 x 135 mm
 Heating power: 600 W

All other specifications as with article no. 42071004

42072004 Square CERAN® heating plate



Mini magnetic stirrer, CE

with heating

Power: 230 V, 50/60 Hz

Power consumption: 6 W

Motor: stepper motor

Power switch with indication light

Speed: steplessly adjustable from 10 - 1200 rpm

Heating plate: Aluminium anodised

Heating power: 160 W

Temperature: steplessly adjustable from room temperature to +250 °C/+482 °F

Dimensions heating plate: approx. 90 x 90 mm

Cable 1.5 m long with safety plug

Total dimensions: approx. 110 x 100 x 80 mm

Weight: approx. 1.2 kg

Capacity up to approx. 1 litre (liquid)

42073004 Energy-saving device



Magnetic stirring bars

PTFE-coated

Axially magnetised centre, suitable for high, slim vessels such as measuring cylinders, jars etc.

	Length	Ø
42075001	approx. 12 mm	approx. 4.5 mm
42075002	approx. 15 mm	approx. 4.5 mm
42075003	approx. 20 mm	approx. 6 mm
42075004	approx. 25 mm	approx. 6 mm
42075005	approx. 30 mm	approx. 6 mm
42075006	approx. 40 mm	approx. 8 mm
42075007	approx. 50 mm	approx. 8 mm
42075008	approx. 60 mm	approx. 9 mm
42075009	approx. 70 mm	approx. 9 mm





Retrievers made of PTFE

for removing the stirring bar from the liquid

42076010 Dimensions approx. 350 x 8 mm

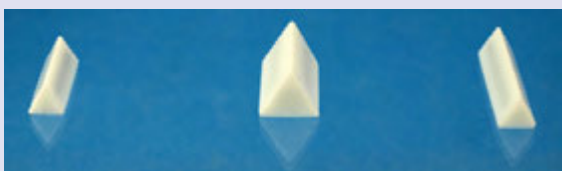


Magnetic stirring bars, PTFE-coated, octagonal

with central ring, suitable for vessels with slightly uneven bottom. The central ring reduces the contact face and the bar automatically gets to the ideal stirring position.

The edged surface creates high turbulences, even with low speed.

	Length	Ø
42077001	approx. 13 mm	approx. 8 mm
42077002	approx. 15 mm	approx. 8 mm
42077003	approx. 25 mm	approx. 8 mm
42077004	approx. 25 mm	approx. 10 mm
42077005	approx. 38 mm	approx. 8 mm
42077006	approx. 38 mm	approx. 10 mm
42077007	approx. 38 mm	approx. 13 mm
42077008	approx. 51 mm	approx. 8 mm
42077009	approx. 51 mm	approx. 10 mm
42077010	approx. 64 mm	approx. 10 mm
42077011	approx. 75 mm	approx. 12 mm



PTFE-coated, triangular

suitable for large vessels with flat bottom

These stirring bars create intense turbulences and detach solids.

	Length	Ø
42078001	approx. 12 mm	approx. 6 mm
42078002	approx. 20 mm	approx. 8 mm
42078003	approx. 25 mm	approx. 8 mm
42078004	approx. 25 mm	approx. 14 mm
42078005	approx. 35 mm	approx. 10 mm
42078006	approx. 40 mm	approx. 14 mm
42078007	approx. 50 mm	approx. 12 mm
42078008	approx. 55 mm	approx. 14 mm
42078009	approx. 80 mm	approx. 16 mm

Magnetic stirring bars, PTFE-coated, oval

suitable for round bottom flasks

The shape of the stirring bar ensures a complete mixing.

	Length	Ø
42079001	approx. 20 mm	approx. 10 mm
42079002	approx. 25 mm	approx. 12 mm
42079003	approx. 35 mm	approx. 16 mm
42079004	approx. 40 mm	approx. 20 mm
42079005	approx. 50 mm	approx. 20 mm
42079006	approx. 65 mm	approx. 20 mm
42079007	approx. 70 mm	approx. 20 mm



Sand bath

TS

for heating sand and liquid material of all kinds.

The bath attachment connected with the device is made of stainless steel.

The temperature regulation is controlled by a sensor. Setup according to VDE.

with cable, 1.5 metres, and safety plug

Bath approx. 140 x 140 x 55 mm inside

Voltage: 230 V

Power consumption: 600 W

Dimensions: approx. 16 x 15 x 15 cm

Temperature control range: +40 °C +330 °C/+104 °F +626 °F

Weight: approx. 1.3 kg

42081010 Capacity 1000 ml



Water Distilling Apparatus

CE

with special outlet for practical emptying and cleaning, complete with heater and directions for use, without tubing

Required quantity of cooling water: approx. 45 l/h
Temperature of cooling water (discharge): max. +60 °C/+140 °F

Spare parts

- No. 40225805 Glass part
- No. 40225810 Levelling U-tubes made of DURAN®
- No. 40225815 Spare O-ring seals made of synthetic rubber (EPDM)
- No. 40225820 Quick-action clamping ring, stainless steel
- No. 40225825 Set of special accessories for filling connection
- No. 40225830 Filling tubes for purifying agent, DURAN®
- No. 40225835 Heater 230 V 2500 W
- No. 40225840 Distillate discharge tube



40225010

Conductivity	0.85 µs
Voltage	220 V, 2500 W
Quality	pH 7.06
Distillate temperature	approx. +60 °C/+140 °F
Capacity	approx. 3.5 l/h
Weight	approx. 4 kg

Water Purification

Ion exchanger

Mixed bed deioniser with conductivity meter, CE

Practical ion exchanger for purified water, according to DAB (German Pharmacopeia) and EuAB (European Pharmacopeia).

Including conductivity meter with inlet hose, outlet hose and wall holder (hose attachments R 3/4").

Blue lightproof cartridge avoids growth of algae.

	Range	Total capacity	Capacity	Dimensions
40075010	0-50 µs/cm (Conductivity)	approx. 4250 l at 1 °dH salt content	approx. 45 l per hour	approx. 600 x 100 mm Ø



Spare cartridge for no. 40075010

The used resin filling can be disposed of in the domestic refuse.

The empty PE cartridge is recyclable by a recycling station (not in the domestic refuse).

Cartridge with used resins may also be returned to us for free disposal.

40076010 2 screw connections

Aquademat (Demineraliser)

Demineralisation device - ion exchanger for demineralised water, according to DAB (German Pharmacopeia) and EuAB (European Pharmacopeia).

The exhaustion is indicated by colour indicator. Change of colour from amber to red.

consisting of three filter cartridges, of which the second cartridge is a safety filter and the third one a spare cartridge.

with accessories, wall holder and directions for use.

	Dimensions	Capacity	Total capacity
40080010	370 x 2 x 125 mm Ø	approx. 40 l per hour	approx. 7500 l at 1 °dH salt content



Reconditioned cartridge for Aquademat

for no. 40080010, regenerated cartridge in return of the exhausted one

Notice: Spare cartridge no. 40088010 will be supplied and invoiced if no cartridge has been returned.

40087010 without hose

Spare cartridge (new) for Aquademat

included in set no. 40080010

40088010 Dimensions H 370 x 125 mm Ø





Pocket pH meter, CE

Practical, battery-powered device

Measuring range: pH 0.0 - 14.0 : 0.1

Electrode approx. 8 x 1.2 cm Ø

Delivery including

- interchangeable electrode
- calibration set
- granulate for standard solutions for pH 4.0 / 6.86 and 9.18
- KCl solution, bottle of approx. 50 ml, for storing the electrode

detailed directions for use

43252010 Pocket pH meter, CE

43252001 Spare electrode with substances for standard solutions, pH 4.0 - 6.86 and 9.18

43252002 Spare granulate for standard solutions, pH 4.0 - 6.86 and 9.18

43252003 Spare KCl solution for storing the electrode, approx. 50 ml



Absorbent paper

Rolls of protection paper

White, one side PE-coated (weight: cellulose 100 g/m² + PE 25 g/m²), protects laboratory benches and drawers

Absorption approx. 170 g/m²

44075040 Size 400 mm x 50 m

44075046 Size 460 mm x 50 m

44075060 Size 600 mm x 50 m

44075092 Size 920 mm x 50 m

Sheets of protection paper

Features like no. 44075...

100 sheets/pack

44080042 Size 420 x 520 mm

44080046 Size 460 x 570 mm

44080050 Size 500 x 600 mm

Detergents

Biorex M

Liquid concentrate for manual cleaning of laboratory equipment

- phosphate-free, alkaline
- easily measurable, self-acting and efficient cleaning. Suitable for glass, porcelain, ceramics, rubber, plastics, silicone, stainless steel
- biodegradable, solvent-free, diluted not sewage-hazardous

UN 1824, class 8

Safety data sheet comes with the item.

	Capacity	pH value of 5 % solution
41406010	5 litres	approx. 12.5



Pipette brushes in sets of 4 pieces

42588010 for measuring pipettes 1-10 ml



Pipette brushes for measuring pipettes

Individually

	for measuring pipettes	Dimensions
42589001	1 ml	approx. 410 x 70 x 4.0 mm Ø
42589002	2 ml	approx. 405 x 75 x 4.5 mm Ø
42589005	5 ml	approx. 400 x 75 x 8.0 mm Ø
42589010	10 ml	approx. 400 x 100 x 12.0 mm Ø



Laboratory Timers

Interval timers with alarm

for hanging, standing or lying.

Available in 3 different colours, easy operation

- 41974016** Running time up to 60 minutes, colour beige
- 41974024** Running time up to 60 minutes, colour blue
- 41974032** Running time up to 60 minutes, colour white
- 41974040** Running time up to 120 minutes, colour white



Digital interval timers, CE

- LCD display, 4 digits showing minutes and seconds
- programmable up to 99 min 59 s
- counts down in seconds
- Alarm sounds for 30 s when countdown reaches zero
- Memory recall function
- individual setting for minutes and seconds
- with magnetic back
- incl. battery (button cell LR 44 1.5 V)

- 41977010** Silver
- 41977020** White



Digital interval timers, table model, without magnetic back, CE

incl. battery AA 1.5 V

Features as with no. 41977010 and 41977020

- 41977030** Silver



Multi-function timers, CE

Interval timer with stopwatch and clock

- LCD display, 6 digits
- with clip, stand, magnetic back and battery
- with clock
- incl. battery (button cell) 1.5 V LR 44

- 41977040** Stopwatch up to 23 h 59 min 59 s
interval timer up to 23 h 59 min 59 s with alarm



Digital interval timers, 2 different timer channels, CE

- with magnet, stand and clip
- large LCD display, 6 digits for hours, minutes and seconds
- separate buttons for hours, minutes and seconds
- two different timer channels
- programmable for 99 h 59 min 59 s
- Stopwatch for counting upwards
- Clock showing standard time
- incl. battery AA 1.5 V

	Weight	Dimensions
41977050	approx. 100 g incl. battery	approx. 76 x 66 x 18 mm



Digital interval timers with large display, CE

- with magnet and stand
- LCD display, 4 digits showing minutes and seconds
- Countdown 99 min 59 s with acoustic signal
- Countdown in seconds
- incl. battery AAA 1.5 V

	Weight	Dimensions
41977060	approx. 70 g incl. battery	approx. 84 x 77 x 14 mm



Nurses lapel watch, non-toxic

- with clip, solid metal chain, 5 mm wide
- metal case, silvery polished
- fluorescent hour, minute and second hand
- quartz movement Seiko PC 21, watch glass made of mineral glass, 25 mm Ø
- including button cell 1.5 V (SR 66)

41975006	blue
41975012	green
41975018	orange
41975024	pink
41975030	red
41975036	white





Hand stopwatches

- Metal case, with 7 jewels
- Graduation 0 – 60 in 1/5 s and 1/100 min
- Solid version
- shock- and dustproof, water-protected

41978010 up to 30 minutes



Stopclocks, table model

Electronic analog table/wall stopclock, clear face with persistent figures and hands. incl. battery AA 1.5 V

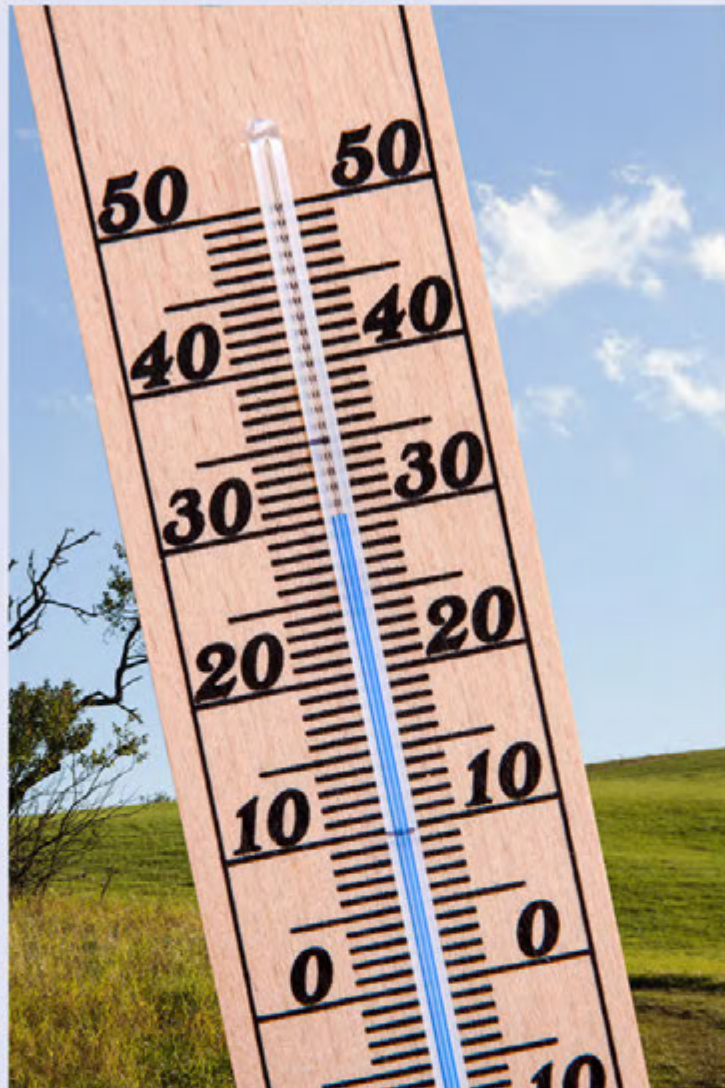
	Inner scale	Outer scale
41979010	0-100/100 min	0-60 s, 0-60 min



Digital stopwatches, black, CE

- LCD display, 7 digits
- Division 0.01 s
- incl. battery (button cell) SR 54 1.55 V
- Functions: Start/Stop/Reset
- Addition/Reset
- Split
- Dual measurement

41980010 Display: 9 h 59 min 59.99 s



Thermometers

Laboratory Thermometers

Chemical thermometers

Mercury filling

DIN 12770, ordinary glass, division 1 °C/1.8 °F, diameter approx. 7-8 mm

Packing: Each in a tube

Range:

43200008	0 +50 °C / 32 +122 °F
43200016	100 °C/212 °F
43200024	150 °C/302 °F
43200032	200 °C/392 °F
43200040	250 °C/482 °F
43200048	300 °C/572 °F
43200056	360 °C/680 °F
43200064	420 °C/788 °F



Red filling

Ordinary glass, division 1 °C/1.8 °F, diameter approx. 7-8 mm

Packing: Each in a tube

Range:

43201008	0 +50 °C / 32 +122 °F
43201016	100 °C/212 °F
43201024	150 °C/302 °F
43201032	200 °C/392 °F
43201040	250 °C/482 °F



Maximum thermometers

for shaking

DIN 12770, reset of mercury by shaking, division 1 °C/1.8 °F
The maximum thermometer +200 °C/+392 °F is being used as control thermometer with sterilisers.

Packing: Each in a tube

	Range	Dimensions
43205024	-10 +150 °C / +14 +302 °F	approx. 260 x 7-8 mm Ø
43205032	-10 +200 °C / +14 +392 °F	approx. 300 x 7-8 mm Ø



Maximum thermometers for shaking, for steriliser temperature control

DIN 12770, short type, with mercury filling, blue reflecting, +80 +220 °C : 2 °C / +176 +428 °F : 3.6 °F

Packing: Each in a tube

43206010 Length approx. 11 cm



Pocket thermometers

Prismatic graduated glass

in nickel case with bayonet catch and clip, red or blue filling, division 1 °C/1.8 °F, length approx. 14 cm

43208008 Range -35 +50 °C / -31 +122 °F

43208016 Range -10 +100 °C / +14 +212 °F



Precision thermometers

DIN 12770, ordinary glass, enclosed scale, Richter top finish with knob, suitable for official testing, mercury filling

Packing: Each in a tube

	Range	Division	Length
43210001	-10 °C +50 °C / +14 °F +122 °F	0.5 °C / 0.9 °F	approx. 22 cm
43210002	-10 °C +50 °C / +14 °F +122 °F	0.1 °C / 0.18 °F	approx. 42 cm
43210003	-10 +100 °C / +14 +212 °F	1 °C / 1.8 °F	approx. 30 cm
43210004	-10 +100 °C / +14 +212 °F	0.5 °C / 0.9 °F	approx. 27 cm
43210005	0 +100 °C / 32 +212 °F	0.1 °C / 0.18 °F	approx. 55 cm
43210006	-10 +150 °C / +14 +302 °F	1 °C / 1.8 °F	approx. 30 cm
43210007	-10 +150 °C / +14 +302 °F	0.5 °C / 0.9 °F	approx. 35 cm
43210008	-10 +200 °C / +14 +392 °F	1 °C / 1.8 °F	approx. 35 cm
43210009	-10 +200 °C / +14 +392 °F	0.5 °C / 0.9 °F	approx. 35 cm



Distillation thermometers

with standard ground 14/23

DIN 12770, with mercury filling, blue reflecting, immersion length with ground 75 mm, immersion tube diameter approx. 7 mm

43225024 Range -10 +150 °C : 0.5 °C / +14 +302 °F : 0.9 °F

43225040 Range -10 +250 °C : 1 °C / +14 +482 °F : 1.8 °F

43225056 Range -10 +360 °C : 1 °C / +14 +680 °F : 1.8 °F



Clinical thermometers without mercury, CE



Classic liquid thermometer made of glass

- **can be disinfected completely** (the temperature of the cleaning solution and disinfectant must not exceed +42 °C/+107.6 °F)
- **non-toxic measuring fluid** Galinstan® (eutectic alloy consisting of gallium, indium and tin)
- **eco-friendly** - may be disposed of as domestic waste

	Range	Tolerance
43310010	+35 °C +42 °C/+95 °F +107.6 °F	± 0.1 °C/32.18 °F



Digital clinical thermometer with signal

Electronic, waterproof, for measuring the body temperature of human and animal, with LCD display and battery LR 41
Each in plastic tube and box, with directions for use

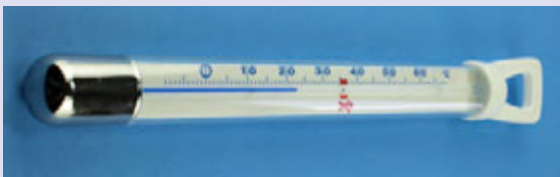
43315010	
Range	+32 °C +42 °C/+89.6 °F +107.6 °F
Measuring time	approx. 1 min at room temperature
Battery life	approx. 250 hours
Accuracy	± 0.1 °C/32.18 °F



Bath thermometers for hospital

Solid finish, plastic, coloured filling

	Range	Length
43690010	0 °C +50 °C/+32 °F +122 °F	approx. 40 cm



Bath thermometer, cylindrical

Floating vertically, coloured filling, completely closed model, shock-protected capillary

	Range	Length
43698010	0 °C +70 °C/+32 °F +158 °F	approx. 24 cm



Bath thermometer in square wooden case

with handle, paper scale, coloured filling

	Range	Length
43700010	-10 °C +50 °C/+14 °F +122 °F	approx. 25 cm

Bath thermometer in boat shape

made of plastic, assorted colours (blue, rose, white)

	Range	Length
43711010	0 °C +50 °C/+32 °F +122 °F	approx. 16 cm



Bath thermometer in fish shape

in plastic frame, coloured filling, measuring range 0 °C/32 °F up to +50 °C/+122 °F

43720010 blue

43720020 pink



In- and Outdoor Thermometers

Thermometers

based on the principle of Galileo Galilei

Galileo discovered that the density of a liquid changes in proportion to its temperature.

The temperature is indicated by discs hanging from coloured spheres. The weight difference of the spheres is 0.006 g only and ensures an accuracy of 1 °C/1.8 °F.

The spheres descend slowly when the temperature increases and they rise when the temperature falls. The temperature has to be read from the lowest disc of the high floating spheres.

The liquid is ozone friendly and hardly inflammable. No toxic fumes are emitted.

- free of CFC
- no cloudiness of the liquid

	43510101	43510102	43510103	43510128
Range	+18 +26 °C / +64.4 +78.8 °F	+18 +24 °C / +64.4 +75.2 °F	+17 +27 °C / +62.2 +80.6 °F	+18 +26 °C / +64.4 +78.8 °F
Division	2 °C / 3.6 °F	1 °C/1.8 °F	1 °C/1.8 °F	2 °C/3.6 °F
Height	33 cm	44 cm	64 cm	28 cm
Spheres	5	7	11	5
Filling of spheres	green, cognac, blue, multi-coloured	red, cognac, blue, green, multi-coloured	red, cognac, blue, green, multi-coloured	red, cognac, blue, multi-coloured



6th position of article number stands for colour: 1=blue, 2=multi-coloured, 3=cognac, 4=green, 5=red
Please indicate in your order!



Room thermometers, beech wood, natural varnish

with coloured filling, range -30 °C +50 °C / -22 °F +122 °F

43513010 Length approx. 20 cm



Freezer-fridge thermometers, digital, CE

- according to EN 13485
- Indication of temperature with corresponding freezer-fridge symbol
- highest and lowest temperature
- switchable °C/°F
- with stand and frame for mounting on surfaces or behind glass (display fridge, vegetable drawer)

43595010

Range	-30 °C +50 °C / -22 °F +122 °F
Division	0.1 °C / 0.18 °F
Weight	approx. 65 g
Dimensions	approx. 72 x 91 x 13 mm
including battery	CR 2032 button cell
Accuracy	± 0.8 °C at -20 °C +10 °C, otherwise ± 1 °C



Freezer thermometers

Officially tested, with holder

43599010 Range -35 °C +25 °C / -31 °F +77 °F



Freezer-fridge thermometers

Cylindrical plastic case, for hanging, coloured filling, range -40 °C +50 °C / -40 °F +122 °F

43600010 Length approx. 21 cm

Window thermometers, Vienna type, fittings of metal

Blue filling, range -50 °C +50 °C

43605010 Length approx. 20 cm



Maximum-minimum thermometers

Plastic case with push button magnet, environmentally friendly capillary filling, without roof, black

43646010 Range -35 °C +50 °C/-31 °F +122 °F



Maximum-minimum thermometers

Plastic case with push button magnet, environmentally friendly capillary filling, with roof, beige

43647010 Range +35 °C +50 °C/+95 °F +122 °F



Sauna hygrometers

Metal, circular, range 0-100 %

43623010 Diameter approx. 10 cm





Manometers (Vacuum gauges) according to Bennert

Each in a box, wooden stand with adjustable mirror glass scale, 0-90 torr

42085001 with mercury filling

Digital Thermometers

Thermometer, electronic, CE

Multi-purpose thermometer, with sensor made of stainless steel and extension cable.

- LCD display
- Temperature Celsius or Fahrenheit
- Maximum and minimum display with temperature memory
- Hi-Lo alarm, programmable
- Display for low battery
- Resolution $\pm 0.1\text{ }^{\circ}\text{C}/\pm 0.18\text{ }^{\circ}\text{F}$: $-19.9\text{ }^{\circ}\text{C}/-3.82\text{ }^{\circ}\text{F}$ to $+199.9\text{ }^{\circ}\text{C}/+391.82\text{ }^{\circ}\text{F}$ (otherwise: $\pm 1\text{ }^{\circ}\text{C}/\pm 1.8\text{ }^{\circ}\text{F}$)
- Precision: $\pm 1\text{ }^{\circ}\text{C}/\pm 1.8\text{ }^{\circ}\text{F}$: $-30\text{ }^{\circ}\text{C}/-22\text{ }^{\circ}\text{F}$ to $+250\text{ }^{\circ}\text{C}/+482\text{ }^{\circ}\text{F}$, otherwise more than $\pm 2\text{ }^{\circ}\text{C}/\pm 3.6\text{ }^{\circ}\text{F}$
- Ambient temperature for plastic case: $-10\text{ }^{\circ}\text{C}/+50\text{ }^{\circ}\text{C}/+14\text{ }^{\circ}\text{F}/+122\text{ }^{\circ}\text{F}$
- Delivery incl. battery (1.5 V AAA) and directions for use

43232010

Range	-50 +300 °C / -58 +572 °F
Cable	approx. 1 m long
Metal sensor	approx. 13 cm long



Digital thermometer "mini"

Light, electronic digital thermometer with temperature memory function, sensor made of stainless steel, with battery

Operating

Right switch set to "ON", left switch set to "TEST" = normal temperature display.

Left switch set to "HOLD" = current display and hold down, °C flashes.

43235010

Max. ambient temperature for plastic case	-10 °C up to +50 °C
Range	-50 °C +150 °C
Division	0.1 °C at -20 °C +150 °C
Accuracy	± 1 °C for -30 +150 °C
Battery life	approx. 5000 h
Immersion depth	approx. 60 mm



Digital pocket thermometers "ThermoJack", CE

Battery-powered, with foldable insertion sensor incl. button cell 3 V

- Folding angle up to 180°
- Accuracy ± 0.5 °C/32.9 °F from - 20 °C/-4 °F to +150 °C/+302 °F (otherwise ± 1 °C/33.8 °F)
- Large display
- Temperature Celsius or Fahrenheit

The thermometer automatically switches on at a folding angle of 45°. It switches off when the sensor is folded up again. The thermometer automatically switches off after approx. 10 minutes, if the folding up of the sensor is being omitted.

Particularly handy and ideal for frequently changing work sites.

The functional thermometer is suitable for temperature measurement of fluid, pasty and semisolid mediums - also for food in accordance with HACCP and EN 13485.

	Range	Division	Length insertion sensor
43238010	-40 °C +250 °C / -40 °F +482 °F	0.1 °C/32.18 °F	approx. 60 mm





Temperature data logger „MicroLite“, CE

robust and watertight

Application in all areas where temperature recording is needed, e.g. food sector, transport and storage business, pharmaceutical industry etc.

Free software available (internet download).

Product features

- Adjustable interval: 1 second up to 1 hour
- Graphic and tabular presentation of measured values
- Export function for Excel
- IP68 waterproof
- USB interface
- Hi-Lo alarm
- Case of plastic (ABS)
- with fixing

43240010

Range	-40 °C +80 °C / -40 °F +176 °F
Division	0.1 °C / 0.18 °F
Lithium battery	1x CR2032 (3 volts)
Memory capacity	32000 measurements
Display	7 segment LCD
Dimensions	approx. 110 x 39 x 26 mm
Weight	approx. 70 g
Connection	USB standard port
Interface	USB 2.0
Accuracy	± 0.3 °C / 0.54 °F



Maximum-minimum thermometer with digital display, CE

for indoor and outdoor, splash-proof, measuring range -20 °C +50 °C/-4 °F +122 °F, temperature Celsius or Fahrenheit

- present temperature / highest and lowest day temperature
- including button cell 1.5 V AAA

43653010 green

43653020 black

Weather station with sender unit, CE

Barometer (tendency), thermometer, hygrometer, radio-controlled clock, date display

Thermometer

- Range -10 °C +60 °C / +14 °F +140 °F
- Resolution 0.1 °C/32.18 °F
- °C or °F

Radio-controlled clock

- incl. 3 batteries AA 1.5 V (LR 6)

Sensor unit

- with LCD display and LED indicator
- low battery warning
- stand-up device, wall mounting
- range dependent on building structure and placement: max. 100 m from station
- incl. 2 batteries AA 1.5 V (LR 6)

43655010

Range	-40 °C +60 °C / -40 °F +140 °F (sensor unit)
Relative humidity	20 - 95 %
Sensor unit	approx. 160 x 43 x 26 mm / 75 g
Station	approx. 180 x 102 x 33 mm / 230 g



Maximum-minimum thermometer, electronic, CE

for measuring indoor and outdoor temperatures

- present temperature/highest and lowest day temperature
- for hanging or standing
- extra thin cable for easily leading through window seals
- waterproof exterior sensor
- including battery 1.5 V AA

43656010

Measuring range inside	-10 °C +50 °C / +14 °F +122 °F
Measuring range outside	-50 °C +70 °C / -58 °F +158 °F
Cable	approx. 3 m long
Temperature	Celsius/Fahrenheit



Maximum-minimum thermometer, solar-powered, CE

with digital display, for measuring indoor and outdoor temperatures

- present temperature/highest and lowest day temperature
- for hanging or standing
- extra thin cable for easily leading through window seals
- waterproof exterior sensor
- incl. interchangeable backup round cell battery 1.5 V AA (LR 44, GA 13)
- Guarantee: 5 years

43657010

Measuring range inside	-20 °C +70 °C / -4 °F +158 °F
Measuring range outside	-40 °C +70 °C / -40 °F +158 °F
Cable	approx. 3 m long
Temperature	Celsius/Fahrenheit
Colour	black
Accuracy	± 1 °C/1.8 °F





Rain Gauges

made of clear plastic, with holder for easier removing. Easily readable scale.

Each graduation mark = 1 mm (1 litre) precipitation per m²

Packing: Each in cardboard box

44278010 Height approx. 25 cm



Hydrometers

Hydrometers

General information:

- All density hydrometers, if not stated differently, have a reference temperature of 20 °C/68 °F
- Baumé hydrometers have a reference temperature of 15 °C/59 °F
- Hydrometers with other reference temperatures are available as well. Please mention the required temperature in your order
- The given lengths must be calculated with a tolerance of ± 2 cm

The hydrometers are with paper scale and steel metal ballast.

Packing: Each in protective plastic tube

Density hydrometers can be manufactured with scale according to specific weight on request. Reference temperatures of 15, 20 or 27.5 °C/59, 68 or 81.5 °F are possible.

(In the following charts you can find an abstract of our hydrometers, further executions with other measuring ranges can be found on our website.)

Density hydrometers

Scale range 0.060 : 0.001 g/cm³

46000... without thermometer, approx. 300 mm long

46001... without thermometer, approx. 160 mm long

46004... with thermometer

Length Thermometer Range	300 mm Without Catalogue no.	160 mm Without Catalogue no.	350 mm 0+35/40:1 °C Catalogue no.	
1.000-1.060	46000008	46001008	46004008	
1.060-1.120	46000009	46001009	46004009	
1.120-1.180	46000010	46001010	46004010	
0.700-2.000	46000040	46001040	46004040	Range finder

Scale range 0.100 g/cm³

46012... without thermometer, division 0.001 g/cm³

Length Thermometer Range	300 mm Without Catalogue no.
0.600-0.700	46012001
0.700-0.800	46012002
0.800-0.900	46012003
0.900-1.000	46012004
1.000-1.100	46012005
1.100-1.200	46012006
1.200-1.300	46012007
1.300-1.400	46012008
1.400-1.500	46012009
1.500-1.600	46012010
1.800-1.900	46012013

Density hydrometers, scale range 0.200 g/cm³

46023... without thermometer, division 0.002 g/cm³

46025... with thermometer, division 0.002 g/cm³

Length	280 mm	350 mm
Thermometer	Without	0+35/40:1 °C
Range	Catalogue no.	Catalogue no.
0.800-1.000	46023002	---
1.000-1.200	46023003	46025003
1.200-1.400	46023004	---
1.400-1.600	46023005	---
1.600-1.800	46023006	---

without thermometer

Division 0.001 g/cm³, length approx. 35 cm

46022003 Range 1.000-1.200 g/cm³

46022004 Range 1.200-1.400 g/cm³

Density hydrometers, different scale ranges, division 0.005 g/cm³

without thermometer

Range:

46040001 0.700-1.000 g/cm³

46040002 1.000-1.300 g/cm³

46040003 1.300-1.600 g/cm³

46040005 1.000-1.400 g/cm³

46040006 1.400-2.000 g/cm³

46040007 1.000-1.500 g/cm³

with thermometer

	Reference temperature	Division	Range	Length
46041001	+20 °C/+68 °F	0.005 g/cm ³	0.700-1.000 g/cm ³	approx. 32 cm

Universal hydrometers

without thermometer

	Division	Range	Length
46105001	0.010/0.020 g/cm ³	0.700-2.000 g/cm ³	approx. 33 cm
46105003	0.010 g/cm ³	1.000-2.000 g/cm ³	approx. 29 cm

with thermometer

	Division	Range	Length
46106001	0.010 / 0.020 g/cm ³	0.700-2.000 g/cm ³	approx. 41 cm

Hydrometers according to Baumé

46140... without thermometer

46141... with thermometer

Length	220 mm	280 mm	320 mm
Thermometer	Without	Without	0 +40:1 °C
Division	1 Bé	0.1 Bé	0.1 Bé
Range	Catalogue no.	Catalogue no.	Catalogue no.
00 - 10	---	46140027	46141027
10 - 20	---	46140028	46141028
20 - 30	---	46140029	46141029
30 - 40	---	46140030	46141030
40 - 50	---	46140031	46141031
50 - 60	---	46140032	46141032
60 - 70	---	46140033	46141033
Length	240 mm		300 mm
0 - 30	46140001	---	46141001
0 - 50	46140003	---	46141003
0 - 70	46140004	---	46141004

Saccharometers according to Baumé see **46269010**

Alcoholmeters in percentage by weight (% mass)

without thermometer

Reference temperature +20 °C/+68 °F

	Range	Division	Length
46165001	0-100	1	approx. 25 cm
46165004	0-30	0.5	approx. 32 cm
46165005	30-60	0.5	approx. 32 cm
46165023	90-100	0.1	approx. 35 cm

Alcoholmeters in percentage by volume, reference temperature 20 °C/68 °F

46170... without thermometer

46171... with thermometer

	Range	Division	Length	Catalogue no.	Catalogue no.
Thermometer				Without	0+35/ 40:1°C
	0-100	1%vol.	260 mm	46170001	46171001
	0-70	1%vol.	360 mm	46170002	46171002

Alcoholmeters according to Richter and Tralles

without thermometer

Reference temperature +20 °C/+68 °F

	Range	Division	Length
46175010	0-100 weight % / volume %	1	approx. 25 cm

with thermometer

Reference temperature +20 °C/+68 °F

	Range	Division	Length
46176010	0-100 weight % / volume %	1	approx. 30 cm

Alcoholmeters according to Tralles

with glass jar in cardboard box, reference temperature +20 °C/+68 °F

46178010 Range 0-50: 2 and 50-100: 1 vol%

Hydrometers for potassium hydroxide

without thermometer

	Reference temperature	Range	Length
46197001	+15 °C/+59 °F	0 - 50 : 1° Baumé	approx. 25 cm

Lactodensimeters according to Gerber

without thermometer

Reference temperature +20 °C/+68 °F

	Division	Range	Length
46205010	0.5	1.020-1.040	approx. 23 cm

with thermometer

Reference temperature +20 °C/+68 °F

	Division	Range	Length
46206010	0.5	1.020-1.040	approx. 23 cm

Lactodensimeters according to Quevenne

without thermometer

Reference temperature +20 °C/+68 °F (+15 °C/+59 °F also available)

	Division	Range	Length
46210010	0.001 g/ml	1.015 - 1.040 g/ml	approx. 23 cm

with thermometer

Reference temperature +20 °C/+68 °F (+15 °C/+59 °F also available)

	Division	Range	Length
46211010	0.001 g/ml	1.015 - 1.040 g/ml	approx. 23 cm

Hydrometers for sodium chloride

without thermometer

with double scale for % weight (Dr. Bischoff) and density (g/cm³),
reference temperature +20 °C/+68 °F

	Range 1	Range 2	Length
46223001	0 - 30 : 0.5 % weight	1.000 - 1.230 : 0.002 g/cm ³	approx. 27 cm

Hydrometers for sea water

without thermometer

1.000 - 1.040 : 0.0005 g/cm³
reference temperature +20 °C/+68 °F

46236001 Length approx. 25 cm

with thermometer

1.000 - 1.040 : 0.0005 g/cm³
reference temperature +20 °C/+68 °F

46236002 Length approx. 27 cm

Hydrometers for must according to Oechsle

without thermometer

0-130: 1 ° Oechsle
reference temperature +20 °C/+68 °F

46250010 Length approx. 30 cm

Hydrometers for wine and must according to Oechsle

without thermometer

0-120: 1 ° Oechsle and 0-15: 1 volume %,
reference temperature +15 °C or +20 °C/+59 °F or +68 °F

46252010 Length approx. 25 cm

Saccharometers according to Baumé

without thermometer

	Reference temperature	Range	Length
46269010	+20 °C/+68 °F	0 - 50: 1° Baumé	approx. 16 cm

Hydrometers for lime milk

without thermometer

Reference temperature +20 °C/+68 °F

46199010 Range 0 - 340 : 5.0 g/ml

Alcoholmeters according to Gay Lussac

with thermometer

	Reference temperature	Range	Length
46181010	+20 °C/+68 °F	0 - 100 : 1	approx. 34 cm

Density hydrometers, set of 6 pieces

without thermometer

Reference temperature +20 °C/+68 °F

	Division	Range	Length
46120010	0.005 g/cm ³	0.700-2.000 g/cm ³	approx. 18 cm

Range finders

without thermometer

	Division	Range
46123020	0.02 g/cm ³	0.700-2.000 g/cm ³

Hydrometers for sodium hydroxide solution

without thermometer

	Reference temperature	Range	Length
46224001	+20 °C/+68 °F	0 - 27 : 0.5 % weight	approx. 25 cm

Hydrometers for phosphoric acid

without thermometer

	Reference temperature	Range	Length
46228001	+15 °C/+59 °F	0 - 30 : 0.5 % weight	approx. 27 cm

Hydrometers for hydrochloric acid

without thermometer

with double scale in % weight and density (g/cm³),
reference temperature +20 °C/+68 °F

	Range 1	Range 2	Length
46230001	0 - 40 : 0.5 % weight	1.000 - 1.210 : 0.002 g/cm ²	approx. 27 cm

Saccharimeters

without thermometer

according to Brix or Balling, in % weight (% mass sucrose/water),
reference temperature +20 °C/+68 °F, length approx. 28 cm

46265016 Range 0-20: 0.2

46265031 Range 0-10: 0.1

with thermometer

according to Brix or Balling, in % weight (% mass sucrose/water),
reference temperature +20 °C/+68 °F

	Range	Length
46266001	0-30: 1	approx. 20 cm
46266003	30-60: 1	approx. 20 cm
46266007	0-10: 0.1	approx. 28 cm
46266024	0-30: 0.2	approx. 30 cm
46266032	10-20: 0.1	approx. 28 cm
46266040	0-20: 0.1	approx. 38 cm

Hydrometers for ammonia

without thermometer

double scale 0.880-1.000: 0.002 g/cm³

	Reference temperature	Range	Length
46186010	+20 °C/+68 °F	0-36: 0.5 % weight	approx. 27 cm

Hydrometers for ammonia with thermometer

double scale 0.880-1.000: 0.002 g/cm³

	Reference temperature	Range	Length
46187010	+20 °C/+68 °F	0-36: 0.5 % weight	approx. 30 cm

Hydrometers for hydrogen peroxide

without thermometer

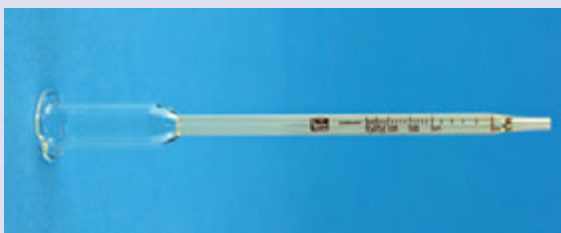
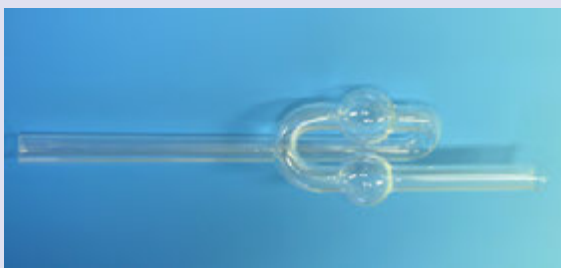
	Reference temperature	Range	Length
46227010	+20 °C/+68 °F	0-50: 1 % weight	approx. 27 cm

Miscellanea

Fermenting tubes

made of glass with 2 bulbs and extension

	Tube Ø	Total length
41350010	10-11 mm	approx. 200 mm



Vinometers

according to Bernadotte made of glass, amber graduation

44200010 Wine test glasses



Hospital Equipment

Equipment for Physician and Hospital



Medicine glasses, CE

Conical, with straight rim, with engraved scale in grams and spoons, 50 pieces/box

41101010 Capacity approx. 25 ml



Medicine cups, CE

made of polypropylene, disposable, approximate scale, capacity approx. 30 ml, smallest packing unit 80 pieces

41102001 colourless

41102002 blue

41102003 red

41102004 yellow

41102005 green



Covers, CE

for medicine cups no. 41102..., 500 pieces in bag, 4000 pieces in carton

41102015 Colour white



Medicine dispensers

with print in German: "Morgen" - "Mittag" - "Abend" - "Nacht" ("Morning" - "Noon" - "Evening" - "Night"), with sliding cover made of clear plastic
Packing: 200 pieces

41103010 White, made of polypropylene, with 4 cases

Medicine tray made of polystyrene

White, for 19 medicine cups no. 41102001 and 19 medicine dispensers no. 41103010 (without cups, without dispensers)

41104010 Dimensions approx. 340 x 440 x 15 mm



Medicine tray (without cups)

consisting of white melamine tray, with Plexiglas® rack, with area for inscription

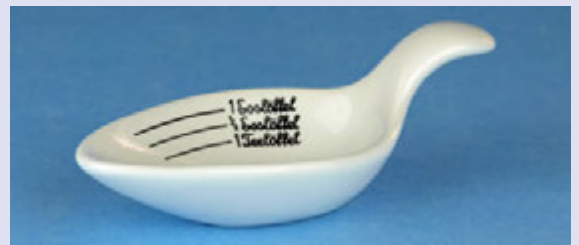
41105010 with 20 holes for medicine cups



Medicine spoons made of porcelain

Glazed, with scale in German (1 Teelöffel = 1 teaspoon, 1/2 Esslöffel = 1/2 tablespoon, 1 Esslöffel = 1 tablespoon)

41111010 White



Medicine spoons made of polypropylene

with scale in German (1 Teelöffel = 1 teaspoon, 1 Esslöffel = 1 tablespoon)

41112010 White



Feeding cups, CE

made of polypropylene, with approximate scale, without cover

44010010 Capacity approx. 250 ml





Feeding cup covers, CE

made of polypropylene, suitable for feeding cups no. 44010010

	Dimensions opening	Opening
44011004	approx. 4 mm	round
44011012	approx. 12 mm	round
44011048	approx. 4 x 8 mm	oval



Tubes made of clear glass, bent

44020010 25 pieces/pack



Sputum cups, CE

made of polypropylene, with removable hinged lid and funnel inset, individually packed

	Capacity	Colour
43112010	approx. 410 ml	white



Kidney dishes made of polypropylene, CE

White, sterilisable

41120010 Length approx. 26 cm



Kidney dishes made of stainless steel, CE

Sterilisable

41130010 Length approx. 25 cm

Bedpans made of polypropylene, CE

with cover, ivory-coloured, sterilisable up to +130 °C/+266 °F

43150010 Diameter approx. 32 cm



Bedpans made of stainless steel, CE

with knob lid, sterilisable

43155010 Diameter approx. 31 cm



Urinals made of polyethylene (LDPE) with cover, CE

Approximate scale, for men

44090010 Capacity 1000 ml



Urinals made of polycarbonate with cover, CE

Transparent, approximate scale, sterilisable, for men

	Capacity	Resistant to steam sterilisation	Hot air
44092010	1000 ml	max. +125 °C/+257 °F	max. +135 °C/+275 °F





Urinals made of polycarbonate without cover, CE

Transparent, approximate scale, sterilisable, for men

	Capacity	Resistant to steam sterilisation	Hot air
44093010	1000 ml	max. +125 °C/+257 °F	max. +135 °C/+275 °F



Urinals made of polyethylene, CE

for women, natural-coloured, approximate scale, with cover, heat-resistant up to +90 °C/+194 °F

44104010 Capacity 1000 ml



Urinal supports made of wire

with white plastic coating, with chain and cover, for hanging on bed frame

44108010 for 1 urinal, triangular shape



Brushes for urinals

with wooden handle

44106010 Dimensions approx. 470 x 160 x 70 mm

Nameplate holder

made of Plexiglas®, for hospital bed

	Length	Ø
42325010	approx. 11 cm	approx. 3.5 cm



Notepad for nameplate holder

42325020 25 sheets



Sand glasses (hourglasses)

in nickel-plated metal case

42871010 1/4 minute

42871020 1/2 minute



Sand glasses (hourglasses) with clip

in nickel-plated metal case

42872010 1/4 minute

42872020 1/2 minute





Eye baths, CE

made of plastic (SAN), 10 pieces in a plastic bag

	Capacity	Height	Ø
40302010	approx. 25 ml	approx. 37 mm	approx. 42 mm



Eye douches according to Schuster, CE

Clear glass, without stopper

40303006 Capacity approx. 50 ml

40303012 Capacity approx. 100 ml



Eye drop bottles according to Strohschein

with ground-in pipette, clear glass, without inscription

	Capacity	Bottle height	Outside Ø upper olive	Total height
40306010	approx. 32 ml	approx. 50 mm	approx. 8 mm	approx. 85 mm (incl. pipette)



Glass rods, both sides fused, CE

Clear glass, disposable, 100 pieces/pack

	Length	Ø
40320010	approx. 100 mm	approx. 3-4 mm

Glass rods, with knob and spatula, CE

Clear glass, disposable, 100 pieces/pack

	Length	Ø
40321010	approx. 100 mm	approx. 3-4 mm



Dropping pipettes, with straight end

Clear glass, solid finish, without rubber teat, 50 pieces/pack
Suitable rubber teat: no. 42620010

	Ø	Length
40326010	approx. 7-8 mm	approx. 80 mm



Dropping pipettes, with bulbous end

Clear glass, solid finish, without rubber teat, 50 pieces/pack
Suitable rubber teat: no. 42620010

	Ø	Length
40328010	approx. 6-7 mm	approx. 70 mm



Dropping pipettes with 2 extensions

according to DAB (German Pharmacopeia)

40334010 Total length approx. 15 cm



Dropping pipettes with German inscription

"Normal 20 Tropfen = 1 g"

40335010 Length approx. 85 mm





Nasal douches according to Fränkel, CE

made of glass

42330010 Capacity approx. 30 g



Nasal douches according to Harke, CE

made of glass

42331010 Capacity approx. 100 g



Tonsil suction set according to Roeder, CE

consisting of bulb made of PVC, free of cadmium, with glass connecting piece and rubber hose connection, with 4 suction tubes

42880010 Bulb Ø approx. 51 mm



Spare tonsil suction tubes, CE

for suction set no. 42880010, total length approx. 180 mm

42881001 Suction part approx. 17 x 13 x 15 mm

42881002 Suction part approx. 20 x 15 x 16 mm

42881003 Suction part approx. 23 x 17 x 18 mm

42881004 Suction part approx. 27 x 20 x 20 mm

Nasal aspirators according to Muck, CE

Clear glass, with rubber stopper

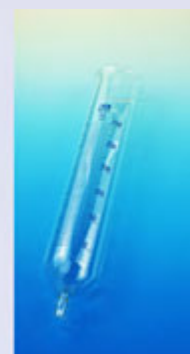
	Wall thickness	Outside Ø	Length
42896010	1.2 ± 0.05 mm	20.0 ± 0.25 mm	approx. 85 mm



Infusion cylinders

with fused graduation "ASSISTENT-PERMANENT", hole at top, olive at bottom, for use in the veterinary medicine

	Division	Capacity
41600018	5 ml	approx. 250 ml
41600030	20 ml	approx. 1000 ml



Specula, CE

made of clear glass, length approx. 15.5 cm

43017001	22-24 mm Ø
43017002	28-30 mm Ø
43017003	34-36 mm Ø
43017004	41-43 mm Ø





Dilators, CE
made of glass

	Upper Ø cone	Cone length
41024001	approx. 20 mm	approx. 70 mm
41024002	approx. 28 mm	approx. 80 mm
41024003	approx. 32 mm	approx. 80 mm



Breast pumps made of glass without ball, CE
with lateral bulb

40765010 with olive 12 mm



Breast pumps made of glass with ball, CE

with lateral bulb, with ball made of flexible PVC,
free of cadmium, each in a box

40766010 Ball Ø approx. 51 mm



Baby feeding bottles made of borosilicate glass 3.3, narrow neck
with scale

	Neck inside Ø	Capacity
41865010	approx. 20 mm	approx. 250 ml

Baby feeding bottles made of borosilicate glass 3.3, wide neck with scale

	Capacity	Neck inside Ø
41866010	approx. 250 ml	approx. 30 mm



Protective paper for treatment couch

White, 2 layers, perforated 38 cm, 100% cellulose

44085001 Roll 39 cm x 50 m

44085002 Roll 50 cm x 50 m

44085003 Roll 55 cm x 50 m

44085004 Roll 59 cm x 50 m



Wire baskets, square

Stainless steel

41075012 Dimensions approx. 12 x 12 x 12 cm

41075014 Dimensions approx. 14 x 14 x 14 cm

41075016 Dimensions approx. 16 x 16 x 16 cm

41075020 Dimensions approx. 20 x 20 x 20 cm



Applicators for cotton, beech wood, unpointed

Round, in bundles of 100 pieces, without cotton

	Length	Ø
44300015	approx. 15 cm	approx. 3 mm
44300020	approx. 20 cm	approx. 3 mm
44300025	approx. 25 cm	approx. 3 mm
44300030	approx. 30 cm	approx. 3 mm

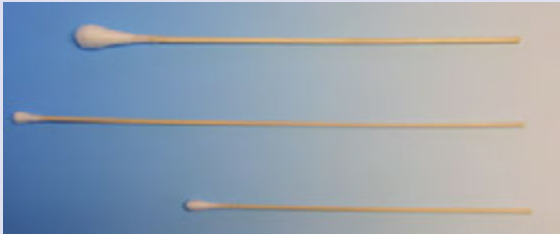




Applicators for cotton, beech wood, one end pointed

Round, in bundles of 100 pieces, without cotton

	Length	Ø
44301015	approx. 15 cm	approx. 3 mm
44301020	approx. 20 cm	approx. 3 mm
44301030	approx. 30 cm	approx. 3 mm
44301035	approx. 35 cm	approx. 3 mm



Cotton sticks with one cotton end

100 pieces/pack

44302010 Length approx. 15 cm

44302020 Length approx. 20 cm

44302030 Length approx. 23 cm

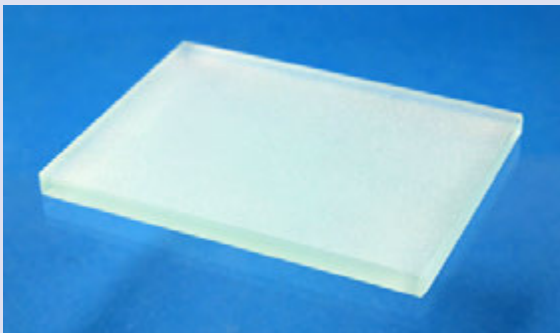


Cotton sticks with one large cotton end

50 pieces/pack, cotton end approx. 10 mm Ø

44303010 Length approx. 20 cm

44303015 Length approx. 15 cm



Glass plates (Cementum plates)

made of glass, for dentists, both surfaces frosted (also available with plain surfaces or one frosted surface), ground edges, 10 pieces/box

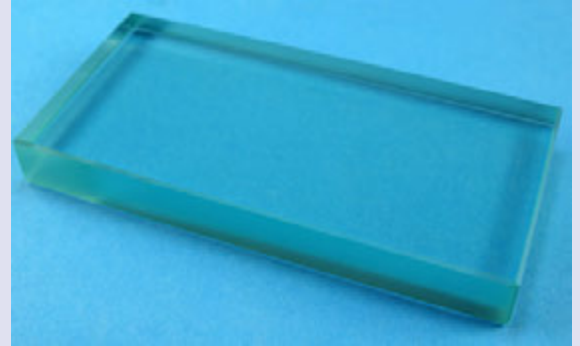
44355010 Dimensions approx. 95 x 70 x 6 mm

Cementum blocks made of glass

All surfaces ground and polished, for dentists, each in a box

	Thickness	Dimensions
44356010*	18-20 mm	approx. 150 x 75 mm

*Not available!



Dappen glasses

10 edges

41041004	green
41041008	crystal
41041012	rose
41041016	amber



Tongue depressors made of Plexiglas®, CE

Bent

44362010	Length approx. 20 cm
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Wooden tongue depressors, CE

Disposable, splinterproof, length approx. 15 cm, in boxes of 5000 pieces

44365010	in polybags of 100 pieces
44365020	in small boxes of 100 pieces





Face shields

Areas of use:

Orthopaedics
 General surgeries
 Plastic surgery
 Brain surgery
 Urology
 Ambulance service
 Dentistry
 Laboratories

49075010 made of polycarbonate, autoclavable



Kinesiology tape, NASARA®

consists of flexible cotton material, which can be stretched lengthwise by approx. 155-160 %. The tape, with the thermoplastic acrylic glue at the emplast side, perfectly adjusts to the ambient temperature by stretching or contracting.

The tape is characterised by outstanding adhesive features, high wearing comfort and very good skin tolerance. It is permeable to air and can be easily removed from the skin after the therapy.

Dimensions: 5 m long x 5 cm wide

- 42884004** beige
- 42884008** blue
- 42884012** yellow
- 42884016** green
- 42884020** violet
- 42884024** orange
- 42884028** pink
- 42884032** red
- 42884036** black
- 42884040** white



Tape scissors

Stainless, with titanium coating, hardened blade

	Total length	Blade length
42884110	approx. 20 cm	approx. 8.5 cm

Massage balls with spiky sensory points

made of flexible PVC, free of cadmium

	Ø	Colour
42882008	approx. 5.5 cm	orange
42882016	approx. 7 cm	green
42882024	approx. 8 cm	yellow
42882032	approx. 9 cm	red
42882040	approx. 10 cm	blue



Massage balls with spiky sensory points, transparent blue

made of flexible PVC, free of cadmium

42883006 Diameter approx. 6 cm



Cupping Glasses

Suction glasses according to Bier, CE, with bulb made of flexible PVC, free of cadmium

with tube olive at top

	Ø	Height without bulb
42885003	approx. 3 cm	approx. 50 mm
42885004	approx. 4 cm	approx. 60 mm
42885005	approx. 5 cm	approx. 70 mm
42885006	approx. 6 cm	approx. 80 mm





CE, without bulb

with tube olive at top

	Ø	Total height
42886003	approx. 3 cm	approx. 50 mm
42886004	approx. 4 cm	approx. 60 mm
42886005	approx. 5 cm	approx. 70 mm
42886006	approx. 6 cm	approx. 80 mm



Massage cupping glasses without olive, without bulb, CE

	Height	Ø
42887010	approx. 11 cm	approx. 5 cm
42887020	approx. 9 cm	approx. 3 cm



with olive, without bulb, CE

	Height	Ø
42888010	approx. 11 cm	approx. 5 cm
42888020	approx. 9 cm	approx. 3 cm



with olive and bulb, CE

Bulb made of flexible PVC, free of cadmium

	Ø	Height without bulb
42889001	approx. 3 cm	approx. 9 cm
42889010	approx. 5 cm	approx. 11 cm

Glass rods for cupping glasses

One end fused, one end conical
for removing cupping glass from skin

42894010 Dimensions approx. 140 x 7 mm



Cupping glasses, CE, without olive

made of glass

	Ø	Height
42890004	approx. 4 cm	approx. 5.5 cm
42890005	approx. 5 cm	approx. 6 cm



Cupping glasses, mouth-blown, CE, without olive, without bulb

Borosilicate glass 3.3

42891001 Diameter approx. 2.5 cm

42891002 Diameter approx. 3.5 cm

42891003 Diameter approx. 4.4 cm

42891004 Diameter approx. 5.0 cm

42891005 Diameter approx. 6.5 cm



with olive, without bulb, CE

Borosilicate glass 3.3

	Ø	Olive Ø
42892001	approx. 2.5 cm	approx. 9 mm
42892002	approx. 3.5 cm	approx. 9 mm
42892003	approx. 4.4 cm	approx. 10 mm
42892004	approx. 5.0 cm	approx. 10 mm
42892005	approx. 6.5 cm	approx. 10 mm

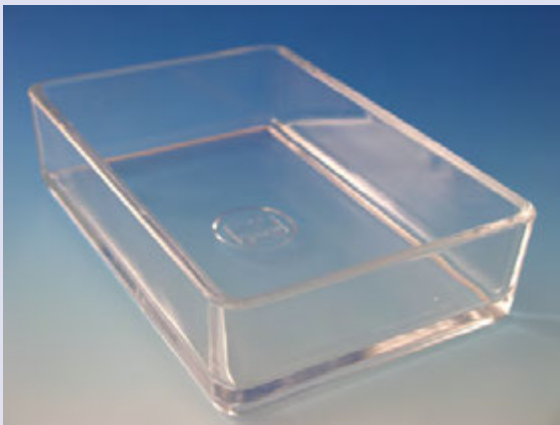




with olive and bulb, CE

Borosilicate glass 3.3, bulb made of flexible PVC, free of cadmium

	Ø	Bulb dimension
42893001	approx. 2.5 cm	approx. 56 x 51 mm
42893002	approx. 3.5 cm	approx. 56 x 51 mm
42893003	approx. 4.4 cm	approx. 61 x 56 mm
42893004	approx. 5.0 cm	approx. 61 x 56 mm
42893005	approx. 6.5 cm	approx. 61 x 56 mm

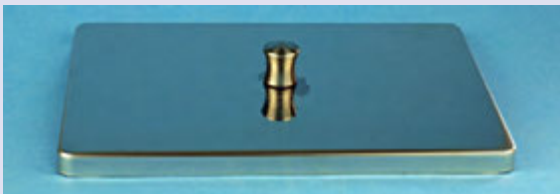


Instrument Trays

made of glass, without cover

Sterilisable in hot air up to +180 °C/+356 °F

42900001	Dimensions approx. 12 x 6 x 4 cm
42900002	Dimensions approx. 17 x 9 x 4.5 cm
42900003	Dimensions approx. 20 x 10 x 5 cm
42900004	Dimensions approx. 22 x 15 x 5.5 cm
42900005	Dimensions approx. 27.5 x 15 x 6 cm
42900007	Dimensions approx. 35 x 22 x 7 cm
42900010	Dimensions approx. 20 x 10 x 10 cm



Stainless steel covers

with knob, for above glass trays, sterilisable in hot air up to +180 °C/+356 °F

42905001	Dimensions approx. 12 x 6 cm
42905002	Dimensions approx. 17 x 9 cm
42905003	Dimensions approx. 20 x 10 cm
42905004	Dimensions approx. 22 x 15 cm
42905005	Dimensions approx. 27.5 x 15 cm
42905007	Dimensions approx. 35 x 22 cm
42905010	Dimensions approx. 20 x 10 cm



Stainless steel covers with knob, with foam pad and weight (glass plate)

Sterilisable in hot air up to +180 °C/+356 °F

42906001	Dimensions approx. 12 x 6 cm
42906002	Dimensions approx. 17 x 9 cm
42906003	Dimensions approx. 20 x 10 cm
42906004	Dimensions approx. 22 x 15 cm
42906005	Dimensions approx. 27.5 x 15 cm
42906007	Dimensions approx. 35 x 22 cm
42906010	Dimensions approx. 20 x 10 cm

Instrument trays made of glass with stainless steel cover

Sterilisable in hot air up to +180 °C/+356 °F

- 42910001** Dimensions approx. 12 x 6 x 4 cm
- 42910002** Dimensions approx. 17 x 9 x 4.5 cm
- 42910003** Dimensions approx. 20 x 10 x 5 cm
- 42910004** Dimensions approx. 22 x 15 x 5.5 cm
- 42910005** Dimensions approx. 27.5 x 15 x 6 cm
- 42910007** Dimensions approx. 35 x 22 x 7 cm
- 42910010** Dimensions approx. 20 x 10 x 10 cm



made of glass with stainless steel cover

Cover with knob, foam pad and weight (glass plate), sterilisable in hot air up to +180 °C/+356 °F

- 42911001** Dimensions approx. 12 x 6 x 4 cm
- 42911002** Dimensions approx. 17 x 9 x 4.5 cm
- 42911003** Dimensions approx. 20 x 10 x 5 cm
- 42911004** Dimensions approx. 22 x 15 x 5.5 cm
- 42911005** Dimensions approx. 27.5 x 15 x 6 cm
- 42911007** Dimensions approx. 35 x 22 x 7 cm
- 42911010** Dimensions approx. 20 x 10 x 10 cm



made of stainless steel with stainless steel cover

Sterilisable in hot air up to +180 °C/+356 °F

- 42915002** Dimensions approx. 16 x 10 x 3 cm
- 42915003** Dimensions approx. 20 x 10 x 5 cm
- 42915004** Dimensions approx. 22 x 15 x 5.5 cm
- 42915005** Dimensions approx. 26 x 15 x 5 cm
- 42915006** Dimensions approx. 30 x 20 x 5 cm



Jars made of Glass and Stainless Steel



Glass jars

for dressing material, cotton, clinical thermometers, forceps and other instruments, with base, without cover

Dimensions:

44405006	approx. 10 x 2.5 mm Ø
44405012	approx. 10 x 5 cm Ø
44405018	approx. 8 x 8 cm Ø
44405024	approx. 10 x 10 cm Ø
44405030	approx. 12 x 12 cm Ø
44405036	approx. 15 x 15 cm Ø
44405042	approx. 18 x 18 cm Ø
44405048	approx. 21 x 21 cm Ø
44405054	approx. 12 x 8 cm Ø
44405060	approx. 20 x 8 cm Ø
44405066	approx. 15 x 10 cm Ø
44405072	approx. 20 x 10 cm Ø
44405078	approx. 30 x 10 cm Ø



Glass covers

with knob, for jars no. 44405...

44409018	for 8 cm Ø
44409024	for 10 cm Ø
44409030	for 12 cm Ø
44409036	for 15 cm Ø
44409042	for 18 cm Ø



Glass jars

Drop-on cover with knob

Dimensions:

44410018	approx. 8 x 8 cm Ø
44410024	approx. 10 x 10 cm Ø
44410030	approx. 12 x 12 cm Ø
44410036	approx. 15 x 15 cm Ø
44410042	approx. 18 x 18 cm Ø
44410054	approx. 12 x 8 cm Ø
44410060	approx. 20 x 8 cm Ø
44410066	approx. 15 x 10 cm Ø
44410072	approx. 20 x 10 cm Ø

Glass jars with covers made of stainless steel

Cover with knob

- 44415018** Dimensions approx. 8 x 8 cm Ø
- 44415024** Dimensions approx. 10 x 10 cm Ø
- 44415030** Dimensions approx. 12 x 12 cm Ø
- 44415036** Dimensions approx. 15 x 15 cm Ø
- 44415054** Dimensions approx. 12 x 8 cm Ø
- 44415060** Dimensions approx. 20 x 8 cm Ø
- 44415066** Dimensions approx. 15 x 10 cm Ø
- 44415072** Dimensions approx. 20 x 10 cm Ø



Covers made of stainless steel

with knob, for jars no. 44405...

- 44411018** Diameter approx. 8 cm
- 44411024** Diameter approx. 10 cm
- 44411030** Diameter approx. 12 cm
- 44411036** Diameter approx. 15 cm



Glass jars with cover made of stainless steel with weight

Cover with foam pad and weight (glass plate)

- 44416018** Dimensions approx. 8 x 8 cm Ø
- 44416024** Dimensions approx. 10 x 10 cm Ø
- 44416030** Dimensions approx. 12 x 12 cm Ø
- 44416036** Dimensions approx. 15 x 15 cm Ø
- 44416054** Dimensions approx. 12 x 8 cm Ø
- 44416060** Dimensions approx. 20 x 8 cm Ø
- 44416066** Dimensions approx. 15 x 10 cm Ø
- 44416072** Dimensions approx. 20 x 10 cm Ø



Cotton dispenser (Delivery without cotton)

Sterilisable, consisting of glass jar with cover made of stainless steel

- 44295010** Glass jar approx. 10 x 10 cm Ø





Boxes made of glass

Low form with notch, overlapping cover

	Height	Outside Ø
41050004	approx. 25 mm	approx. 40 mm
41050005	approx. 30 mm	approx. 50 mm
41050006	approx. 35 mm	approx. 60 mm
41050008	approx. 40 mm	approx. 80 mm
41050010	approx. 50 mm	approx. 100 mm
41050012	approx. 60 mm	approx. 120 mm
41050015	approx. 75 mm	approx. 150 mm



Glass jars for dressing forceps

including stainless steel cover with aperture

	Height	Outside Ø
41965012	approx. 12 cm	approx. 8 cm
41965020	approx. 20 cm	approx. 8 cm

Spare stainless steel cover

41965001 for jars of approx. 8 cm Ø



Jars for clinical thermometers

made of stainless steel

with base, without cover

44440007	Dimensions approx. 9 x 3 cm Ø
44440014	Dimensions approx. 10 x 5 cm Ø
44440021	Dimensions approx. 13 x 5 cm Ø
44440028	Dimensions approx. 17.5 x 5 cm Ø
44440035	Dimensions approx. 13 x 8.5 cm Ø

Jars made of stainless steel

with knob cover

44420018 Dimensions approx. 8.5 x 8.5 cm Ø

44420024 Dimensions approx. 10 x 10 cm Ø

44420030 Dimensions approx. 12 x 12 cm Ø

44420036 Dimensions approx. 15 x 15 cm Ø



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41024	290	41202	60	41333	150	41865	290
41025	75	41203	61	41334	150	41866	291
41026	208	41205	61	41335	151	41870	163
41029	208	41210	61	41336	151	41875	186
41033	209	41218	57	41340	151	41877	187
41036	209	41220	57	41341	152	41910	201
41037	209	41221	57	41342	152	41911	205
41041	293	41223	57	41343	152	41912	206
41042	75	41224	58	41344	152	41913	182, 205
41043	76	41225	58	41345	153	41914	206
41044	76	41226	58	41350	278	41915	203
41045	76	41227	58	41370	23	41916	142
41049	76	41230	62	41375	24	41917	142
41050	302	41231	62	41384	222	41918	203
41065	225	41232	62	41385	221	41920	204
41066	225	41234	62	41390	221	41921	204
41067	225	41238	73	41391	222	41924	204
41071	226	41240	73	41393	222	41925	205
41075	291	41250	190	41395	222 - 223	41929	164
41090	224	41255	190	41396	223	41930	164 - 165
41091	225	41260	191	41400	193	41934	165
41101	280	41265	191	41401	193	41935	165
41102	280	41266	191	41402	193	41936	166
41103	280	41270	192	41406	255	41940	166
41104	281	41271	192	41408	194	41941	167
41105	281	41272	192	41469	210	41943	167
41111	281	41273	192 - 193	41470	210	41945	168
41112	281	41278	153	41480	109	41946	168
41120	282	41279	153	41503	108	41947	168
41130	282	41280	153	41504	108	41954	197
41145	22	41281	154	41510	108	41955	198
41150	181	41282	154	41511	108	41956	74
41151	181	41283	154	41522	108	41965	302
41153	181	41284	154	41523	108	41969	145
41154	182	41285	155	41550	106	41974	256
41155	182	41286	155	41551	106	41975	257
41160	187	41287	155	41552	107	41977	256 - 257
41161	187	41301	156	41553	107	41978	258
41162	188	41303	156	41554	107	41979	258
41163	188	41311	156	41555	107	41980	258
41175	188	41313	156	41580	226	41981	183
41177	188	41314	157	41581	226	41982	183
41178	189	41315	157	41582	227	41987	183
41181	76	41316	157	41583	227	41990	183 - 184
41182	77	41318	157	41586	229	41996	184
41185	58	41319	158	41590	228	41998	184



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42002	237	42325	285	42541	132	42776	172
42005	189	42330	288	42548	132	42777	172
42006	189	42331	288	42550	135	42779	173
42007	189	42382	206	42556	136	42780	173
42008	189	42383	206	42557	137	42782	173
42009	190	42384	207	42560	136	42783	174
42011	198	42386	207	42569	132	42784	175
42020	77	42387	207	42570	128	42785	175
42021	78	42388	208	42571	128	42787	173
42065	201	42395	74	42572	129	42788	174
42066	201	42400	71 - 72	42574	129	42789	245
42067	244	42401	72	42575	230	42793	174
42068	242 - 243	42404	72	42576	230	42794	232
42069	246	42406	72 - 73	42577	230	42795	232
42070	246 - 247	42407	73	42578	231	42796	232
42071	247 - 248	42408	70	42580	231	42797	233
42072	248 - 249	42409	70 - 71	42581	231	42798	233
42073	249	42410	67	42583	133	42800	233
42075	249	42411	67	42585	133	42801	234
42076	250	42412	67	42586	133	42802	234
42077	250	42415	67	42588	255	42803	234
42078	250	42417	67	42589	255	42807	235
42079	251	42418	67	42590	133	42808	235
42081	251	42419	68	42593	134	42809	235
42085	266	42420	56	42600	65	42810	175
42089	112	42421	56	42601	65	42811	175
42094	113	42422	56	42608	66	42813	235
42096	114	42423	56	42609	66	42814	236
42097	115	42424	57	42610	66	42815	236
42102	115	42426	56	42611	66	42818	236
42109	116	42427	68	42620	65	42822	236
42110	116	42430	68	42660	146	42830	219
42111	169	42432	68	42661	147	42833	219
42115	117	42440	74	42698	51	42835	220
42170	118	42450	63	42700	51	42840	220
42172	119	42460	63	42701	51 - 52	42843	220
42180	119	42461	63	42702	52	42845	220
42182	120	42470	64	42703	52	42847	220
42190	120	42480	64	42704	52	42850	221
42194	124	42481	64 - 65	42705	53	42856	185
42195	125	42482	65	42712	68	42860	186
42196	125	42510	202	42750	229	42871	285
42200	121	42511	202	42755	229	42872	285
42205	122	42512	203	42757	198	42880	288
42206	123	42515	195	42760	174	42881	288
42208	126	42516	195	42763	169	42882	295
42210	123	42517	195	42765	169	42883	295
42211	123	42518	196	42766	170	42884	294
42220	124	42519	196	42767	170	42885	295
42255	127	42520	196	42768	170	42886	296
42260	127	42521	196	42769	170	42887	296
42281	126	42525	130	42770	171	42888	296
42283	126	42539	131	42771	171	42889	296

42890	297	43510	263	44268	211	46210	275
42891	297	43513	264	44272	212	46211	275
42892	297	43595	264	44274	212	46223	276
42893	298	43599	264	44275	212	46224	277
42894	297	43600	264	44276	212	46227	278
42896	289	43605	265	44277	213	46228	277
42900	298	43623	265	44278	270	46230	277
42905	298	43646	265	44279	213	46236	276
42906	298	43647	265	44280	213	46250	276
42910	299	43653	268	44283	213	46252	276
42911	299	43655	269	44284	214	46265	277
42915	299	43656	269	44285	214	46266	277
42950	215	43657	269	44286	214	46269	276
42951	215	43690	262	44287	214	47000	240
42956	215	43698	262	44288	214	47002	240
42970	216	43700	262	44289	215	47005	240
42971	216	43711	263	44295	301	47015	240
42985	216	43720	263	44300	291	47020	241
42986	217	43990	217	44301	292	47028	194
42990	199	43991	217	44302	292	47029	194
42992	199	44000	218	44303	292	47030	241
43004	200	44001	218	44355	292	47031	241
43005	200	44002	218	44356	293	47032	194
43006	200	44010	281	44362	293	47033	195
43010	200	44011	282	44365	293	47035	241
43017	289	44020	282	44400	121	47040	241
43030	223	44075	254	44401	122	47041	242
43031	224	44080	254	44405	300	48400	138
43033	224	44085	291	44409	300	48410	139
43091	186	44090	283	44410	300	48415	140
43092	186	44092	283	44411	301	48416	140
43112	282	44093	284	44415	301	48452	141
43150	283	44104	284	44416	301	48462	141
43155	283	44106	284	44420	303	49025	238
43170	35	44108	284	44440	302	49027	238
43178	36	44115	239	44508	239	49028	238
43180	35	44116	162	46022	273	49040	49
43187	36	44122	34	46040	273	49050	219
43188	36	44125	34	46041	273	49051	219
43194	36	44131	237	46105	273	49064	237
43200	260	44160	184	46106	273	49070	238
43201	260	44161	185	46120	277	49075	294
43205	260	44171	185	46123	277	49100	158
43206	261	44173	185	46165	274	49101	158
43208	261	44174	185	46175	275	49102	159
43210	261	44200	278	46176	275	49103	159
43225	261	44240	197	46178	275	49105	159
43232	266	44245	197	46181	276	49108	159
43235	267	44248	197	46186	278	49112	160
43238	267	44250	145	46187	278	49115	160
43240	268	44251	146	46197	275	49116	160
43252	254	44263	37	46199	276	49117	162
43310	262	44265	211	46205	275	49118	162
43315	262	44267	211	46206	275	49119	161



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