

***Assistent-Precision***



***Catalogue 33***



# LEGAL NOTICE



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## PRECISION-GLASS INSTRUMENTS AND DEVICES FOR DOCTOR AND LABORATORY

Glaswarenfabrik Karl Hecht	4
Quality management	5
Plastics resistance charts	7
Technical information	9
Blood test and urinalysis	11
Microscopy and staining	51
Liquid handling	80
Volumetric instruments and accessories	96
Laboratory equipment	144
Thermometers	260
Hydrometers	272
Hospital equipment	280
Index	304



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



# PLASTICS RESISTANCE CHARTS

	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 $\alpha$ (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

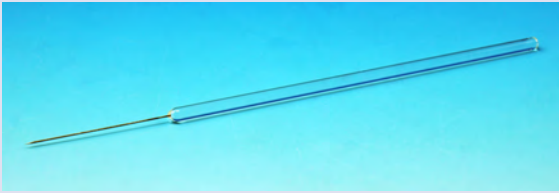
	Wire thickness	Loop diameter	Total length
40036010	approx. 0.5 mm	approx. 3-4 mm	approx. 200 mm



### 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
<b>40038010</b>	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
<b>40365011</b>	18G blade	approx. 1.8 mm	green
<b>40365012</b>	28G needle	approx. 1.8 mm	violet
<b>40365013</b>	26G needle	approx. 1.8 mm	yellow
<b>40365014</b>	26G needle	approx. 2.4 mm	blue
<b>40365015</b>	21G needle	approx. 1.8 mm	orange
<b>40365016</b>	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 an 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
<b>40359001</b>	1:100, 1:200, 1:300, 1:400, 1:500	1:101	Standard type	red
<b>40359002</b>	1:10, 1:20, 1:30, 1:40, 1:50	1:11	Standard type	white
<b>40359701</b>	1:100, 1:200, 1:300, 1:400, 1:500	1:101	CE type	red
<b>40359702</b>	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

	<b>40545718</b>	<b>40545724</b>	<b>40545730</b>	<b>40545736</b>	<b>40545760</b>
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

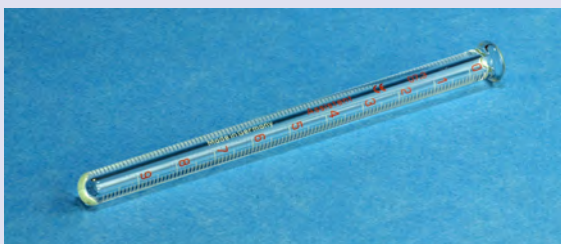
	Diameter	Length
40514020	approx. 12 mm	approx. 55 mm



### 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

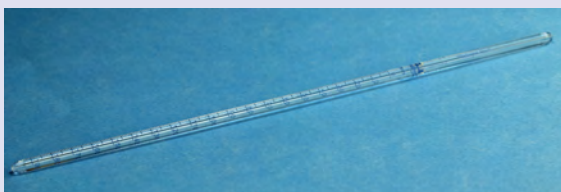
DIN EN ISO 13079, clear glass, fused blue graduation "ASSISTENT-PERMANENT", macro method, division 0-200 mm : 1 mm

Packing: 10 pieces/box

Amber graduation is also available.

**40380010** Length 300 mm

**40380015** Length 305 mm



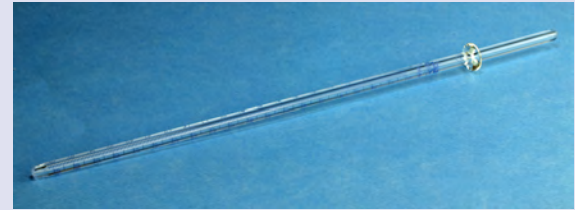
### Blood sedimentation pipettes, micro, CE

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

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

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

	<b>40385010</b>
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

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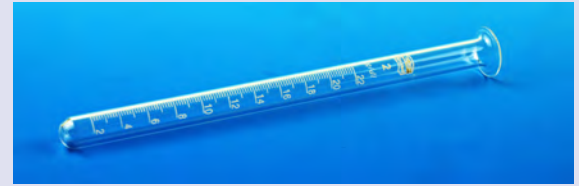
**40456010** for export outside EU only



### Hemometer measuring tubes with gram scale

g/dl = grams of hemoglobin in 100 ml blood

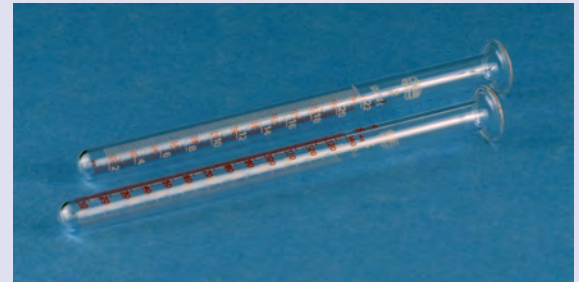
**40457010** Length approx. 120 mm



### Hemometer measuring tubes with double scale

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

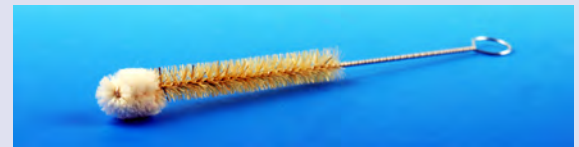
**40457002** 16 g/dl = 100 HE



### 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

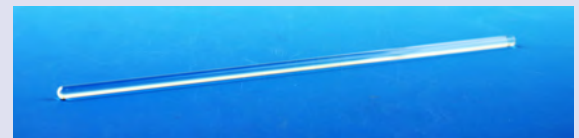
**40459010** Hemometer stand



### Hemometer stirring rods

Clear glass

**40470010** Dimensions approx. 140 x 3 mm Ø



### Hemometer dropping pipettes

Clear glass

	Wall thickness	Dimensions
<b>40471010</b>	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
<b>40460710</b>	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
<b>40460010</b>	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
<b>40551003</b>	1 $\mu\text{l}$	$\leq 1.5\%$
<b>40551006</b>	2 $\mu\text{l}$	$\leq 1\%$
<b>40551012</b>	5 $\mu\text{l}$	$\leq 1\%$
<b>40551015</b>	10 $\mu\text{l}$	$\leq 1\%$
<b>40551018</b>	20 $\mu\text{l}$	$\leq 1\%$
<b>40551021</b>	25 $\mu\text{l}$	$\leq 1\%$
<b>40551024</b>	50 $\mu\text{l}$	$\leq 1\%$
<b>40551027</b>	100 $\mu\text{l}$	$\leq 2\%$

**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  $\mu\text{l}$

**40554050** Capacity 50  $\mu\text{l}$



## Micropipettes with ring mark

### Disposable, CE

Calibrated to contain = In, conformity certified

Packing: 250 pieces/pack - 4 packs/carton

(except 200  $\mu\text{l}$ : 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
<b>40555003</b>	1-2-3-4-5 $\mu\text{l}$	white	$\leq 0.6\%$	$\leq \pm 0.3\%$
<b>40555006</b>	10 $\mu\text{l}$	orange	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555009</b>	20 $\mu\text{l}$	black	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555012</b>	20 + 40 $\mu\text{l}$	2 x red	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555015</b>	25 $\mu\text{l}$	2 x white	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555018</b>	40 $\mu\text{l}$	2 x red	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555021</b>	50 $\mu\text{l}$	green	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555024</b>	50 + 100 $\mu\text{l}$	blue	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555027</b>	100 $\mu\text{l}$	blue	$\leq 0.5\%$	$\leq \pm 0.25\%$
<b>40555030</b>	200 $\mu\text{l}$	red	$\leq 0.5\%$	$\leq \pm 0.25\%$

**40555003** Mark at 5  $\mu\text{l}$  is conformity certified

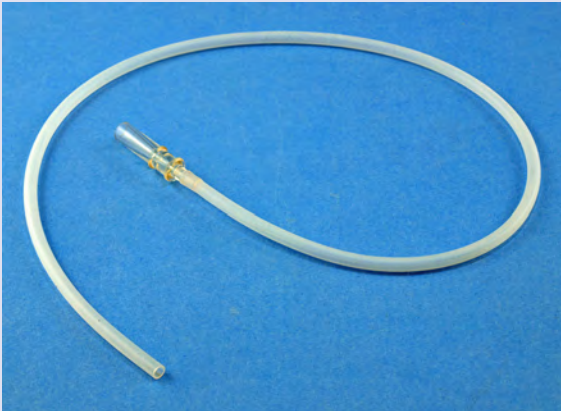
## Pipetting aids

### 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
<b>40563010</b>	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
<b>40564010</b>	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
<b>40565010</b>	0.55 mm ± 0.05 mm	1.55 mm ± 0.05 mm	75 mm ± 0.5 mm



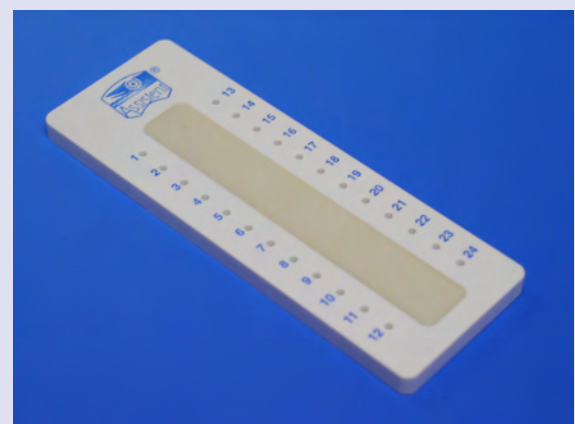
### Hematocrit sealing material

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
<b>40345010</b>	8	AC-8
<b>40345012</b>	12	AC-12
<b>40345015</b>	15	AC-15
<b>40345612</b>	12	AC-12 with rechargeable battery
<b>40345615</b>	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
<b>40567001</b>	approx. 150 mm	short form
<b>40567002</b>	approx. 230 mm	long form
<b>40567091</b>	approx. 150 mm	short form, with cotton plug
<b>40567092</b>	approx. 230 mm	long form, with cotton plug



## Pasteur pipettes made of glass

with attached, long tip

	Packing/box	Total length	Body
<b>40568010</b>	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

<b>40705010</b>	
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

<b>40706010</b>	
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  $10 \pm 0.1$  mm
- 40710020** Light path  $20 \pm 0.1$  mm
- 40710040** Light path  $40 \pm 0.2$  mm
- 40710050** Light path  $50 \pm 0.2$  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  $5 \pm 0.1$  mm
- 40712010** Light path  $10 \pm 0.1$  mm
- 40712020** Light path  $20 \pm 0.1$  mm
- 40712040** Light path  $40 \pm 0.2$  mm
- 40712050** Light path  $50 \pm 0.2$  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  $10 \pm 0.1$  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.

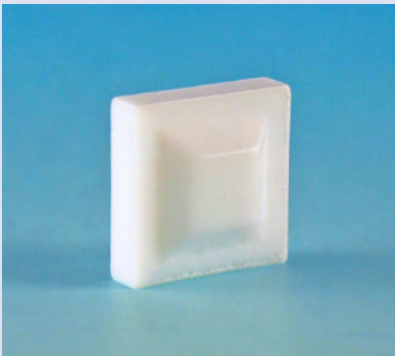
Light path indicated on each cuvette.

Light path  $10 \pm 0.01$  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
<b>40734010</b>	approx. 120 mm	approx. 9 mm



## Urinometers

### according to Vogel

#### without thermometer

1.000 - 1.060 g/cm<sup>3</sup>

Division 0.001 g/cm<sup>3</sup>, reference temperature +20 °C/+68 °F, length approx. 15 cm

with steel metal ballast

**40240010** for export outside EU only

**40240710** CE type, tolerance  $\pm 0.001$  g/cm<sup>3</sup>



### Urinometers according to Vogel with thermometer

1.000 - 1.060 g/cm<sup>3</sup>

Division 0.001 g/cm<sup>3</sup>, reference temperature +20 °C/+68 °F, length approx. 17 cm

with steel metal ballast

**40240720** CE type, tolerance  $\pm 0.001$  g/cm<sup>3</sup>



## 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/cm<sup>3</sup>

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/cm<sup>3</sup>, with steel metal ballast,  
Division 0.002 g/cm<sup>3</sup>, reference temperature +20 °C/+68 °F, length approx. 9 cm

**40245010** for export outside EU only

**40245710** CE type, tolerance  $\pm 0.002$  g/cm<sup>3</sup>



## 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/cm<sup>3</sup>, 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
<b>44122010</b>	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.



	<b>43180010</b>
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

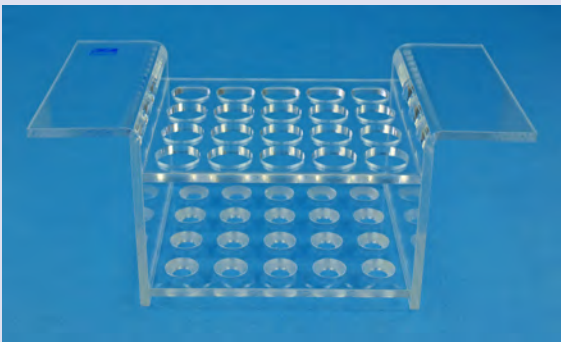
**43178010** for tubing of 6-11 mm inside Ø



### 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
<b>43188002</b>	16	16 small bottles	approx. 23 mm
<b>43188003</b>	20	20 centrifuge or test tubes	approx. 18 mm
<b>43188004</b>	24	24 reaction tubes	approx. 11 mm
<b>43188006</b>	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

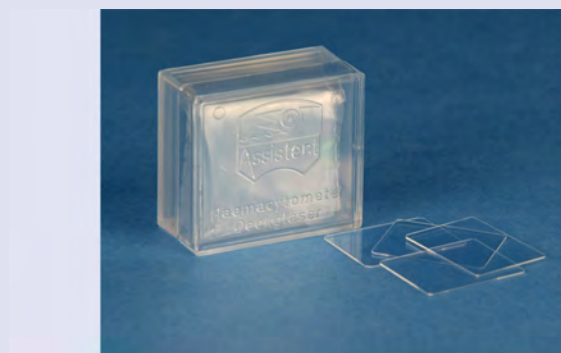
Packing: 10 pieces/box, thickness 0.4 mm

**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

Assistant® 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

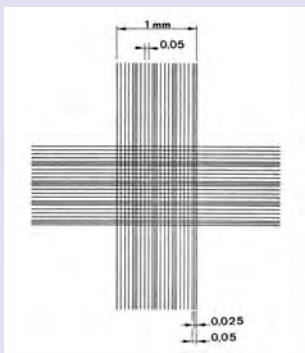
The central support is coated by a rhodium layer wherein the rulings are engraved. The coating provides a sharp contrast and the lines appear brightly illuminated.

### 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 mm<sup>2</sup>

consisting of

groups of 16 squares 0.2 x 0.2 mm - surface area 0.04 mm<sup>2</sup> (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 mm<sup>2</sup>

- 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

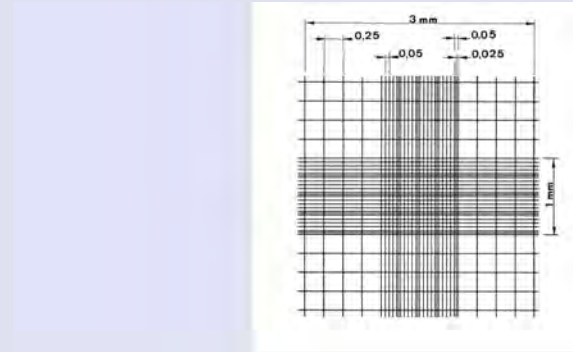
## Counting chambers Neubauer

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

### Ruling

9 large squares of 1 mm<sup>2</sup> each = 9.0 mm<sup>2</sup>.  
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

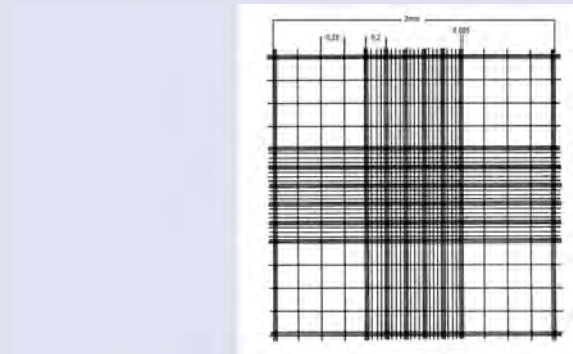
## Counting chambers improved Neubauer

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

### Ruling

9 large squares of 1 mm<sup>2</sup> = 9 mm<sup>2</sup>  
The central square of 1 mm<sup>2</sup> 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

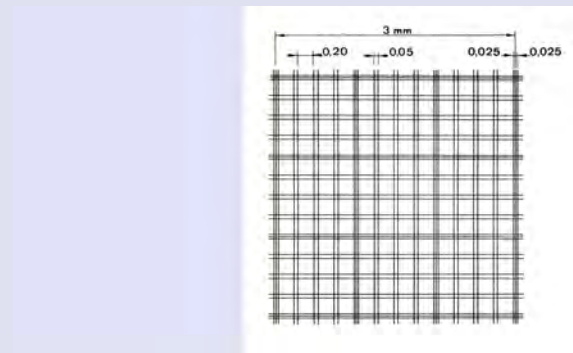
## Counting chambers Bürker

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

### Ruling

9 large squares - surface area 1 mm<sup>2</sup> each = 9 mm<sup>2</sup>  
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 mm<sup>2</sup> each.

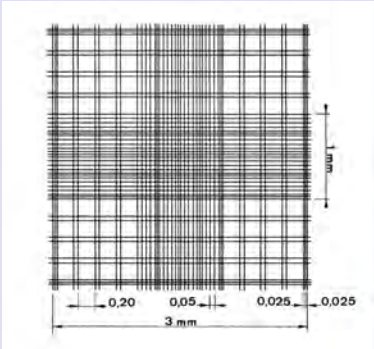
- 40443001** Single ruling, without clamps, without CE mark
- 40443002** Double ruling, without clamps, without CE mark
- 40443003** Double ruling, with clamps, without CE mark
- 40443013** Double ruling, bright-line, with clamps, without CE mark



## 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

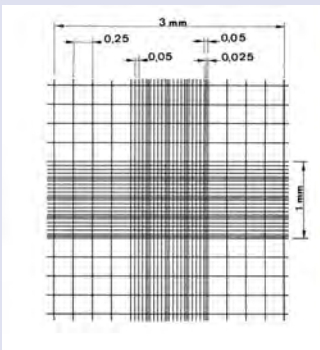
Ruling  
Total surface area: 9 mm<sup>2</sup>  
The overall size and the central square correspond to the Neubauer ruling.  
The groups of squares in the corners are divided by double lines.

- 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 mm<sup>2</sup> 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 mm<sup>2</sup> 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



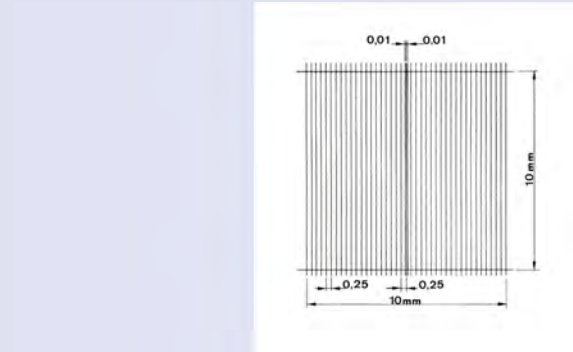
## Counting chambers Nageotte

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

### Ruling

Total area: 100 mm<sup>2</sup>  
divided into 40 rectangles of 10 x 0.25 mm each = 2.5 mm<sup>2</sup>  
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

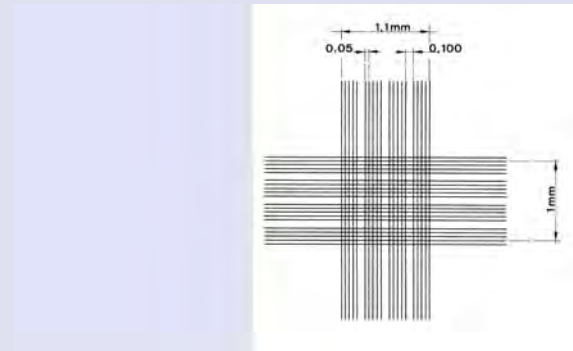
## Counting chambers Thoma new

for export outside EU only, chamber depth 0.1 mm

### Ruling

Total surface area: 1.21 mm<sup>2</sup>  
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

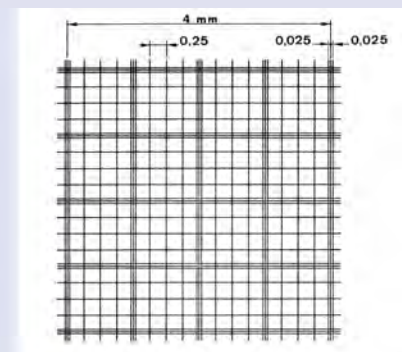
## Counting chambers Fuchs-Rosenthal

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

### Ruling

Total surface area: 16 mm<sup>2</sup>  
16 squares of 1 mm<sup>2</sup> each  
each consisting of 16 mini squares of 0.25 x 0.25 mm -  
surface area 0.0625 mm<sup>2</sup> each

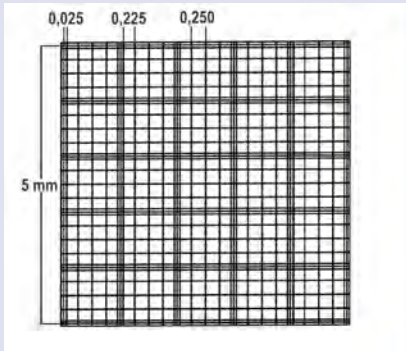
- 40449001** Single ruling, without clamps, without CE mark
- 40449002** Double ruling, without clamps, without CE mark
- 40449003** Double ruling, with clamps, without CE mark
- 40449012** Double ruling, bright-line, without clamps, without CE mark
- 40449013** Double ruling, bright-line, with clamps, 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 mm<sup>2</sup>, volume: 10 mm<sup>3</sup>  
25 groups of squares of 1 mm<sup>2</sup> each  
consisting of 16 small squares 0.25 x 0.25 mm -  
surface area 0.0625 mm<sup>2</sup> each

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

## Counting chambers Jessen

Chamber depth 0.4 mm, CE

- 40450702** Double ruling, without clamps

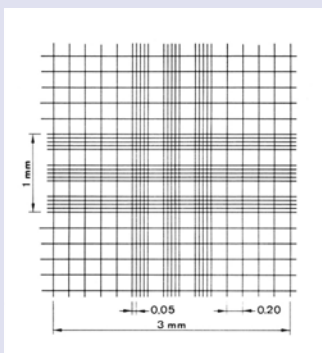
## Counting chambers Schilling-Kreuznetz (cross-shaped ruling)

for export outside EU only, chamber depth 0.1 mm

Ruling

Total surface area: 9.0 mm<sup>2</sup>  
Central square: 9 groups of squares with mini squares  
of 0.0025 mm<sup>2</sup> each  
The corner squares are divided into 25 small squares  
of 0.04 mm<sup>2</sup> 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 mm<sup>2</sup> (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 mm<sup>2</sup> each

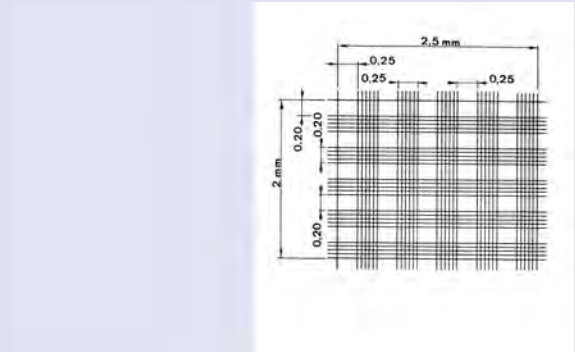
25 fields divided into 5 rectangles of 0.20 x 0.05 mm -  
surface area 0.01 mm<sup>2</sup> each

25 fields divided into 4 rectangles of 0.25 x 0.05 mm -  
surface area 0.0125 mm<sup>2</sup> each

25 fields of 0.20 x 0.25 mm - surface area 0.05 mm<sup>2</sup> 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

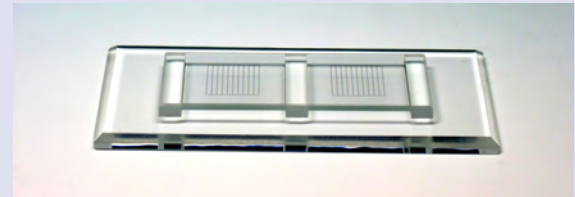
**40453702** Double ruling, without clamps

## 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
<b>40454010</b>	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.

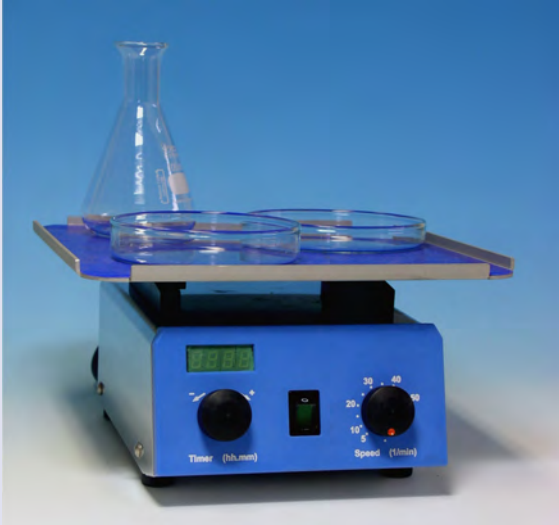
A provided, anti-slip mat holds small containers. Optionally available is a removable, washable plastic plate.

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

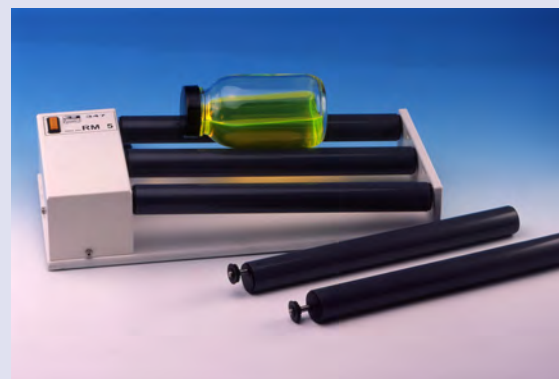
### with removable rolls, CE

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 a 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.

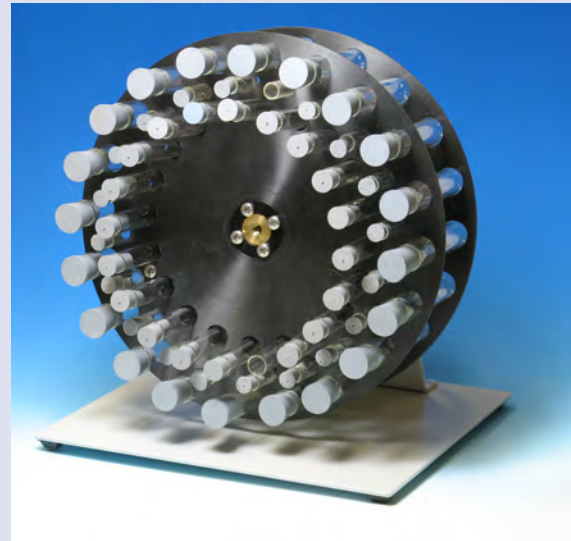
The sample bottles, inserted in the swash plate, are held in position by an elastic clamping device so that they cannot fall out during the process of mixing. The base frame is painted in an acid-proof manner. The swash plate is made of plastic which is, to the greatest extent, resistant to chemicals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

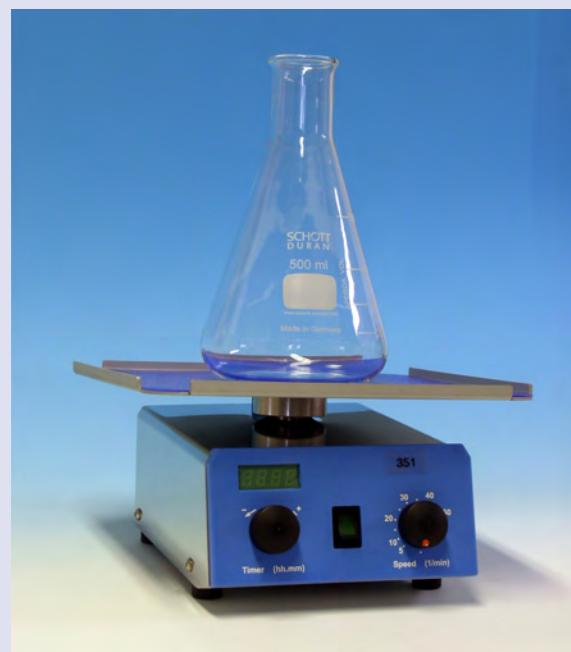
### 3D movement, CE

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
<b>40352010</b>	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





## 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

<b>42705002</b>	Blue
<b>42705003</b>	Red
<b>42705010</b>	White



## Cover Glasses for Microscopy

The cover glasses are manufactured from cover glass D 263® M, a colourless borosilicate glass, according to 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

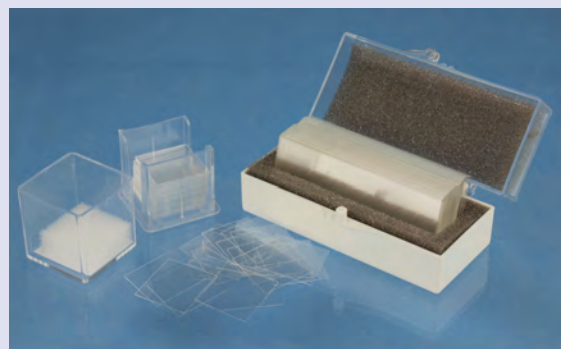
### Cover glasses for microscopy

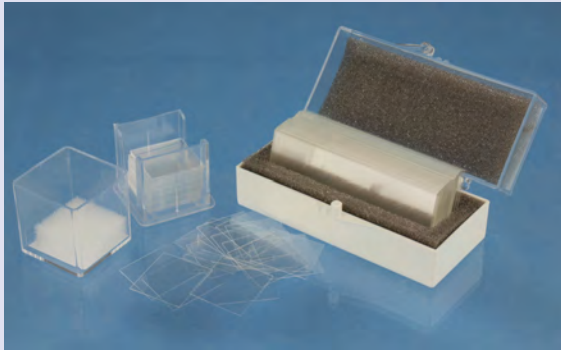
#### in boxes of 100 - special thickness, CE

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:

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

<b>41000103</b>	12 x 12 mm
<b>41000106</b>	15 x 15 mm
<b>41000109</b>	18 x 18 mm
<b>41000112</b>	20 x 20 mm
<b>41000115</b>	22 x 22 mm
<b>41000118</b>	24 x 18 mm
<b>41000121</b>	24 x 24 mm
<b>41000124</b>	26 x 21 mm
<b>41000127</b>	30 x 24 mm
<b>41000133</b>	32 x 24 mm
<b>41000136</b>	36 x 24 mm
<b>41000139</b>	40 x 22 mm
<b>41000142</b>	40 x 24 mm
<b>41000148</b>	46 x 24 mm
<b>41000151</b>	50 x 24 mm
<b>41000154</b>	50 x 25 mm
<b>41000163</b>	60 x 22 mm
<b>41000166</b>	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:
<b>41001103</b>	3 mm
<b>41001105</b>	5 mm
<b>41001108</b>	8 mm
<b>41001110</b>	10 mm
<b>41001112</b>	12 mm
<b>41001113</b>	13 mm
<b>41001114</b>	14 mm
<b>41001115</b>	15 mm
<b>41001117</b>	17 mm
<b>41001118</b>	18 mm
<b>41001120</b>	20 mm
<b>41001122</b>	22 mm
<b>41001124</b>	24 mm
<b>41001125</b>	25 mm
<b>41001130</b>	30 mm



## Selected thickness $0.17 \pm 0.01$ 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.

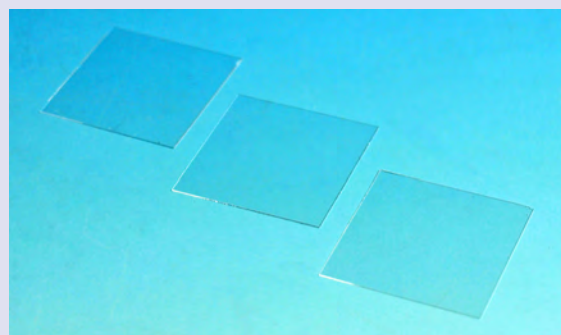
	Dimensions:
<b>41014509</b>	18 x 18 mm
<b>41014512</b>	20 x 20 mm
<b>41014515</b>	22 x 22 mm
<b>41014521</b>	24 x 24 mm
<b>41014524</b>	26 x 21 mm
<b>41014533</b>	32 x 24 mm
<b>41014542</b>	40 x 24 mm
<b>41014551</b>	50 x 24 mm



## Selected thickness $0.17 \pm 0.02$ 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:
<b>41015609</b>	18 x 18 mm
<b>41015612</b>	20 x 20 mm
<b>41015615</b>	22 x 22 mm
<b>41015621</b>	24 x 24 mm
<b>41015624</b>	26 x 21 mm
<b>41015633</b>	32 x 24 mm
<b>41015642</b>	40 x 24 mm
<b>41015651</b>	50 x 24 mm



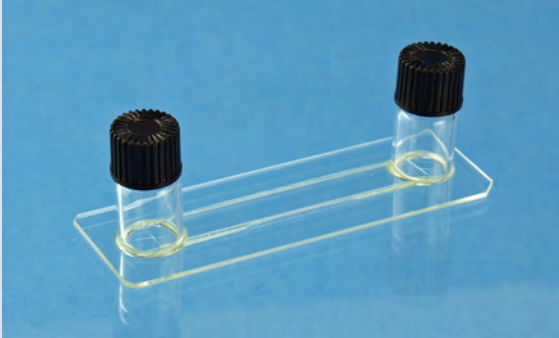
## Diagnostic Microscope Slides

### Micro Life microscope slides

#### Micro Life®

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

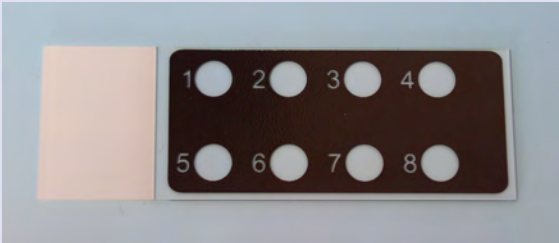
**42426010** The "living" microscope slide



### Immunofluorescent printed slides, CE

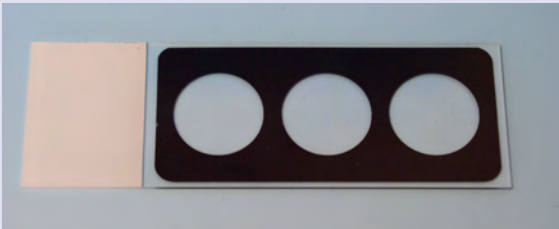
#### Black epoxy coating, 8 numbered circles of approx. 6 mm Ø

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



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

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



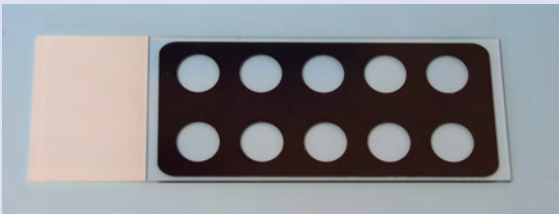
#### Black epoxy coating, 3 numbered circles of approx. 10 mm Ø

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



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

	Packing/box	Thickness	Dimensions
<b>42423010</b>	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
<b>42424010</b>	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
<b>41223010</b>	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

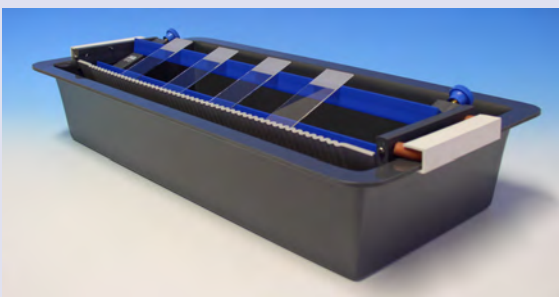
**41226010** Holes of approx. 40 x 20 mm



### made of hardwood

with 6 oval glass jars no. 41232010

	Dimensions	Holes
<b>41227010</b>	approx. 265 x 70 mm	approx. 40 x 20 mm



## Staining Accessories

### Staining bridge made of PVC with staining tray

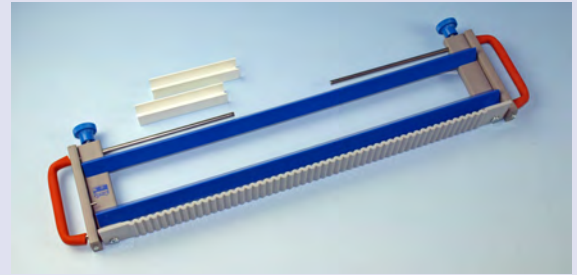
Large type, extensible, for dishes and basins of 38 cm to 62 cm, can be fixed at a slanted or horizontal position, complete with staining tray made of PVC and 2 clamps made of PVC

**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)

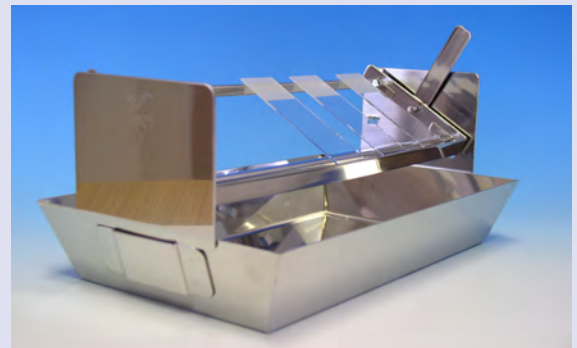
**41191010** for trays of approx. 22 x 15 cm



## 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



### 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
<b>41202014</b>	14 microscope slides	approx. 83 mm
<b>41202024</b>	24 microscope slides	approx. 96 mm
<b>41202042</b>	42 microscope slides	approx. 137 mm
<b>41202098</b>	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
<b>41203014</b>	14 microscope slides	approx. 100 mm	approx. 170 mm
<b>41203024</b>	24 microscope slides	approx. 120 mm	approx. 170 mm
<b>41203042</b>	42 microscope slides	approx. 160 mm	approx. 170 mm
<b>41203098</b>	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

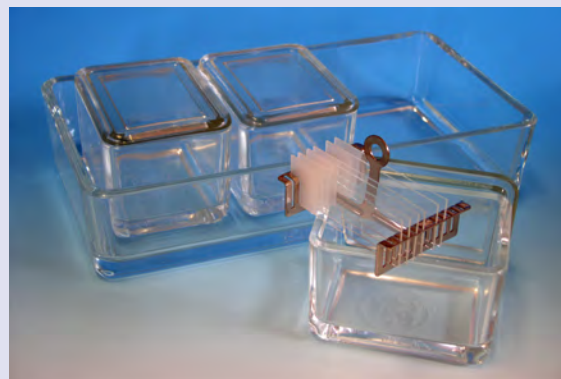


## Dye-bath set

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**

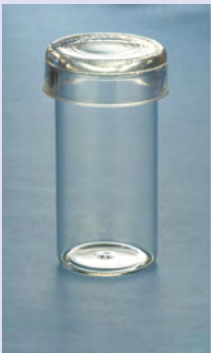
**Rectangular**

**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
<b>41234010</b>	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
<b>42470020</b>	+121 °C/+249.8 °F (2 bar)	+125 °C/+257 °F	approx. 94 mm



**Staining jars according to Coplin, SMG glass**

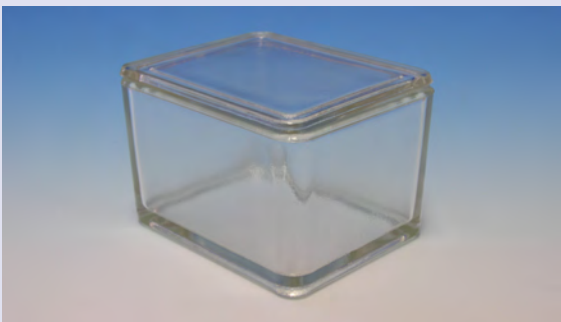
with cover, for 10 microscope slides of approx. 76 x 26 mm

**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

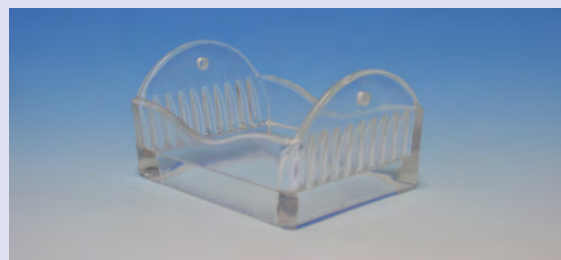
suitable for staining tray no. 42481010  
Dimensions approx. 105 x 85 x 80 mm

**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
<b>42620010</b>	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
<b>42410010</b>	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
<b>42411010</b>	50 pieces	approx. 1.5 mm	approx. 76 x 26 mm



#### with 3 cavities, CE

Clear glass, ground edges

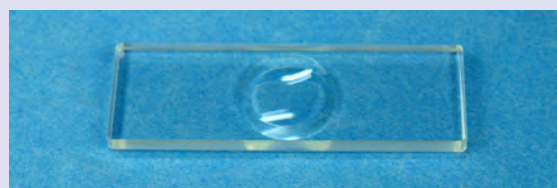
	Packing/box	Thickness	Dimensions
<b>42412010</b>	50 pieces	approx. 1.5 mm	approx. 76 x 26 mm



#### with 1 cavity of approx. 22 mm Ø, CE

Clear glass, ground edges

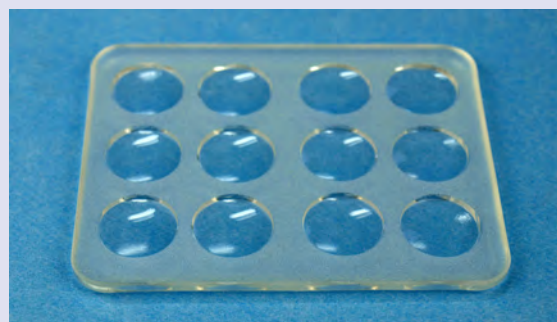
	Packing/box	Thickness	Cavity	Dimensions
<b>42415010</b>	20 pieces	3-4 mm	approx. 1.75 mm deep	approx. 76 x 26 mm

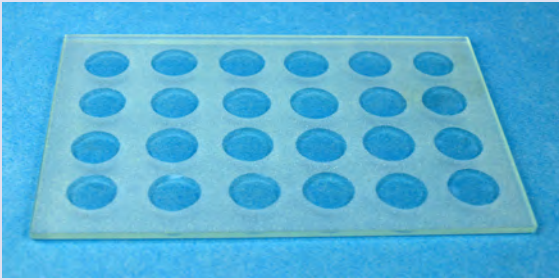


### Glass plates with 12 cavities

Frosted surface, individually packed

	Cavities	Dimensions
<b>42417010</b>	approx. 1.8 mm deep, approx. 16 mm Ø	approx. 76 x 60 x 5 mm

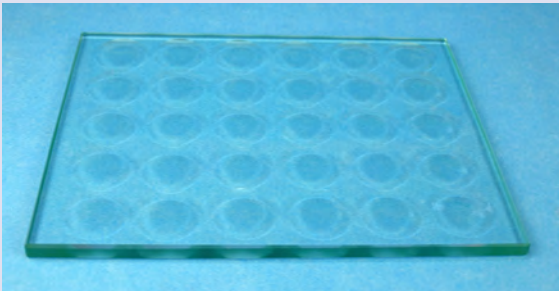




### Glass plates with 24 cavities

Frosted surface, individually packed

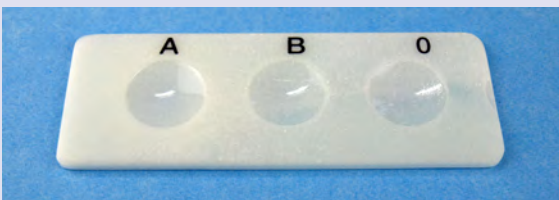
	Cavities	Dimensions
<b>42418010</b>	approx. 1.6 mm deep, approx. 16 mm Ø	approx. 140 x 85 x 3 mm



### Glass plates with 30 cavities

Blank surface, individually packed

	Dimensions	Cavities
<b>42419010</b>	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
<b>42430010</b>	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
<b>42432010</b>	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
<b>42427010</b>	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
<b>42712010</b>	approx. 100 mm	approx. 140 mm

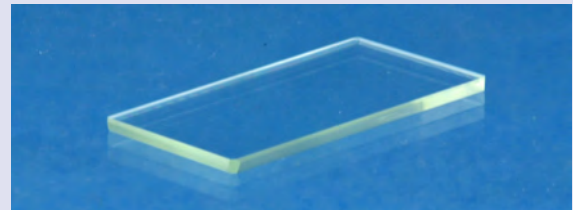


## Blood smear slides and glass spot plates

### Blood smear slides according to Undritz, CE

Clear glass, both sides polished, bevelled edges and corners

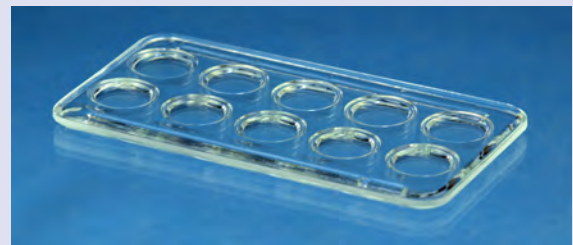
	Thickness	Dimensions
<b>40619010</b>	1.6 - 1.7 mm	approx. 40 x 20 mm



### Glass spot plates with 10 cavities

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

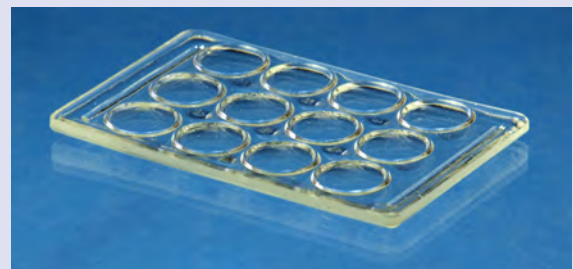
	Dimensions	Cavity Ø	Cavity
<b>40623010</b>	approx. 105 x 55 x 5 mm	approx. 14 mm	approx. 2 mm deep



### Glass spot plates with 12 cavities

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

	Dimensions	Cavity Ø	Cavity
<b>40624010</b>	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
<b>40625010</b>	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.

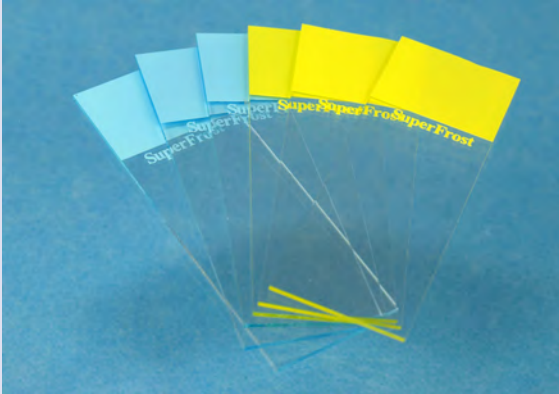
Preparations can be identified or marked according to urgency, examination method, staining technique etc. The coating of the labelling field is resistant to common solvents.

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.

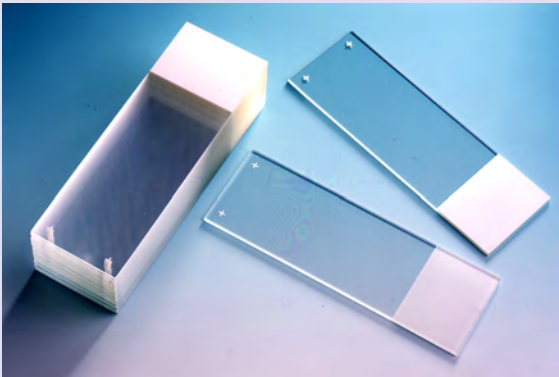
Recommended for anatomic and molecular pathology laboratories.

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
<b>42409110</b>	72 pieces	approx. 75 x 25 mm	white



## Polysine®, ground edges 90°

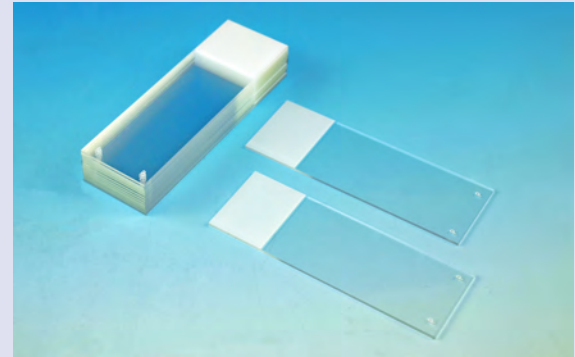
These slides come with a permanent adhesive. This provides superior cell and tissue adhesion and saves money and time by eliminating the need for expensive adhesives and time-consuming coating techniques.

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
<b>42409210</b>	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

<b>42409010</b>	blue
<b>42409020</b>	yellow
<b>42409030</b>	green
<b>42409040</b>	orange
<b>42409050</b>	rose
<b>42409060</b>	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

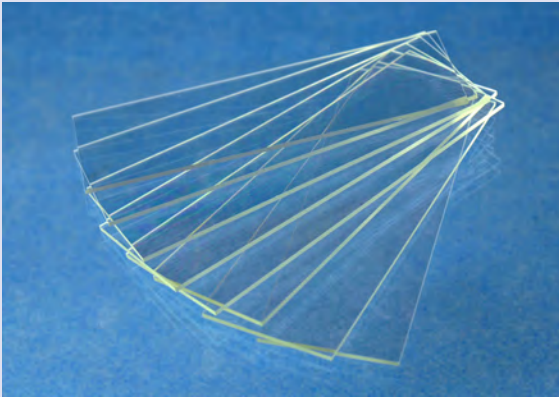
	Thickness	Dimensions
<b>42400010</b>	approx. 1 mm	approx. 76 x 26 mm



## Microscope slides ELKAmed ECO, cut edges, CE

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

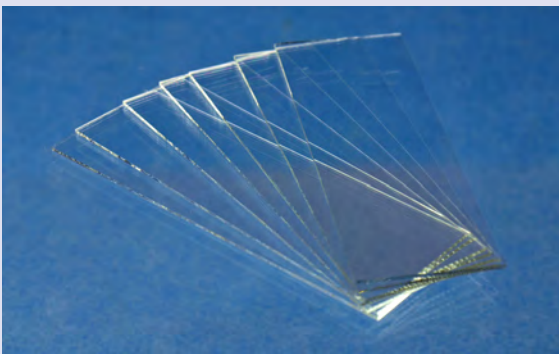
	Thickness	Dimensions
<b>42400110</b>	approx. 1 mm	approx. 76 x 26 mm



## 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
<b>42401010</b>	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
<b>42404010</b>	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

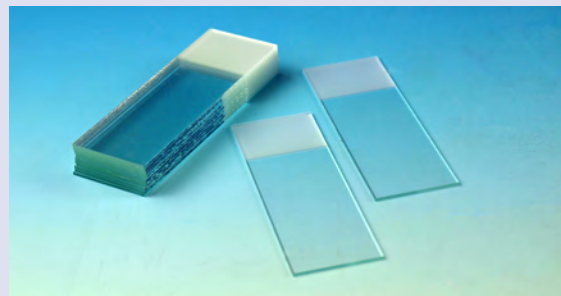
- 42406010** with frosted end on both sides
- 42406020** with frosted end on one side



## 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

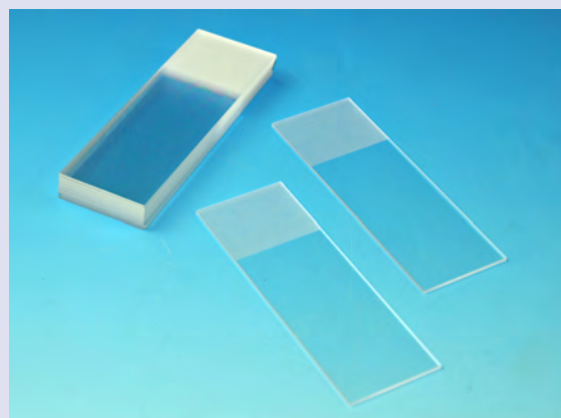
	Thickness	Dimensions
<b>42406110</b>	approx. 1 mm	approx. 76 x 26 mm



## 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

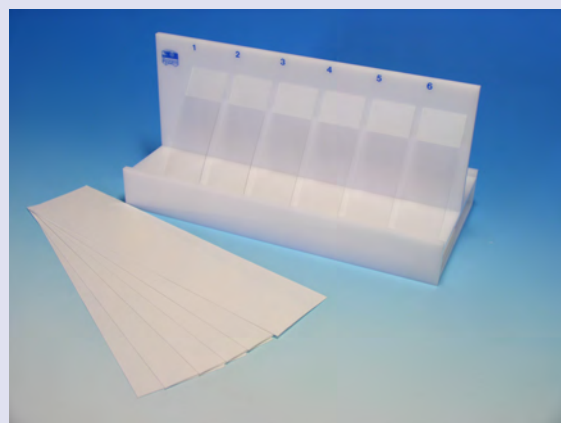
- 42407010** with frosted end on both sides  
**42407020** with frosted end on one side



## 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.

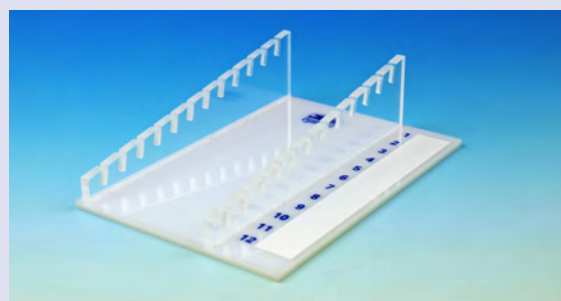
	Dimensions	Article
<b>41238010</b>	Height 105 mm	Drying rack
<b>41238020</b>	approx. 200 x 45 mm	Blotting paper 25 sheets/pack

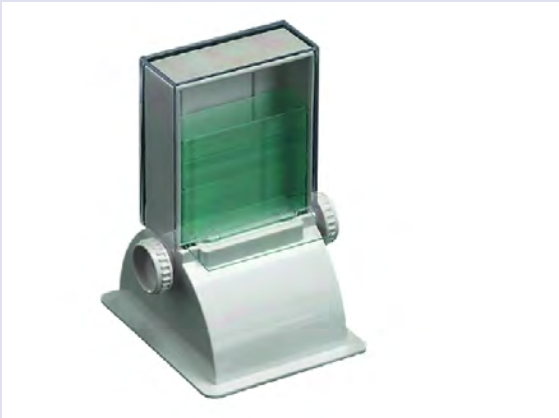


## Rack made of Plexiglas®

with numbering 1-12 and field for inscriptions

- 41240010** for 12 microscope slides

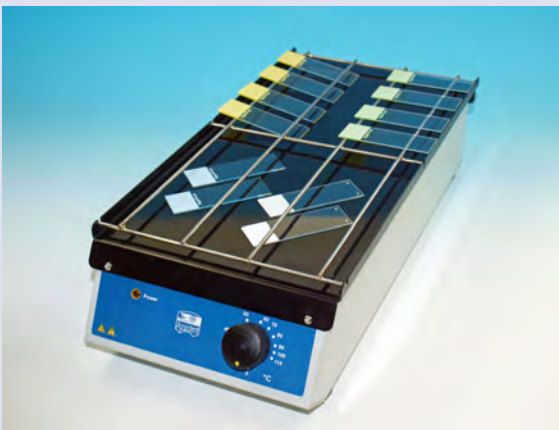




### Microscope slide dispenser

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



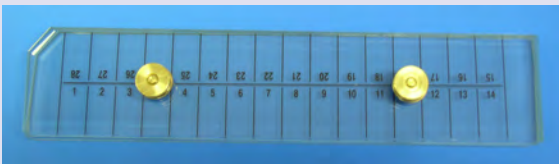
### Microscope slide drying bench with heating, CE

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
<b>41956028</b>	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

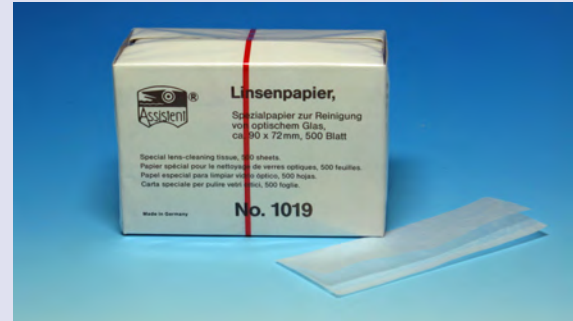
	Total height	Capacity	Ø	Height of flask
<b>40920010</b>	approx. 100 mm	approx. 40 ml	approx. 54 mm	approx. 60 mm



## 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 tinplate bottle

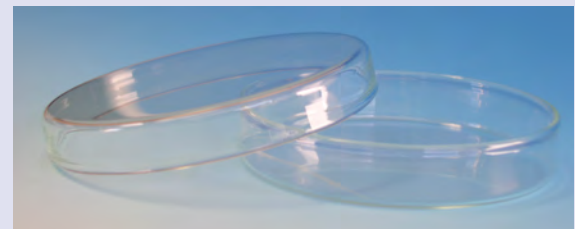
	Hardening time	Capacity	Cold-resistant
<b>41025010</b>	20 minutes	500 ml	down to -17 °C/+1.4 °F

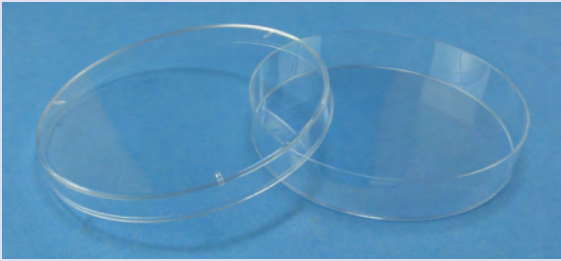


## Petri dishes made of glass

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

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

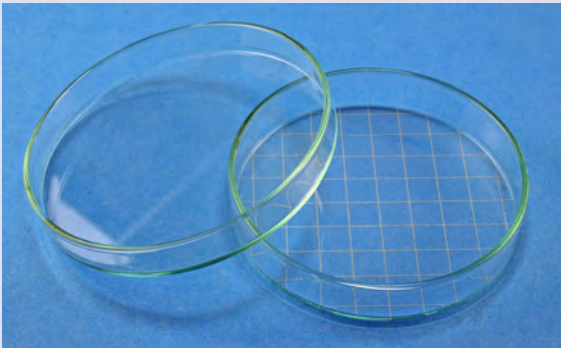




### Petri dishes made of polystyrene

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

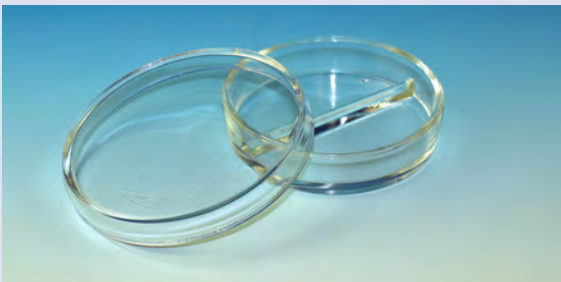
**41043010** Diameter approx. 90 mm



### Petri dishes made of glass with grid and cover

for examining trichinae

	Size of grid	Dimensions Petri dishes
<b>41044010</b>	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
<b>41049010</b>	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
<b>41710030</b>	approx. 30 g	approx. 92 mm
<b>41710060</b>	approx. 60 g	approx. 120 mm



## Bottles for Canada balsam with loose cap

with glass rod 4 mm Ø

	Capacity	Rod length
<b>41720030</b>	approx. 30 g	approx. 92 mm
<b>41720060</b>	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/cm<sup>3</sup>
- 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
<b>40163010</b>	0.2 ml	1.0 - 10 ml
<b>40163025</b>	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  $\mu\text{l}$  2, 10 and 20
- 40101006** Volume  $\mu\text{l}$  25, 50 and 100
- 40101009** Volume  $\mu\text{l}$  200, 500 and 1000

**40101110** customer-specific

#### Knobs

**40102110** customer-specific

#### Knobs for variable volume

- 40102113** 2 - 20  $\mu\text{l}$
- 40102116** 10 - 100  $\mu\text{l}$
- 40102119** 100 - 1000  $\mu\text{l}$



#### Knobs for fixed volume

- 40102003** Volume 2  $\mu\text{l}$
- 40102006** Volume 5  $\mu\text{l}$
- 40102009** Volume 10  $\mu\text{l}$
- 40102012** Volume 20  $\mu\text{l}$
- 40102015** Volume 25  $\mu\text{l}$
- 40102018** Volume 50  $\mu\text{l}$
- 40102021** Volume 100  $\mu\text{l}$
- 40102024** Volume 200  $\mu\text{l}$
- 40102027** Volume 500  $\mu\text{l}$
- 40102030** Volume 1000  $\mu\text{l}$



**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  $\mu$ 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  $\mu$ l

**Disposable pipette tips, colourless**

Conformity certified, for Brand, Labsystems Finnpipette®

**40112010** for volumes 500-5000  $\mu$ 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
<b>40131008</b>	0.01 µl	2.5-10 µl	orange	≤ 0.8 %	± 1.0 %
<b>40131016</b>	0.1 µl	5-25 µl	2x white	≤ 0.5 %	± 0.8 %
<b>40131024</b>	0.1 µl	10-50 µl	green	≤ 0.4 %	± 0.6 %
<b>40131032</b>	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  $\leq \pm 0.5 \%$ , coefficient of variation  $\leq 0.2 \%$

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

	Division	Capacity	Colour code
<b>40132006</b>	1 µl	100-500 µl	green
<b>40132012</b>	1 µl	200-1000 µl	yellow
<b>40132018</b>	10 µl	1-5 ml	red
<b>40132024</b>	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
<b>40140004</b>	5 µl	white	≤ 0.8 %	± 1.0 %
<b>40140012</b>	10 µl	orange	≤ 0.8 %	± 1.0 %
<b>40140020</b>	20 µl	black	≤ 0.5 %	± 0.8 %
<b>40140028</b>	50 µl	green	≤ 0.4 %	± 0.6 %
<b>40140036</b>	100 µl	blue	≤ 0.4 %	± 0.6 %
<b>40140042</b>	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 µl

**40138012** for 1000 µl

**40138018** for 5 ml

**40138024** for 10 ml



### Precision capillaries for Assipettors fix

Conformity certified

Packing: 100 pieces/tube

**40144004** for 5 µl

**40144020** for 20 µl



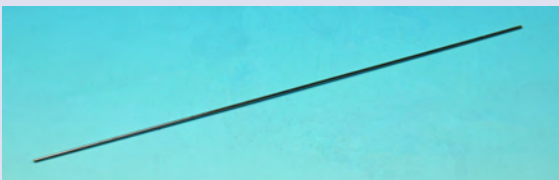
### Repair sets for Assipettors fix

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 µl)

**40146004** for fix 5 µl

**40146020** for fix 200 µl



### Spare plunger rods for Assipettors fix

Conformity certified, made of stainless steel, for sizes from size 20 µl with PTFE seal

Packing: 3 pieces/tube

**40147004** for 5 µl

**40147042** for 200 µl



### Precision capillaries for Assipettors fix and digital

Conformity certified

	for	Packing/box
<b>40154012</b>	fix + digital 10 µl	100 pieces/tube
<b>40154028</b>	fix + digital 50 µl	100 pieces/tube
<b>40154036</b>	fix + digital 100 µl + Assipettor fix, 200 µl	50 pieces/tube

### Spare seals made of PTFE

Conformity certified, complete with mounting block  
Pack of 3 pieces

- 40155020** for Assipettor fix, 20  $\mu$ l + digital, 25  $\mu$ l
- 40155028** for Assipettor fix + digital, 50  $\mu$ l
- 40155036** for Assipettor fix + digital, 100  $\mu$ l + fix, 200  $\mu$ 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  $\mu$ l)

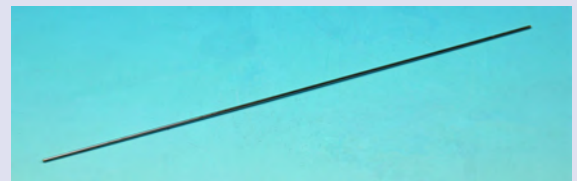
- 40156012** for fix + digital 10  $\mu$ l
- 40156020** for fix 20  $\mu$ l + digital 25  $\mu$ l
- 40156028** for fix + digital 50  $\mu$ l
- 40156036** for fix + digital 100  $\mu$ l



### Spare plunger rods for Assipettors digital and fix

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

- 40157012** for fix + digital 10  $\mu$ l
- 40157020** for fix 20  $\mu$ l + digital 25  $\mu$ l
- 40157028** for fix + digital 50  $\mu$ l
- 40157036** for fix + digital 100  $\mu$ 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 $\mu$ 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  $\mu$ 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 Al<sub>2</sub>O<sub>3</sub>)
- free rotatable on the bottle
- including two batteries AA 1.5 V for approx. 500 operating hours

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

### Digital burette "Contiburette $\mu$ 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
<b>40212010</b>	+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
<b>40173002</b>	0.01 ml	0.2-2 ml	A 25 A 28 A 32 A 38 S 40
<b>40173005</b>	0.02 ml	0.5-5 ml	A 25 A 28 A 32 A 38 S 40
<b>40173010</b>	0.05 ml	1.0-10 ml	A 25 A 28 A 32 A 38 S 40
<b>40173025</b>	0.10 ml	2.5-25 ml	A 32 A 38 S 40
<b>40173050</b>	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
<b>40183006</b>	0.01 ml	0.05-0.5 ml	A 22 A 25 A 28 A 32	≤ 0.2 %	≤ ± 1.0 %
<b>40183012</b>	0.05 ml	0.2-2 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
<b>40183018</b>	0.1 ml	0.5-5 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
<b>40183024</b>	0.2 ml	1.0-10 ml	A 25 A 28 A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
<b>40183030</b>	0.5 ml	2.5-25 ml	A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
<b>40183036</b>	1.0 ml	5.0-50 ml	A 32 A 38 S 40	≤ 0.1 %	≤ ± 0.6 %
<b>40183042</b>	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
<b>40187001</b>	1, 2, 5, 10 ml	90 mm
<b>40187002</b>	25, 50, 100 ml	120 mm
<b>40187011</b>	0.5 ml	90 mm
<b>40187012</b>	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
<b>40190018</b>	250 ml	A 32 mm	square
<b>40190024</b>	500 ml	A 32 mm	square
<b>40190030</b>	1000 ml	A 45 mm	square
<b>40190036</b>	2500 ml	A 45 mm	round



## Thread adapters

	Outside thread	for bottle thread	Material
<b>40193004</b>	32 mm	A 22	Polypropylene
<b>40193008</b>	32 mm	A 25	Polypropylene
<b>40193012</b>	32 mm	A 28	Polypropylene
<b>40193016</b>	32 mm	A 30	Polypropylene
<b>40193020</b>	45 mm	A 32	Polypropylene
<b>40193028</b>	32 mm	A 45	Polypropylene
<b>40193032</b>	32 mm	A 25	ETFE
<b>40193036</b>	32 mm	A 28	ETFE
<b>40193040</b>	45 mm	A 38	ETFE
<b>40193044</b>	32 mm	A 45	ETFE
<b>40193048</b>	32 mm	S 40	Polypropylene
<b>40193052</b>	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
<b>40199002</b>	0.5 - 10 ml	125-240 mm
<b>40199003</b>	0.5 - 10 ml	195-350 mm
<b>40199004</b>	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
<b>40120010</b>	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:

<b>Batch certificate:</b>	42556 <b>0</b> 52 - Number remains, batch certificate comes with every PU
<b>Individual certificate of performance:</b>	42556 <b>6</b> 52 – 3rd position righthand changes from 0 to 6
<b>USP batch certificate:</b>	42556 <b>4</b> 52 – 3rd position righthand changes from 0 to 4
<b>DAkkS calibration certificate:</b>	42556 <b>8</b> 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
<b>40521008</b>	0.01 ml	0.015 ml	2 ml
<b>40521012</b>	0.02 ml	0.015 ml	5 ml
<b>40521016</b>	0.02 ml	0.03 ml	10 ml

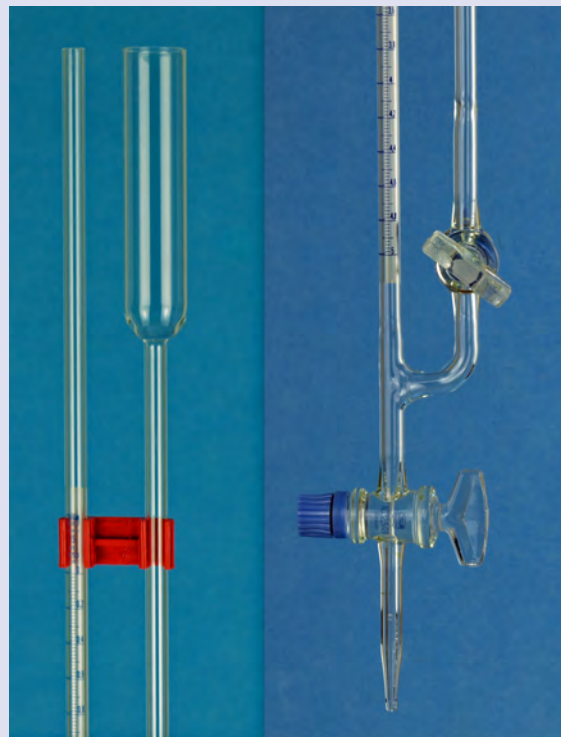


## Micro burettes for use with a stand

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
<b>40523008</b>	0.01 ml	0.015 ml	2 ml
<b>40523012</b>	0.02 ml	0.015 ml	5 ml
<b>40523016</b>	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
<b>40791015</b>	0.02 ml	0.030 ml	10 ml
<b>40791022</b>	0.05 ml	0.045 ml	25 ml
<b>40791025</b>	0.1 ml	0.075 ml	25 ml
<b>40791050</b>	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
<b>40791715</b>	0.02 ml	0.020 ml	10 ml
<b>40791722</b>	0.05 ml	0.030 ml	25 ml
<b>40791750</b>	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)

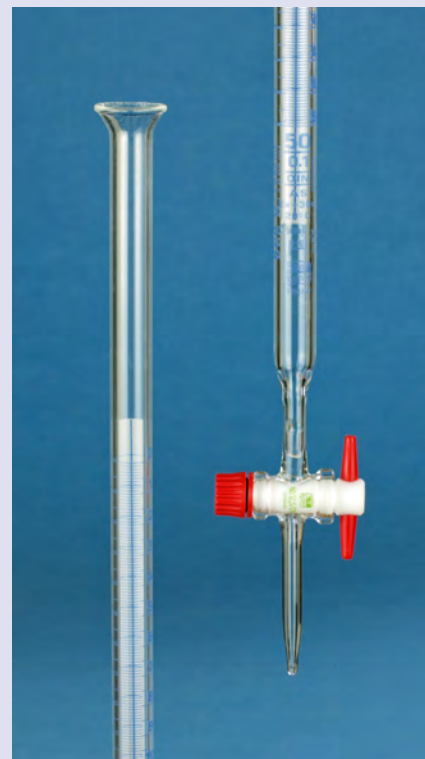
	Division	Tolerance	Capacity
<b>40792715</b>	0.02 ml	0.020 ml	10 ml
<b>40792722</b>	0.05 ml	0.030 ml	25 ml
<b>40792750</b>	0.1 ml	0.050 ml	50 ml

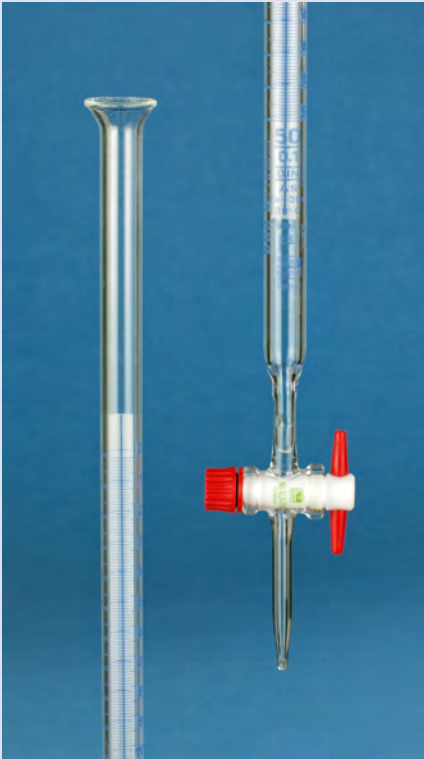


## with straight stopcock with PTFE plug

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
<b>40793022</b>	0.045 ml	0.05 ml	25 ml
<b>40793025</b>	0.075 ml	0.1 ml	25 ml
<b>40793050</b>	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
<b>40793715</b>	0.02 ml	0.020 ml	10 ml
<b>40793722</b>	0.05 ml	0.030 ml	25 ml
<b>40793750</b>	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
<b>40795015</b>	0.02 ml	0.030 ml	10 ml
<b>40795022</b>	0.05 ml	0.045 ml	25 ml
<b>40795025</b>	0.1 ml	0.075 ml	25 ml
<b>40795050</b>	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
<b>40795715</b>	0.02 ml	0.020 ml	10 ml
<b>40795722</b>	0.05 ml	0.030 ml	25 ml
<b>40795750</b>	0.1 ml	0.050 ml	50 ml

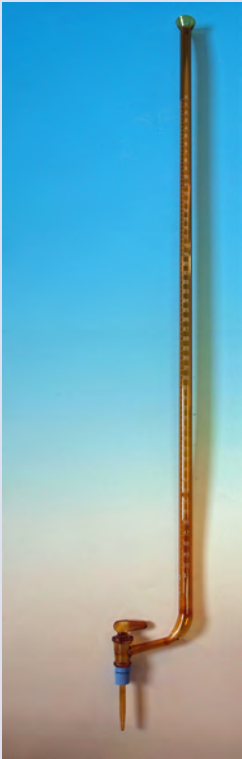


**Burettes, amber glass, DURAN® borosilicate glass 3.3 with straight stopcock and glass plug**

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
<b>40811025</b>	0.075 ml	25 ml : 0.1
<b>40811050</b>	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
<b>40812025</b>	0.075 ml	25 ml : 0.1
<b>40812050</b>	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

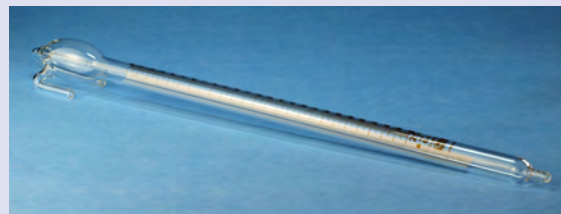
	Division	Tolerance	Capacity	Bottle capacity
<b>40820005</b>	0.05 ml	0.050 ml	5 ml	500 ml
<b>40820010</b>	0.05 ml	0.050 ml	10 ml	500 ml
<b>40820015</b>	0.1 ml	0.100 ml	15 ml	500 ml
<b>40820025</b>	0.1 ml	0.100 ml	25 ml	1000 ml
<b>40820050</b>	0.1 ml	0.100 ml	50 ml	1000 ml



## Spare burettes for no. 40820...

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

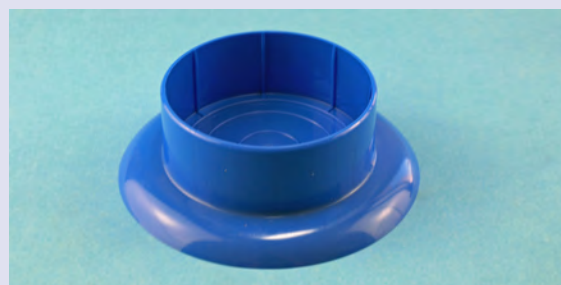
	Division	Tolerance	Capacity
<b>40821005</b>	0.05 ml	0.050 ml	5 ml
<b>40821010</b>	0.05 ml	0.050 ml	10 ml
<b>40821015</b>	0.1 ml	0.100 ml	15 ml
<b>40821025</b>	0.1 ml	0.100 ml	25 ml
<b>40821050</b>	0.1 ml	0.100 ml	50 ml



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

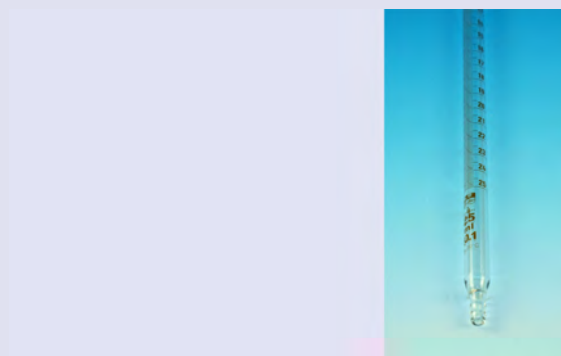
**40823001** suitable for plastic bottles of 500 ml

**40823002** suitable for plastic bottles of 1000 ml



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

	Division	Capacity
<b>40796015</b>	0.02 ml	10 ml
<b>40796022</b>	0.05 ml	25 ml
<b>40796025</b>	0.10 ml	25 ml
<b>40796050</b>	0.10 ml	50 ml



## with straight stopcock

	Division	Capacity
<b>40797015</b>	0.02 ml	10 ml
<b>40797022</b>	0.05 ml	25 ml
<b>40797025</b>	0.10 ml	25 ml
<b>40797050</b>	0.10 ml	50 ml





### with lateral stopcock

	Division	Capacity
<b>40798015</b>	0.02 ml	10 ml
<b>40798022</b>	0.05 ml	25 ml
<b>40798025</b>	0.10 ml	25 ml
<b>40798050</b>	0.10 ml	50 ml



### with straight stopcock with PTFE plug

	Division	Capacity
<b>40799015</b>	0.02 ml	10 ml
<b>40799022</b>	0.05 ml	25 ml
<b>40799025</b>	0.10 ml	25 ml
<b>40799050</b>	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
<b>41503002</b>	2.5 mm	Joint size 14.5 mm
<b>41503004</b>	4 mm	Joint size 18.8 mm
<b>41503006</b>	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
<b>41504002</b>	2.5 mm	Joint size 14.5 mm
<b>41504004</b>	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
<b>41510010</b>	2 mm	12.5



#### with plug made of PTFE

with reliable retaining device (screw thread or rubber cap)

	Bore	Thread
<b>41511010</b>	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
<b>41522010</b>	2.5 mm	14.5



#### with plug made of PTFE

with double oblique bore, with reliable retaining device

	Bore	Thread
<b>41523010</b>	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

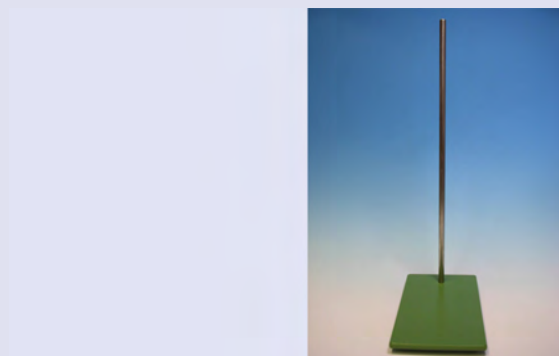


## Accessories for Burettes

### 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
<b>40868007</b>	approx. 50 mm	approx. 70 mm
<b>40868010</b>	approx. 80 mm	approx. 100 mm
<b>40868013</b>	approx. 110 mm	approx. 130 mm



### Rings with bosshead

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

	Inside Ø	Outside Ø
<b>40869007</b>	approx. 50 mm	approx. 70 mm
<b>40869010</b>	approx. 80 mm	approx. 100 mm
<b>40869013</b>	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





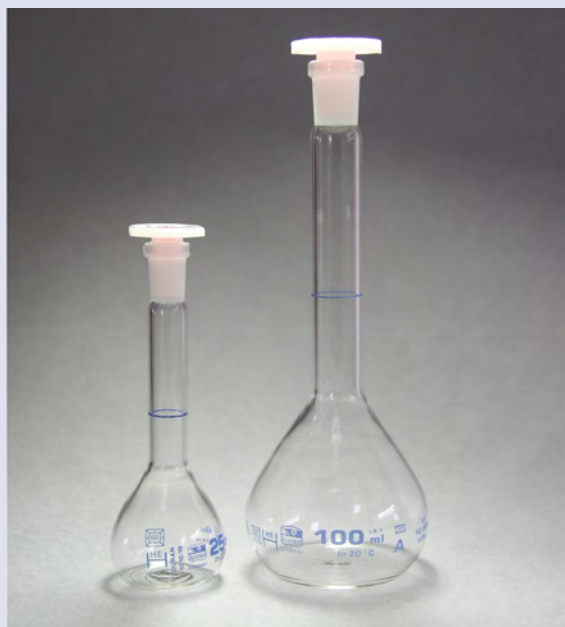
**Volumetric flasks, standard type, DURAN® borosilicate glass 3.3, with standard ground joint and stopper made of polyethylene**

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

	Tolerance	Capacity	Joint size
<b>42094004</b>	0.038 ml	5 ml	7/16
<b>42094008</b>	0.06 ml	5 ml	10/19
<b>42094012</b>	0.038 ml	10 ml	7/16
<b>42094016</b>	0.06 ml	10 ml	10/19
<b>42094020</b>	0.06 ml	20 ml	10/19
<b>42094024</b>	0.09 ml	20 ml	12/21
<b>42094028</b>	0.06 ml	25 ml	10/19
<b>42094032</b>	0.09 ml	25 ml	12/21
<b>42094036</b>	0.09 ml	30 ml (*)	12/21
<b>42094040</b>	0.15 ml	50 ml	12/21
<b>42094044</b>	0.12 ml	50 ml	14/23
<b>42094048</b>	0.15 ml	100 ml	12/21
<b>42094052</b>	0.15 ml	100 ml	14/23
<b>42094056</b>	0.15 ml	150 ml (*)	14/23
<b>42094060</b>	0.23 ml	200 ml	14/23
<b>42094064</b>	0.23 ml	250 ml	14/23
<b>42094068</b>	0.23 ml	300 ml (*)	14/23
<b>42094072</b>	0.38 ml	400 ml (*)	19/26
<b>42094076</b>	0.38 ml	500 ml	19/26
<b>42094080</b>	0.6 ml	1000 ml	24/29
<b>42094084</b>	0.9 ml	1000 ml	29/32
<b>42094088</b>	0.9 ml	2000 ml	29/32
<b>42094092</b>	1.2 ml	3000 ml	29/32
<b>42094096</b>	1.8 ml	5000 ml	34/35
<b>42094099</b>	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
<b>42096004</b>	0.025 ml	5 ml	7/16
<b>42096008</b>	0.04 ml	5 ml (*)	10/19
<b>42096012</b>	0.025 ml	10 ml	7/16
<b>42096016</b>	0.04 ml	10 ml (*)	10/19
<b>42096020</b>	0.04 ml	20 ml	10/19
<b>42096024</b>	0.06 ml	20 ml (*)	12/21
<b>42096028</b>	0.04 ml	25 ml	10/19
<b>42096032</b>	0.06 ml	25 ml (*)	12/21
<b>42096040</b>	0.06 ml	50 ml	12/21
<b>42096044</b>	0.10 ml	50 ml (*)	14/23
<b>42096048</b>	0.10 ml	100 ml	12/21
<b>42096052</b>	0.10 ml	100 ml	14/23
<b>42096060</b>	0.15 ml	200 ml	14/23
<b>42096064</b>	0.15 ml	250 ml	14/23
<b>42096076</b>	0.25 ml	500 ml	19/26
<b>42096080</b>	0.4 ml	1000 ml	24/29
<b>42096084</b>	0.6 ml	1000 ml (*)	29/32
<b>42096088</b>	0.6 ml	2000 ml	29/32
<b>42096096</b>	1.2 ml	5000 ml	34/35
<b>42096099</b>	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
<b>42110006</b>	0.025 ml	1 ml	7/16
<b>42110012</b>	0.025 ml	2 ml	7/16
<b>42110018</b>	0.025 ml	5 ml	7/16
<b>42110024</b>	0.025 ml	10 ml	7/16
<b>42110030</b>	0.04 ml	20 ml	10/19
<b>42110036</b>	0.04 ml	25 ml	10/19
<b>42110042</b>	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
<b>42170012</b>	0.2 ml	10 ml
<b>42170018</b>	0.5 ml	25 ml
<b>42170024</b>	1 ml	50 ml
<b>42170030</b>	1 ml	100 ml
<b>42170048</b>	2 ml	250 ml
<b>42170060</b>	5 ml	500 ml
<b>42170066</b>	10 ml	1000 ml
<b>42170072</b>	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



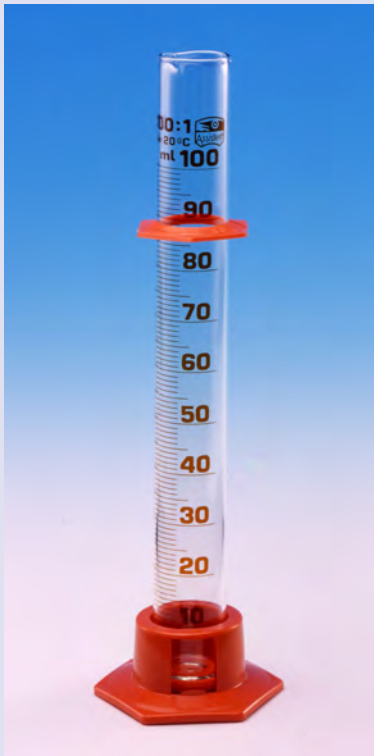


**Measuring cylinders, tall form, DURAN® borosilicate glass 3.3, hexagonal base, conformity certified**

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
<b>44401006</b>	approx. 17 mm	approx. 5 ml	approx. 80 mm
<b>44401012</b>	approx. 20 mm	approx. 10 ml	approx. 100 mm
<b>44401018</b>	approx. 24 mm	approx. 25 ml	approx. 125 mm
<b>44401024</b>	approx. 29 mm	approx. 50 ml	approx. 150 mm
<b>44401030</b>	approx. 39 mm	approx. 100 ml	approx. 170 mm
<b>44401036</b>	approx. 48 mm	approx. 150 ml	approx. 170 mm
<b>44401042</b>	approx. 48 mm	approx. 200 ml	approx. 195 mm
<b>44401048</b>	approx. 48 mm	approx. 250 ml	approx. 225 mm (higher than DIN)
<b>44401054</b>	approx. 48 mm	approx. 300 ml	approx. 290 mm
<b>44401060</b>	approx. 65 mm	approx. 500 ml	approx. 255 mm
<b>44401066</b>	approx. 80 mm	approx. 1000 ml	approx. 295 mm
<b>44401072</b>	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
<b>42205006</b>	0.1 ml	0.5 ml	5 ml
<b>42205012</b>	0.2 ml	1 ml	10 ml
<b>42205018</b>	0.5 ml	1 ml	25 ml
<b>42205024</b>	1 ml	2 ml	50 ml
<b>42205030</b>	1 ml	2 ml	100 ml
<b>42205036</b>	2 ml	5 ml	150 ml
<b>42205042</b>	2 ml	5 ml	200 ml
<b>42205048</b>	2 ml	5 ml	250 ml
<b>42205060</b>	5 ml	10 ml	500 ml
<b>42205066</b>	10 ml	20 ml	1000 ml
<b>42205072</b>	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

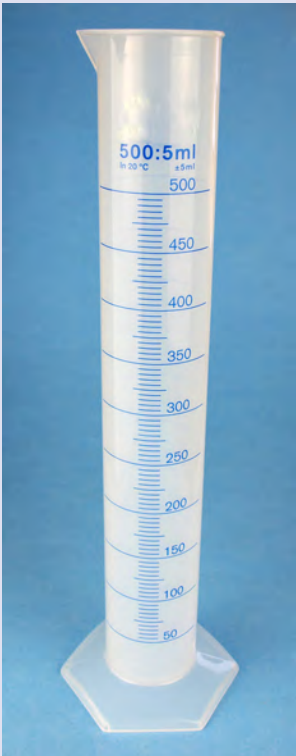




### Sperm cylinders with funnel top, CE

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
<b>42194012</b>	0.2 ml	10 ml
<b>42194018</b>	0.5 ml	25 ml
<b>42194024</b>	1 ml	50 ml
<b>42194030</b>	1 ml	100 ml
<b>42194048</b>	2 ml	250 ml
<b>42194060</b>	5 ml	500 ml
<b>42194066</b>	10 ml	1000 ml
<b>42194072</b>	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

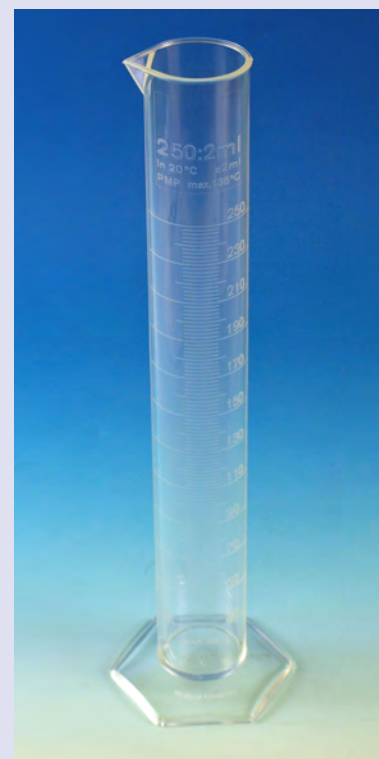
	Tolerance	Capacity
42195012	0.2 ml	10 ml
42195018	0.5 ml	25 ml
42195024	1 ml	50 ml
42195030	1 ml	100 ml
42195048	2 ml	250 ml
42195060	5 ml	500 ml
42195066	10 ml	1000 ml
42195072	20 ml	2000 ml

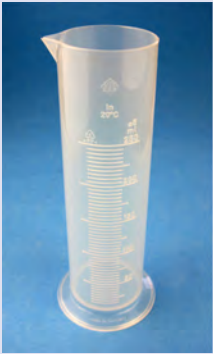


## Measuring cylinders, plastic, made of polymethylpentene (PMP), hexagonal base, tall form, embossed scale

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
<b>42284024</b>	2 ml	40 mm	50 ml	70 mm
<b>42284030</b>	2 ml	50 mm	100 ml	80 mm
<b>42284048</b>	5 ml	74 mm	250 ml	120 mm
<b>42284060</b>	10 ml	95 mm	500 ml	140 mm
<b>42284066</b>	20 ml	117 mm	1000 ml	181 mm
<b>42284072</b>	50 ml	152 mm	2000 ml	213 mm
<b>42284078</b>	50 ml	172 mm	3000 ml	242 mm
<b>42284084</b>	100 ml	204 mm	5000 ml	270 mm



## Measuring Jugs

### Conical, polypropylene

Transparent, embossed scale, round base, autoclavable

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



### Bell shape

Clear glass, graduated

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



## Pycnometers

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



- 42570008** Capacity 5 cm<sup>3</sup>
- 42570016** Capacity 10 cm<sup>3</sup>
- 42570024** Capacity 25 cm<sup>3</sup>
- 42570032** Capacity 50 cm<sup>3</sup>
- 42570040** Capacity 100 cm<sup>3</sup>

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



- 42571008** Capacity 5 cm<sup>3</sup>
- 42571016** Capacity 10 cm<sup>3</sup>
- 42571024** Capacity 25 cm<sup>3</sup>
- 42571032** Capacity 50 cm<sup>3</sup>
- 42571040** Capacity 100 cm<sup>3</sup>

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



- 42571308** Capacity 5 cm<sup>3</sup>
- 42571316** Capacity 10 cm<sup>3</sup>
- 42571324** Capacity 25 cm<sup>3</sup>
- 42571332** Capacity 50 cm<sup>3</sup>
- 42571340** Capacity 100 cm<sup>3</sup>



## 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 cm<sup>3</sup>
- 42572024** Capacity 25 cm<sup>3</sup>
- 42572032** Capacity 50 cm<sup>3</sup>
- 42572040** Capacity 100 cm<sup>3</sup>



## 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 cm<sup>3</sup>
- 42572316** Capacity 10 cm<sup>3</sup>
- 42572324** Capacity 25 cm<sup>3</sup>
- 42572332** Capacity 50 cm<sup>3</sup>
- 42572340** Capacity 100 cm<sup>3</sup>

## 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
<b>42574001</b>	0.05/0.005 ml	1.0/1.1 ml
<b>42574002</b>	0.05/0.05/0.005 ml	0.5/1.0/1.1 ml
<b>42574004</b>	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

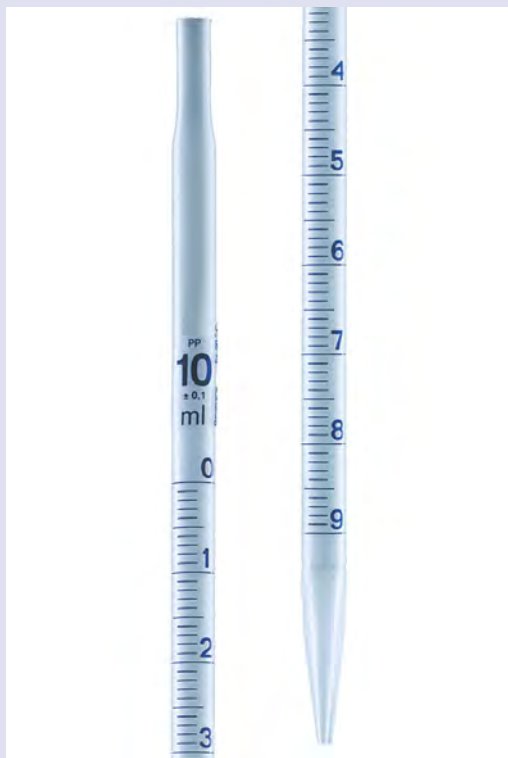
#### made of polypropylene

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
<b>42525020</b>	0.1 ml	1 ml	300 mm ± 10 mm	± 0.02 ml
<b>42525028</b>	0.1 ml	2 ml	300 mm ± 10 mm	± 0.02 ml
<b>42525040</b>	0.01 ml	5 ml	330 mm ± 10 mm	± 0.05 ml
<b>42525048</b>	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
<b>42539016</b>	0.008 ml	0.01 ml	0.5 ml
<b>42539020</b>	0.010 ml	0.01 ml	1 ml
<b>42539036</b>	0.015 ml	0.02 ml	2 ml
<b>42539040</b>	0.045 ml	0.1 ml	5 ml
<b>42539044</b>	0.045 ml	0.05 ml	5 ml
<b>42539048</b>	0.075 ml	0.1 ml	10 ml
<b>42539052</b>	0.150 ml	0.1 ml	20 ml
<b>42539056</b>	0.150 ml	0.1 ml	25 ml
<b>42539060</b>	0.300 ml	0.2 ml	50 ml



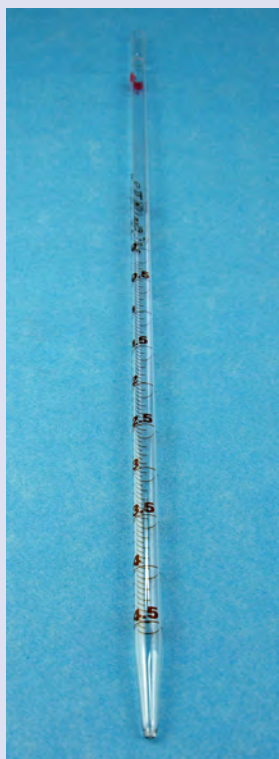
## Measuring pipettes, standard model, clear glass, total delivery (calibrated up to the tip)

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





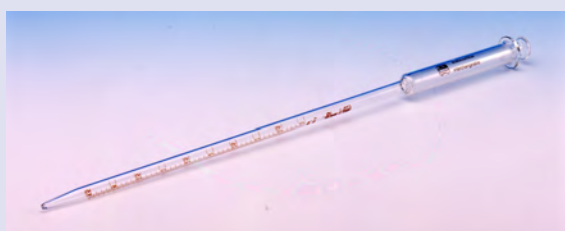
## Measuring pipettes, conformity certified

### 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
<b>42541016</b>	0.005 ml	0.01 ml	0.5 ml
<b>42541020</b>	0.007 ml	0.01 ml	1 ml
<b>42541036</b>	0.01 ml	0.02 ml	2 ml
<b>42541040</b>	0.03 ml	0.1 ml	5 ml
<b>42541044</b>	0.03 ml	0.05 ml	5 ml
<b>42541048</b>	0.05 ml	0.1 ml	10 ml
<b>42541052</b>	0.1 ml	0.1 ml	20 ml
<b>42541056</b>	0.1 ml	0.1 ml	25 ml
<b>42541060</b>	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
<b>42548020</b>	0.01 ml	1 ml
<b>42548036</b>	0.02 ml	2 ml
<b>42548044</b>	0.05 ml	5 ml
<b>42548048</b>	0.1 ml	10 ml
<b>42548052</b>	0.1 ml	20 ml
<b>42548056</b>	0.1 ml	25 ml



## Pipettes made of glass, ungraduated

Diameter approx. 7 mm

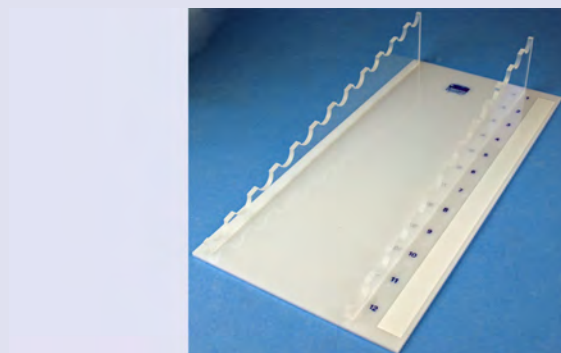
- 42569012** Length approx. 12 cm
- 42569015** Length approx. 15 cm
- 42569020** Length approx. 20 cm
- 42569025** Length approx. 25 cm

## 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

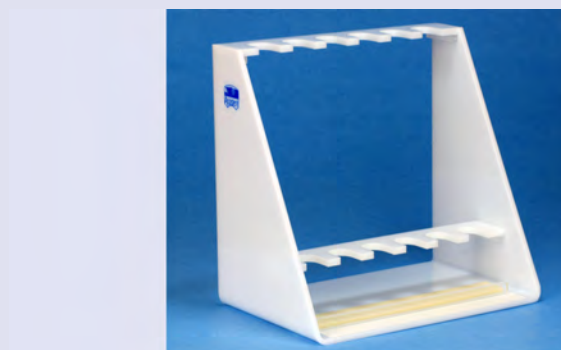
**42586010** for pipette tray no. 42585010



### Pipette stands made of Plexiglas®

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

	for	Height	Length
<b>42590006</b>	6 pipettes	approx. 181 mm	approx. 188 mm
<b>42590012</b>	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
<b>42550004</b>	0.0075 ml	0.5 ml	10 pieces
<b>42550008</b>	0.01 ml	1 ml	10 pieces
<b>42550016</b>	0.015 ml	2 ml	10 pieces
<b>42550024</b>	0.015 ml	3 ml	10 pieces
<b>42550028</b>	0.020 ml	4 ml	10 pieces
<b>42550032</b>	0.020 ml	5 ml	10 pieces
<b>42550036</b>	0.020 ml	6 ml	10 pieces
<b>42550040</b>	0.020 ml	7 ml	10 pieces
<b>42550052</b>	0.030 ml	10 ml	10 pieces
<b>42550056</b>	0.045 ml	11 ml	10 pieces
<b>42550064</b>	0.045 ml	20 ml	6 pieces
<b>42550068</b>	0.045 ml	25 ml	6 pieces
<b>42550080</b>	0.075 ml	50 ml	6 pieces
<b>42550084</b>	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
<b>42560008</b>	1 ml	300 mm ± 10 mm	Straight	± 0.02 ml
<b>42560016</b>	2 ml	300 mm ± 10 mm	Straight	± 0.02 ml
<b>42560032</b>	5 ml	300 mm ± 10 mm	with bulb	± 0.03 ml
<b>42560056</b>	10 ml	440 mm ± 10 mm	with bulb	± 0.04 ml
<b>42560068</b>	25 ml	450 mm ± 10 mm	with bulb	± 0.06 ml
<b>42560080</b>	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
<b>42556004</b>	0.005 ml	0.5 ml	10 pieces
<b>42556008</b>	0.007 ml	1 ml	10 pieces
<b>42556016</b>	0.01 ml	2 ml	10 pieces
<b>42556020</b>	0.01 ml	2.5 ml	10 pieces
<b>42556024</b>	0.01 ml	3 ml	10 pieces
<b>42556028</b>	0.015 ml	4 ml	10 pieces
<b>42556032</b>	0.015 ml	5 ml	10 pieces
<b>42556040</b>	0.015 ml	7 ml	10 pieces
<b>42556044</b>	0.02 ml	8 ml	10 pieces
<b>42556048</b>	0.02 ml	9 ml	10 pieces
<b>42556052</b>	0.02 ml	10 ml	10 pieces
<b>42556060</b>	0.03 ml	20 ml	6 pieces
<b>42556064</b>	0.03 ml	20 ml	6 pieces
<b>42556068</b>	0.03 ml	25 ml	6 pieces
<b>42556072</b>	0.05 ml	40 ml	6 pieces
<b>42556076</b>	0.05 ml	50 ml	6 pieces
<b>42556080</b>	0.05 ml	50 ml	6 pieces
<b>42556084</b>	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
<b>42557004</b>	0.005 ml	10 pieces	0.5 ml
<b>42557008</b>	0.007 ml	10 pieces	1 ml
<b>42557016</b>	0.01 ml	10 pieces	2 ml
<b>42557024</b>	0.01 ml	10 pieces	3 ml
<b>42557028</b>	0.015 ml	10 pieces	4 ml
<b>42557032</b>	0.015 ml	10 pieces	5 ml
<b>42557064</b>	0.03 ml	6 pieces	20 ml
<b>42557080</b>	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

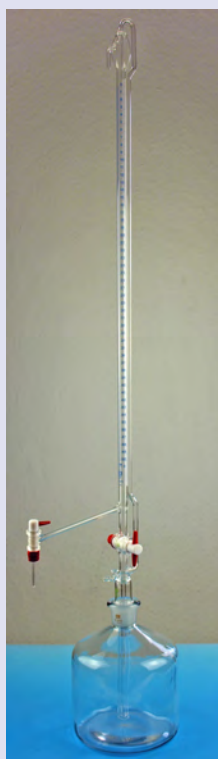
Burette with Schellbach stripe, fused blue graduation "ASSISTENT-PERMANENT"

consisting of:

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

	Tolerance	Division	Capacity	Stopcock/Plug
<b>48400022</b>	0.045 ml	0.05 ml	25 ml	Both stopcocks with glass plug
<b>48400025</b>	0.075 ml	0.1 ml	25 ml	Both stopcocks with glass plug
<b>48400050</b>	0.075 ml	0.1 ml	50 ml	Both stopcocks with glass plug
<b>48400122</b>	0.045 ml	0.05 ml	25 ml	Both stopcocks with PTFE plug
<b>48400125</b>	0.075 ml	0.1 ml	25 ml	Both stopcocks with PTFE plug
<b>48400150</b>	0.075 ml	0.1 ml	50 ml	Both stopcocks with PTFE plug
<b>48400322</b>	0.045 ml	0.05 ml	25 ml	*
<b>48400325</b>	0.075 ml	0.1 ml	25 ml	*
<b>48400350</b>	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
<b>48410022</b>	0.045 ml	0.05 ml	25 ml	Delivery stopcock with glass plug
<b>48410025</b>	0.075 ml	0.1 ml	25 ml	Delivery stopcock with glass plug
<b>48410050</b>	0.075 ml	0.1 ml	50 ml	Delivery stopcock with glass plug
<b>48410122</b>	0.045 ml	0.05 ml	25 ml	Delivery stopcock with PTFE plug
<b>48410125</b>	0.075 ml	0.1 ml	25 ml	Delivery stopcock with PTFE plug
<b>48410150</b>	0.075 ml	0.1 ml	50 ml	Delivery stopcock with PTFE plug
<b>48410222</b>	0.045 ml	0.05 ml	25 ml	Lateral safety needle valve stopcock+PTFE spindle
<b>48410225</b>	0.075 ml	0.1 ml	25 ml	Lateral safety needle valve stopcock+PTFE spindle
<b>48410250</b>	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
<b>40850001</b>	approx. 4 mm	approx. 400 mm	approx. 8-9 mm

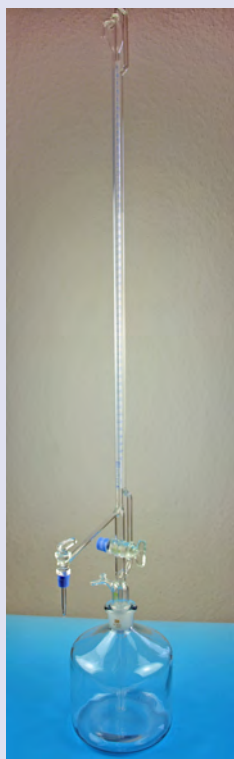


## Rubber bulbs for automatic burettes (double with net)

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
<b>40850002</b>	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
<b>48415015</b>	0.02 ml	0.020 ml	10 ml	Stopcocks with glass plug
<b>48415022</b>	0.05 ml	0.030 ml	25 ml	Stopcocks with glass plug
<b>48415050</b>	0.1 ml	0.050 ml	50 ml	Stopcocks with glass plug
<b>48415315</b>	0.02 ml	0.020 ml	10 ml	*
<b>48415322</b>	0.05 ml	0.030 ml	25 ml	*
<b>48415350</b>	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)

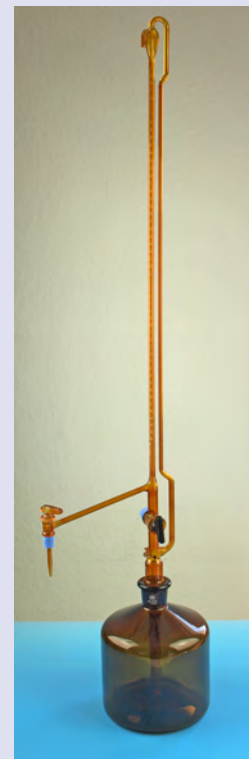
	Division	Tolerance	Capacity
<b>48416215</b>	0.02 ml	0.020 ml	10 ml
<b>48416222</b>	0.05 ml	0.030 ml	25 ml
<b>48416250</b>	0.1 ml	0.050 ml	50 ml

**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
<b>48452015</b>	0.02 ml	0.050 ml	10 ml
<b>48452025</b>	0.1 ml	0.075 ml	25 ml
<b>48452050</b>	0.1 ml	0.100 ml	50 ml

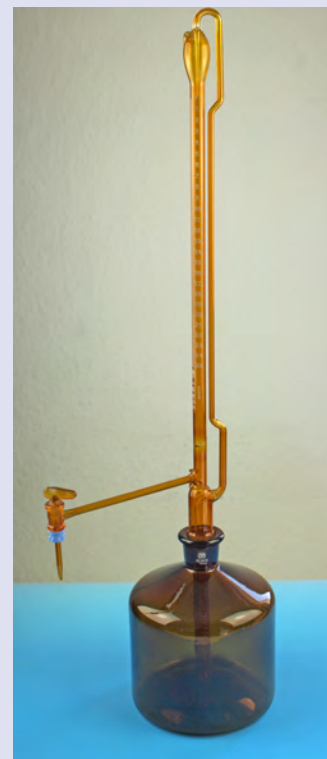


**DURAN® borosilicate glass 3.3 amber, without stopcock between burette and bottle**

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
<b>48462015</b>	0.02 ml	0.050 ml	10 ml
<b>48462025</b>	0.1 ml	0.075 ml	25 ml
<b>48462050</b>	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

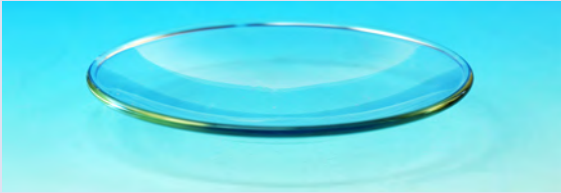
## General Laboratory Equipment

### Evaporating dishes made of glass

#### Watch glasses

DIN 12 341, fused rim

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



#### ground in pairs

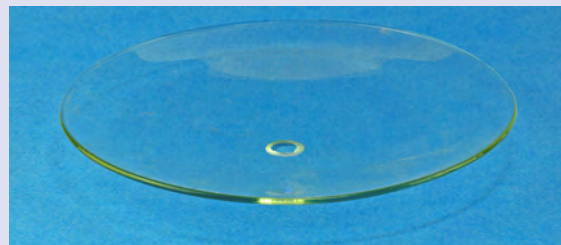
<b>40011005</b>	Ø approx. 5 cm
<b>40011006</b>	Ø approx. 6 cm
<b>40011007</b>	Ø approx. 7 cm
<b>40011008</b>	Ø approx. 8 cm
<b>40011009</b>	Ø approx. 9 cm
<b>40011010</b>	Ø approx. 10 cm
<b>40011011</b>	Ø approx. 11 cm
<b>40011012</b>	Ø approx. 12 cm
<b>40011014</b>	Ø approx. 14 cm
<b>40011015</b>	Ø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





## Evaporating dishes made of glass with hole in centre

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



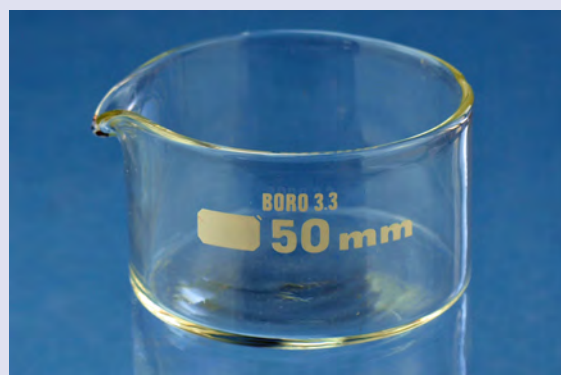
## Crystallising dishes

### with spout, borosilicate glass 3.3

Cylindrical, flat bottom

	Height	Outside Ø
<b>41969040</b>	approx. 25 mm	approx. 40 mm
<b>41969050</b>	approx. 30 mm	approx. 50 mm
<b>41969060</b>	approx. 35 mm	approx. 60 mm
<b>41969070</b>	approx. 40 mm	approx. 70 mm
<b>41969080</b>	approx. 45 mm	approx. 80 mm
<b>41969095</b>	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
<b>44250001</b>	approx. 10 ml	approx. 25 mm	approx. 40 mm
<b>44250002</b>	approx. 20 ml	approx. 30 mm	approx. 50 mm
<b>44250003</b>	approx. 40 ml	approx. 40 mm	approx. 50 mm
<b>44250004</b>	approx. 45 ml	approx. 35 mm	approx. 70 mm
<b>44250005</b>	approx. 70 ml	approx. 40 mm	approx. 80 mm
<b>44250006</b>	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
<b>44251010</b>	approx. 10 ml	approx. 30 mm
<b>44251011</b>	approx. 15 ml	approx. 35 mm
<b>44251012</b>	approx. 20 ml	approx. 40 mm
<b>44251013</b>	approx. 30 ml	approx. 50 mm
<b>44251014</b>	approx. 45 ml	approx. 60 mm
<b>44251016</b>	approx. 80 ml	approx. 80 mm



### Glass tanks

#### Fine ground rim

made of clear glass

	Width	Height	Length
<b>40070001</b>	approx. 10 cm	approx. 15 cm	approx. 15 cm
<b>40070002</b>	approx. 13 cm	approx. 18 cm	approx. 18 cm
<b>40070003</b>	approx. 15 cm	approx. 20 cm	approx. 20 cm
<b>40070004</b>	approx. 18 cm	approx. 22 cm	approx. 25 cm
<b>40070005</b>	approx. 22 cm	approx. 24 cm	approx. 30 cm
<b>40070006</b>	approx. 23 cm	approx. 26 cm	approx. 36 cm
<b>40070011</b>	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
<b>42660002</b>	approx. 100 mm	approx. 50 mm	approx. 50 mm
<b>42660003</b>	approx. 150 mm	approx. 80 mm	approx. 60 mm
<b>42660004</b>	approx. 150 mm	approx. 105 mm	approx. 50 mm
<b>42660006</b>	approx. 200 mm	approx. 120 mm	approx. 80 mm
<b>42660007</b>	approx. 200 mm	approx. 130 mm	approx. 130 mm
<b>42660008</b>	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
<b>42661010</b>	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
<b>41322012</b>	30 ml	GL 18
<b>41322018</b>	50 ml	GL 18
<b>41322030</b>	100 ml	GL 22
<b>41322054</b>	250 ml	GL 22
<b>41322066</b>	500 ml	GL 25
<b>41322072</b>	1000 ml	GL 28



### Amber glass, with thread and screw cap

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

	Capacity	Thread
<b>41323018</b>	50 ml	GL 18
<b>41323030</b>	100 ml	GL 22
<b>41323048</b>	200 ml	GL 22
<b>41323054</b>	250 ml	GL 22
<b>41323066</b>	500 ml	GL 25
<b>41323072</b>	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.

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



## Reagent bottles with scale

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

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



## Clear glass, without screw cap and pouring ring

DURAN® borosilicate glass 3.3, with thread ISO, autoclavable

	Capacity	Thread
<b>41330006</b>	50 ml	GL 32
<b>41330012</b>	100 ml	GL 45
<b>41330018</b>	250 ml	GL 45
<b>41330024</b>	500 ml	GL 45
<b>41330030</b>	1000 ml	GL 45
<b>41330036</b>	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
<b>41331106</b>	50 ml	GL 32
<b>41331112</b>	100 ml	GL 45
<b>41331118</b>	250 ml	GL 45
<b>41331124</b>	500 ml	GL 45
<b>41331130</b>	1000 ml	GL 45
<b>41331136</b>	2000 ml	GL 45
<b>41331142</b>	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
<b>41335010</b>	bottles from 100 ml	GL 45
<b>41335032</b>	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
<b>41336010</b>	bottles from 100 ml	GL 45
<b>41336032</b>	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
<b>41340014</b>	125 ml	approx. 124 mm	approx. 55 mm	GL 45
<b>41340018</b>	250 ml	approx. 158 mm	approx. 66 mm	GL 45
<b>41340024</b>	500 ml	approx. 193 mm	approx. 78 mm	GL 45
<b>41340036</b>	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.

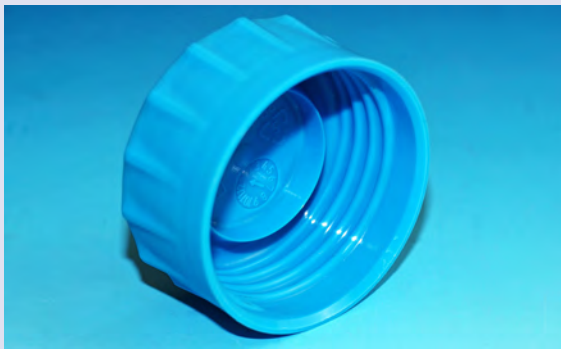
The slimmer YOUTILITY bottle shape allows a more optimal use, especially with smaller sized or gloved hands.

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
<b>41341014</b>	125 ml	approx. 124 mm	approx. 55 mm	GL 45
<b>41341018</b>	250 ml	approx. 158 mm	approx. 66 mm	GL 45
<b>41341024</b>	500 ml	approx. 193 mm	approx. 78 mm	GL 45
<b>41341036</b>	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

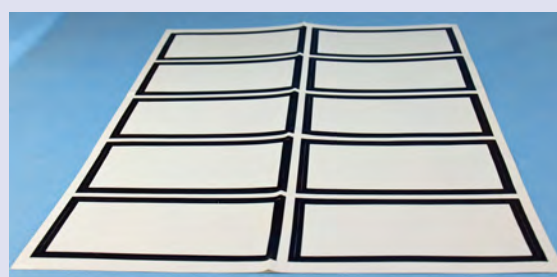
**41345010** Rectangular for bottles 36 x 70 mm, circular for screw caps 30 mm Ø



## Self-adhesive labels for inscription

White, non-fade plastic foil, resistant to chemicals, with black border

	for bottles	Dimensions
<b>41278001</b>	up to approx. 250 ml	approx. 74 x 37 mm
<b>41278002</b>	from approx. 500 ml	approx. 105 x 52 mm



## Protective coating for labels

	for article	for labels
<b>41278091</b>	41278001	approx. 74 x 37 mm
<b>41278092</b>	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
<b>41279010</b>	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
<b>41280006</b>	14.5	50 ml
<b>41280012</b>	14/23	100 ml
<b>41280018</b>	19/26	250 ml
<b>41280024</b>	24/29	500 ml
<b>41280030</b>	29/32	1000 ml
<b>41280036</b>	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
<b>41281006</b>	14.5	50 ml
<b>41281012</b>	14/23	100 ml
<b>41281018</b>	19/26	250 ml
<b>41281024</b>	24/29	500 ml
<b>41281030</b>	29/32	1000 ml
<b>41281036</b>	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
<b>41282006</b>	14.5	50 ml
<b>41282012</b>	14/23	100 ml
<b>41282018</b>	19/26	250 ml
<b>41282024</b>	24/29	500 ml
<b>41282030</b>	29/32	1000 ml
<b>41282036</b>	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
<b>41283006</b>	14.5	50 ml
<b>41283012</b>	14/23	100 ml
<b>41283019</b>	19/26	250 ml
<b>41283024</b>	24/29	500 ml
<b>41283030</b>	29/32	1000 ml
<b>41283036</b>	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
<b>41284006</b>	24/29	50 ml
<b>41284012</b>	29/32	100 ml
<b>41284018</b>	34/35	250 ml
<b>41284024</b>	45/40	500 ml
<b>41284030</b>	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
<b>41285006</b>	24/20	50 ml
<b>41285012</b>	29/22	100 ml
<b>41285018</b>	34/40	250 ml
<b>41285024</b>	45/27	500 ml
<b>41285030</b>	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
<b>41286006</b>	24/29	50 ml
<b>41286012</b>	29/32	100 ml
<b>41286018</b>	34/35	250 ml
<b>41286024</b>	45/40	500 ml
<b>41286030</b>	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
<b>41287006</b>	24/20	50 ml
<b>41287012</b>	29/22	100 ml
<b>41287018</b>	34/40	250 ml
<b>41287024</b>	45/27	500 ml
<b>41287030</b>	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
<b>41301006</b>	50 ml	approx. 41.5 mm	approx. 77 mm
<b>41301012</b>	100 ml	approx. 51.5 mm	approx. 103 mm
<b>41301018</b>	250 ml	approx. 69 mm	approx. 131 mm
<b>41301024</b>	500 ml	approx. 85 mm	approx. 163 mm
<b>41301030</b>	1000 ml	approx. 106.5 mm	approx. 199 mm



### Amber glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
<b>41303006</b>	50 ml	approx. 41.5 mm	approx. 77 mm
<b>41303012</b>	100 ml	approx. 51.5 mm	approx. 103 mm
<b>41303018</b>	250 ml	approx. 69 mm	approx. 131 mm
<b>41303024</b>	500 ml	approx. 85 mm	approx. 163 mm
<b>41303030</b>	1000 ml	approx. 106.5 mm	approx. 199 mm
<b>41303036</b>	2000 ml	approx. 132 mm	approx. 245 mm



## Wide neck bottles

### Clear glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
<b>41311006</b>	50 ml	approx. 41.5 mm	approx. 76 mm
<b>41311012</b>	100 ml	approx. 51.5 mm	approx. 95 mm
<b>41311018</b>	250 ml	approx. 69 mm	approx. 128 mm
<b>41311024</b>	500 ml	approx. 85 mm	approx. 162 mm
<b>41311030</b>	1000 ml	approx. 106.5 mm	approx. 187 mm



### Amber glass

with ground-in glass stopper

	Capacity	Ø	Height without stopper
<b>41313006</b>	50 ml	approx. 41.5 mm	approx. 76 mm
<b>41313012</b>	100 ml	approx. 51.5 mm	approx. 95 mm
<b>41313018</b>	250 ml	approx. 69 mm	approx. 128 mm
<b>41313024</b>	500 ml	approx. 85 mm	approx. 162 mm
<b>41313030</b>	1000 ml	approx. 106.5 mm	approx. 187 mm
<b>41313036</b>	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
<b>41318006</b>	50 ml	approx. 44 mm	approx. 92 mm
<b>41318012</b>	100 ml	approx. 55 mm	approx. 106 mm





### Amber glass

with flat glass stopper

	Capacity	Ø	Height
<b>41319006</b>	50 ml	approx. 44 mm	approx. 92 mm
<b>41319012</b>	100 ml	approx. 55 mm	approx. 106 mm



### Bottles made of polyethylene, with screw cap

#### Narrow neck

LDPE, flexible

	Capacity	Thread
<b>49100006</b>	30 ml	GL 14
<b>49100012</b>	50 ml	GL 18
<b>49100018</b>	100 ml	GL 18
<b>49100024</b>	250 ml	GL 25
<b>49100030</b>	500 ml	GL 25
<b>49100036</b>	1000 ml	GL 28
<b>49100042</b>	2000 ml	GL 28
<b>49100048</b>	5000 ml	GL 40

49100048 with handle



#### Wide neck

LDPE, flexible

	Capacity	Thread
<b>49101012</b>	50 ml	GL 32
<b>49101018</b>	100 ml	GL 32
<b>49101024</b>	250 ml	GL 40
<b>49101030</b>	500 ml	GL 50
<b>49101036</b>	1000 ml	GL 65
<b>49101042</b>	2000 ml	GL 65

## Washing bottles made of polyethylene

LDPE, flexible, with spray tube

	Capacity	Thread
<b>49102018</b>	100 ml	GL 18
<b>49102024</b>	250 ml	GL 25
<b>49102030</b>	500 ml	GL 25
<b>49102036</b>	1000 ml	GL 28



## Bottles made of polypropylene, with conical shoulder

### Narrow neck

with interchangeable stopper made of polyethylene

	Capacity	Joint size
<b>49108018</b>	100 ml	14/23
<b>49108024</b>	250 ml	19/26
<b>49108030</b>	500 ml	24/29
<b>49108036</b>	1000 ml	29/32



## Dropping bottles made of polyethylene, with dropping tip

LDPE, with attached cap

	Capacity	Thread
<b>49103004</b>	10 ml	GL 14
<b>49103008</b>	20 ml	GL 14
<b>49103012</b>	30 ml	GL 14
<b>49103016</b>	50 ml	GL 18
<b>49103020</b>	100 ml	GL 18
<b>49103024</b>	250 ml	GL 25
<b>49103028</b>	500 ml	GL 25



## Bottles made of polyethylene, high shoulder

LDPE, narrow neck, with screw cap

	Capacity	Thread
<b>49105012</b>	50 ml	GL 18
<b>49105018</b>	100 ml	GL 18
<b>49105024</b>	250 ml	GL 25
<b>49105030</b>	500 ml	GL 25
<b>49105036</b>	1000 ml	GL 28





### Square bottles made of polyethylene, with screw cap, narrow neck

HDPE

	Capacity	Thread
<b>49116012</b>	50 ml	GL 18
<b>49116018</b>	100 ml	GL 25
<b>49116024</b>	250 ml	GL 25
<b>49116030</b>	500 ml	GL 25
<b>49116036</b>	1000 ml	GL 25



### Square bottles made of polyethylene, with screw cap, wide neck

HDPE

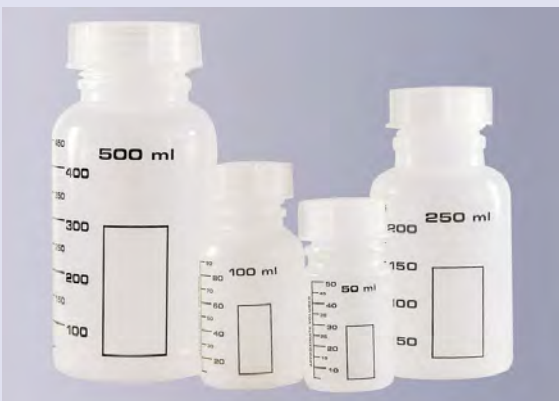
	Capacity	Thread
<b>49116924</b>	250 ml	GL 50
<b>49116930</b>	500 ml	GL 65
<b>49116936</b>	1000 ml	GL 65



### Bottles made of LDPE, narrow neck, brown

with screw cap, contents protected against UV radiation, for light-sensitive liquids

	Capacity	Thread
<b>49112018</b>	100 ml	GL 18
<b>49112024</b>	250 ml	GL 25
<b>49112030</b>	500 ml	GL 25
<b>49112036</b>	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
<b>49115012</b>	50 ml	GL 32
<b>49115018</b>	100 ml	GL 32
<b>49115024</b>	250 ml	GL 40
<b>49115030</b>	500 ml	GL 50
<b>49115036</b>	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
<b>49125020</b>	125 ml	350 pieces	approx. 92 x 50 mm Ø
<b>49125024</b>	250 ml	216 pieces	approx. 115 x 50 mm Ø
<b>49125030</b>	500 ml	120 pieces	approx. 145 x 50 mm Ø
<b>49125036</b>	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
<b>49126020</b>	125 ml	350 pieces	approx. 92 x 50 mm Ø
<b>49126024</b>	250 ml	216 pieces	approx. 115 x 50 mm Ø
<b>49126030</b>	500 ml	120 pieces	approx. 145 x 50 mm Ø
<b>49126036</b>	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
<b>44116010</b>	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
<b>49117020</b>	2000 ml	max. +70 °C/+158 °F



### Urine collecting bottles made of polyethylene

HDPE, with screw cap and approximate scale

	Scale up to	Capacity
<b>49117010</b>	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
<b>49118010</b>	2000 ml	2000 ml

## Aspirator bottles

### Aspirator bottles made of polyethylene, narrow neck

with stopcock, handle and screw cap

	Capacity	Ø	Height
<b>49130005</b>	5 litres	approx. 165 mm	approx. 335 mm
<b>49130010</b>	10 litres	approx. 210 mm	approx. 420 mm
<b>49130025</b>	25 litres	approx. 280 mm	approx. 525 mm
<b>49130050</b>	50 litres	approx. 365 mm	approx. 605 mm

**49130025** and **49130050** with two handles



## Spare stopcock

made of polypropylene

	Opening	Connection
<b>49131010</b>	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
<b>41929024</b>	50 ml	approx. 38 mm	approx. 70 mm
<b>41929030</b>	100 ml	approx. 48 mm	approx. 80 mm
<b>41929036</b>	150 ml	approx. 54 mm	approx. 95 mm
<b>41929042</b>	250 ml	approx. 60 mm	approx. 120 mm
<b>41929048</b>	400 ml	approx. 70 mm	approx. 130 mm
<b>41929054</b>	600 ml	approx. 80 mm	approx. 150 mm
<b>41929060</b>	800 ml	approx. 90 mm	approx. 175 mm
<b>41929066</b>	1000 ml	approx. 95 mm	approx. 180 mm
<b>41929072</b>	2000 ml	approx. 120 mm	approx. 240 mm



### Beakers, borosilicate glass 3.3, tall form

DIN 12331, with scale

	Capacity	Diameter	Height
<b>41929118</b>	25 ml	approx. 28 mm	approx. 60 mm
<b>41929124</b>	50 ml	approx. 38 mm	approx. 70 mm
<b>41929130</b>	100 ml	approx. 48 mm	approx. 80 mm
<b>41929136</b>	150 ml	approx. 54 mm	approx. 95 mm
<b>41929142</b>	250 ml	approx. 60 mm	approx. 120 mm
<b>41929148</b>	400 ml	approx. 70 mm	approx. 130 mm
<b>41929154</b>	600 ml	approx. 80 mm	approx. 150 mm
<b>41929160</b>	800 ml	approx. 90 mm	approx. 175 mm
<b>41929166</b>	1000 ml	approx. 95 mm	approx. 180 mm
<b>41929172</b>	2000 ml	approx. 120 mm	approx. 240 mm



### Beakers, DURAN® borosilicate glass 3.3, low form

DIN 12331, with scale

	Capacity	Diameter	Height
<b>41930004</b>	25 ml	approx. 34 mm	approx. 50 mm
<b>41930008</b>	50 ml	approx. 42 mm	approx. 60 mm
<b>41930012</b>	100 ml	approx. 50 mm	approx. 70 mm
<b>41930016</b>	150 ml	approx. 60 mm	approx. 80 mm
<b>41930020</b>	250 ml	approx. 70 mm	approx. 95 mm
<b>41930024</b>	400 ml	approx. 80 mm	approx. 110 mm
<b>41930028</b>	600 ml	approx. 90 mm	approx. 125 mm
<b>41930032</b>	800 ml	approx. 100 mm	approx. 135 mm
<b>41930036</b>	1000 ml	approx. 105 mm	approx. 145 mm
<b>41930040</b>	2000 ml	approx. 132 mm	approx. 185 mm
<b>41930044</b>	3000 ml	approx. 152 mm	approx. 210 mm
<b>41930048</b>	5000 ml	approx. 170 mm	approx. 270 mm

## Beakers, borosilicate glass 3.3, low form

DIN 12331, with scale

	Capacity	Diameter	Height
<b>41930104</b>	25 ml	approx. 34 mm	approx. 50 mm
<b>41930108</b>	50 ml	approx. 42 mm	approx. 60 mm
<b>41930112</b>	100 ml	approx. 50 mm	approx. 70 mm
<b>41930116</b>	150 ml	approx. 60 mm	approx. 80 mm
<b>41930120</b>	250 ml	approx. 70 mm	approx. 95 mm
<b>41930124</b>	400 ml	approx. 80 mm	approx. 110 mm
<b>41930128</b>	600 ml	approx. 90 mm	approx. 125 mm
<b>41930132</b>	800 ml	approx. 100 mm	approx. 135 mm
<b>41930136</b>	1000 ml	approx. 105 mm	approx. 145 mm
<b>41930140</b>	2000 ml	approx. 132 mm	approx. 185 mm
<b>41930144</b>	3000 ml	approx. 152 mm	approx. 210 mm
<b>41930148</b>	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
<b>41934006</b>	10 ml	2 ml	approx. 25 mm	approx. 35 mm
<b>41934012</b>	25 ml	1 ml	approx. 31 mm	approx. 47 mm
<b>41934018</b>	50 ml	5 ml	approx. 40 mm	approx. 60 mm
<b>41934024</b>	100 ml	5 ml	approx. 49 mm	approx. 70 mm
<b>41934030</b>	150 ml	5 ml	approx. 56 mm	approx. 80 mm
<b>41934036</b>	250 ml	5 ml	approx. 68 mm	approx. 94 mm
<b>41934042</b>	400 ml	10 ml	approx. 77 mm	approx. 109 mm
<b>41934048</b>	600 ml	25 ml	approx. 91 mm	approx. 125 mm
<b>41934060</b>	1000 ml	50 ml	approx. 102 mm	approx. 149 mm
<b>41934066</b>	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
<b>41935006</b>	10 ml	2 ml	approx. 25 mm	approx. 35 mm
<b>41935012</b>	25 ml	1 ml	approx. 31 mm	approx. 47 mm
<b>41935018</b>	50 ml	5 ml	approx. 40 mm	approx. 60 mm
<b>41935024</b>	100 ml	5 ml	approx. 49 mm	approx. 70 mm
<b>41935030</b>	150 ml	5 ml	approx. 56 mm	approx. 80 mm
<b>41935036</b>	250 ml	5 ml	approx. 68 mm	approx. 94 mm
<b>41935042</b>	400 ml	10 ml	approx. 77 mm	approx. 109 mm
<b>41935048</b>	600 ml	25 ml	approx. 91 mm	approx. 125 mm
<b>41935060</b>	1000 ml	50 ml	approx. 102 mm	approx. 149 mm
<b>41935066</b>	2000 ml	100 ml	approx. 133 mm	approx. 183 mm
<b>41935072</b>	3000 ml	200 ml	approx. 174 mm	approx. 217 mm
<b>41935078</b>	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
<b>41936010</b>	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
<b>41940012</b>	25 ml	approx. 22 mm	approx. 42 mm	approx. 75 mm
<b>41940018</b>	50 ml	approx. 22 mm	approx. 51 mm	approx. 90 mm
<b>41940024</b>	100 ml	approx. 22 mm	approx. 64 mm	approx. 105 mm
<b>41940030</b>	200 ml	approx. 34 mm	approx. 79 mm	approx. 131 mm
<b>41940036</b>	250 ml	approx. 34 mm	approx. 85 mm	approx. 145 mm
<b>41940042</b>	300 ml	approx. 34 mm	approx. 87 mm	approx. 156 mm
<b>41940048</b>	500 ml	approx. 34 mm	approx. 105 mm	approx. 180 mm
<b>41940054</b>	1000 ml	approx. 42 mm	approx. 131 mm	approx. 220 mm
<b>41940060</b>	2000 ml	approx. 50 mm	approx. 166 mm	approx. 280 mm
<b>41940066</b>	3000 ml	approx. 51 mm	approx. 187 mm	approx. 310 mm
<b>41940072</b>	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
<b>41940112</b>	25 ml	approx. 22 mm	approx. 42 mm	approx. 75 mm
<b>41940118</b>	50 ml	approx. 22 mm	approx. 51 mm	approx. 90 mm
<b>41940124</b>	100 ml	approx. 22 mm	approx. 64 mm	approx. 105 mm
<b>41940130</b>	200 ml	approx. 34 mm	approx. 79 mm	approx. 131 mm
<b>41940136</b>	250 ml	approx. 34 mm	approx. 85 mm	approx. 145 mm
<b>41940142</b>	300 ml	approx. 34 mm	approx. 87 mm	approx. 156 mm
<b>41940148</b>	500 ml	approx. 34 mm	approx. 105 mm	approx. 180 mm
<b>41940154</b>	1000 ml	approx. 42 mm	approx. 131 mm	approx. 220 mm
<b>41940166</b>	3000 ml	approx. 51 mm	approx. 187 mm	approx. 310 mm
<b>41940172</b>	5000 ml	approx. 51 mm	approx. 220 mm	approx. 365 mm

## Erlenmeyer flasks, DURAN® borosilicate glass 3.3, wide neck

DIN 12385, with scale

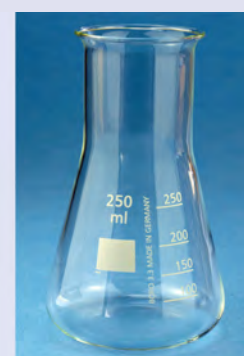
	Capacity	Neck diameter	Diameter	Height
<b>41941012</b>	25 ml	approx. 31 mm	approx. 43 mm	approx. 70 mm
<b>41941018</b>	50 ml	approx. 34 mm	approx. 51 mm	approx. 85 mm
<b>41941024</b>	100 ml	approx. 34 mm	approx. 64 mm	approx. 105 mm
<b>41941030</b>	200 ml	approx. 50 mm	approx. 79 mm	approx. 131 mm
<b>41941036</b>	250 ml	approx. 50 mm	approx. 85 mm	approx. 140 mm
<b>41941042</b>	300 ml	approx. 50 mm	approx. 87 mm	approx. 156 mm
<b>41941048</b>	500 ml	approx. 50 mm	approx. 105 mm	approx. 175 mm
<b>41941054</b>	1000 ml	approx. 50 mm	approx. 131 mm	approx. 220 mm
<b>41941060</b>	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
<b>41941112</b>	25 ml	approx. 31 mm	approx. 43 mm	approx. 70 mm
<b>41941118</b>	50 ml	approx. 34 mm	approx. 51 mm	approx. 85 mm
<b>41941124</b>	100 ml	approx. 34 mm	approx. 64 mm	approx. 105 mm
<b>41941130</b>	200 ml	approx. 50 mm	approx. 79 mm	approx. 131 mm
<b>41941136</b>	250 ml	approx. 50 mm	approx. 85 mm	approx. 140 mm
<b>41941142</b>	300 ml	approx. 50 mm	approx. 87 mm	approx. 156 mm
<b>41941148</b>	500 ml	approx. 50 mm	approx. 105 mm	approx. 175 mm
<b>41941154</b>	1000 ml	approx. 50 mm	approx. 131 mm	approx. 220 mm
<b>41941160</b>	2000 ml	approx. 72 mm	approx. 153 mm	approx. 276 mm
<b>41941166</b>	3000 ml	approx. 78 mm	approx. 190 mm	approx. 320 mm
<b>41941172</b>	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
<b>41943124</b>	100 ml	approx. 100 mm	approx. 64 mm	GL 25
<b>41943136</b>	250 ml	approx. 140 mm	approx. 85 mm	GL 32
<b>41943148</b>	500 ml	approx. 175 mm	approx. 105 mm	GL 32
<b>41943154</b>	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
<b>42765005</b>	5 ml : 0.1 ml	approx. 110 x 12 mm Ø
<b>42765010</b>	10 ml : 0.1 ml	approx. 160 x 13 mm Ø
<b>42765020</b>	20 ml : 0.1 ml	approx. 200 x 15 mm Ø
<b>42765025</b>	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
<b>42766010</b>	10 ml : 0.1 ml	approx. 1.0 mm	approx. 180 x 13 mm Ø
<b>42766020</b>	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
<b>42768002</b>	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
<b>42769045</b>	200 pieces	approx. 100 x 16 mm Ø
<b>42769051</b>	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
<b>42770021</b>	100 pieces	approx. 0.5 mm	approx. 10 mm	approx. 100 mm
<b>42770027</b>	100 pieces	approx. 0.5 mm	approx. 12 mm	approx. 100 mm
<b>42770033</b>	100 pieces	approx. 0.6 mm	approx. 14 mm	approx. 130 mm
<b>42770045</b>	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 100 mm
<b>42770048</b>	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 120 mm
<b>42770051</b>	100 pieces	approx. 0.5 mm	approx. 16 mm	approx. 160 mm
<b>42770057</b>	100 pieces	approx. 0.5 mm	approx. 18 mm	approx. 160 mm
<b>42770060</b>	100 pieces	approx. 0.5 mm	approx. 18 mm	approx. 180 mm
<b>42770063</b>	100 pieces	approx. 0.5 mm	approx. 20 mm	approx. 180 mm
<b>42770069</b>	50 pieces	approx. 0.8 mm	approx. 24 mm	approx. 160 mm
<b>42770072</b>	50 pieces	approx. 0.8 mm	approx. 24 mm	approx. 200 mm
<b>42770078</b>	50 pieces	approx. 0.8 mm	approx. 30 mm	approx. 200 mm
<b>42770251</b>	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
<b>42771015</b>	100 pieces	approx. 0.45 mm	approx. 70 mm	approx. 8 mm
<b>42771021</b>	100 pieces	approx. 0.45 mm	approx. 100 mm	approx. 10 mm
<b>42771027</b>	100 pieces	approx. 0.45 mm	approx. 100 mm	approx. 12 mm
<b>42771033</b>	100 pieces	approx. 0.45 mm	approx. 130 mm	approx. 14 mm
<b>42771045</b>	100 pieces	approx. 0.6 mm	approx. 100 mm	approx. 16 mm
<b>42771051</b>	100 pieces	approx. 0.6 mm	approx. 160 mm	approx. 16 mm
<b>42771060</b>	100 pieces	approx. 0.55 mm	approx. 180 mm	approx. 18 mm
<b>42771063</b>	100 pieces	approx. 0.55 mm	approx. 180 mm	approx. 20 mm
<b>42771075</b>	100 pieces	approx. 0.55 mm	approx. 120 mm	approx. 20 mm
<b>42771251</b>	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
<b>42775003</b>	500 pieces	approx. 0.65 mm	approx. 50 mm	approx. 6-6.5 mm
<b>42775006</b>	2000 pieces	approx. 0.7 mm	approx. 27 mm	approx. 7 mm
<b>42775009</b>	100 pieces	approx. 0.65 mm	approx. 35 mm	approx. 6 mm
<b>42775012</b>	100 pieces	approx. 0.7 mm	approx. 40 mm	approx. 8 mm
<b>42775015</b>	200 pieces	approx. 0.9 mm	approx. 80 mm	approx. 10-11 mm
<b>42775018</b>	100 pieces	approx. 0.9 mm	approx. 70 mm	approx. 10-11 mm
<b>42775021</b>	100 pieces	approx. 0.9 mm	approx. 100 mm	approx. 10 mm
<b>42775024</b>	200 pieces	approx. 0.7 mm	approx. 75 mm	approx. 12 mm
<b>42775027</b>	100 pieces	approx. 0.7 mm	approx. 100 mm	approx. 12 mm
<b>42775030</b>	100 pieces	approx. 0.9 mm	approx. 100 mm	approx. 14 mm
<b>42775033</b>	100 pieces	approx. 0.9 mm	approx. 130 mm	approx. 14 mm
<b>42775036</b>	100 pieces	approx. 0.9 mm	approx. 75 mm	approx. 15 mm
<b>42775039</b>	100 pieces	approx. 0.9 mm	approx. 85 mm	approx. 15 mm
<b>42775042</b>	100 pieces	approx. 0.9 mm	approx. 135 mm	approx. 15 mm
<b>42775045</b>	100 pieces	approx. 0.8 mm	approx. 100 mm	approx. 16 mm
<b>42775051</b>	100 pieces	approx. 0.8 mm	approx. 160 mm	approx. 16 mm
<b>42775054</b>	100 pieces	approx. 1 mm	approx. 100 mm	approx. 18 mm
<b>42775060</b>	100 pieces	approx. 1 mm	approx. 180 mm	approx. 18 mm
<b>42775251</b>	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

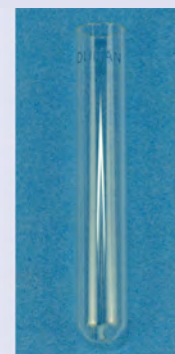
**42782051** Dimensions approx. 160 x 16 mm Ø



## Test tubes, DURAN® borosilicate glass 3.3, rimless

Round bottom, heavy wall

	Wall thickness	Dimensions
<b>42787021</b>	approx. 1.0 mm	approx. 100 x 10 mm Ø
<b>42787024</b>	approx. 1.0 mm	approx. 75 x 12 mm Ø
<b>42787027</b>	approx. 1.0 mm	approx. 100 x 12 mm Ø
<b>42787033</b>	approx. 1.0 mm	approx. 130 x 14 mm Ø
<b>42787048</b>	approx. 1.2 mm	approx. 150 x 16 mm Ø
<b>42787051</b>	approx. 1.2 mm	approx. 160 x 16 mm Ø
<b>42787054</b>	approx. 1.2 mm	approx. 150 x 19 mm Ø
<b>42787060</b>	approx. 1.2 mm	approx. 180 x 18 mm Ø

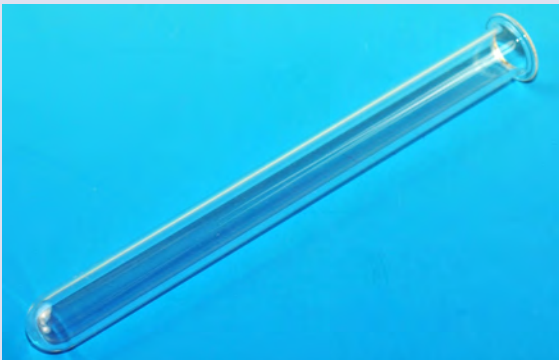




### Test tubes, DURAN® borosilicate glass 3.3, with rim

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
<b>42785004</b>	200 pieces	approx. 3 ml	approx. 30 x 19 mm Ø
<b>42785008</b>	200 pieces	approx. 5 ml	approx. 40 x 19 mm Ø
<b>42785012</b>	200 pieces	approx. 10 ml	approx. 45 x 22 mm Ø
<b>42785016</b>	200 pieces	approx. 25 ml	approx. 50 x 30 mm Ø
<b>42785020</b>	200 pieces	approx. 30 ml	approx. 75 x 28 mm Ø
<b>42785024</b>	200 pieces	approx. 40 ml	approx. 80 x 30 mm Ø
<b>42785028</b>	200 pieces	approx. 50 ml	approx. 100 x 30 mm Ø
<b>42785032</b>	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

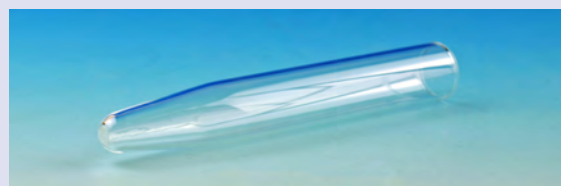
	Brush Ø	Total length	Brush
<b>40937010</b>	14 mm top - 30 mm below	approx. 270 mm	approx. 80 mm long



## Centrifuge tubes, conical, rimless, ungraduated

Packing: 100 pieces/box

	Capacity	Dimensions	Material
<b>40938007</b>	15 ml	approx. 112 x 17 mm	DURAN® borosilicate glass 3.3
<b>40938010</b>	15 ml	approx. 112 x 17 mm	AR-Glas® (soda glass)
<b>40938014</b>	14.5 ml	approx. 100 x 17 mm	AR-Glas® (soda glass)
<b>40938021</b>	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
<b>40939001</b>	10 ml: 0.1	AR-Glas® (soda glass)
<b>40939002</b>	15 ml: 0.1	AR-Glas® (soda glass)
<b>40939301</b>	10 ml: 0.1	DURAN® borosilicate glass 3.3
<b>40939302</b>	15 ml: 0.1	DURAN® borosilicate glass 3.3



### Centrifuge tubes, conical, with rim, ungraduated

Packing: 100 pieces/box

	Capacity	Material	Dimensions
<b>40940010</b>	15 ml	AR-Glas® (soda glass)	approx. 112 x 17 mm
<b>40940014</b>	14.5 ml	AR-Glas® (soda glass)	approx. 100 x 17 mm
<b>40940310</b>	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
<b>40942001</b>	10 ml : 0.1	AR-Glas® (soda glass)
<b>40942002</b>	15 ml : 0.1	AR-Glas® (soda glass)
<b>40942301</b>	10 ml : 0.1	DURAN® borosilicate glass 3.3
<b>40942302</b>	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

<b>40943010</b>	AR-Glas® (soda glass)
<b>40943310</b>	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
<b>40944010</b>	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
<b>40946001</b>	10-15 ml	approx. 98 x 17 mm
<b>40946002</b>	10-15 ml	approx. 107 x 17 mm
<b>40946003</b>	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
<b>40947001</b>	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

<b>40948001</b>	Dimensions approx. 98 x 17 mm
<b>40948002</b>	Dimensions approx. 107 x 17 mm



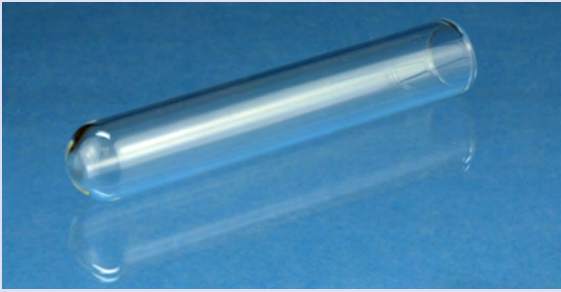
### Centrifuge tubes, short conical bottom, graduated, DURAN® borosilicate glass 3.3

Cylindrical, rimless, fused white graduation "ASSISTENT-PERMANENT"

Packing: 10 pieces

	Graduation	Dimensions
<b>40949001</b>	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
<b>40950001</b>	10-15 ml	100 pieces	approx. 98 x 17 mm
<b>40950002</b>	10-15 ml	100 pieces	approx. 107 x 17 mm
<b>40950003</b>	25-30 ml	100 pieces	approx. 100 x 24-25 mm
<b>40950004</b>	50-55 ml	50 pieces	approx. 98 x 33-35 mm
<b>40950005</b>	70-100 ml	40 pieces	approx. 115 x 40 mm
<b>40950016</b>	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
<b>40951001</b>	-	10 pieces	10-15 ml	approx. 98 x 17 mm
<b>40951002</b>	-	10 pieces	10-15 ml	approx. 107 x 17 mm
<b>40951003</b>	-	10 pieces	25 ml	approx. 100 x 24/25 mm
<b>40951004</b>	-	5 pieces	50 ml	approx. 98 x 33-35 mm



### Rubber stoppers for centrifuge tubes

**40955010** suitable for 17 mm Ø (10-15 ml)



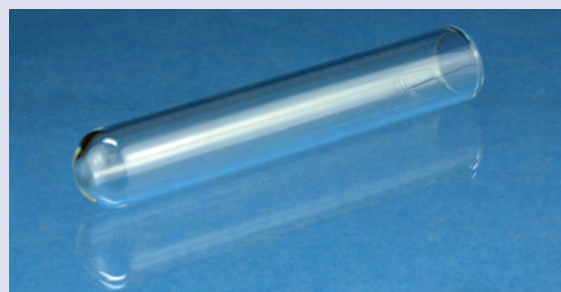
### Cellulose stoppers for centrifuge tubes and test tubes

**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
<b>40958001</b>	10-15 ml	100 pieces	approx. 98 x 17 mm
<b>40958002</b>	10-15 ml	100 pieces	approx. 107 x 17 mm
<b>40958003</b>	25-30 ml	100 pieces	approx. 100 x 24/25 mm
<b>40958004</b>	50-55 ml	50 pieces	approx. 98 x 33-35 mm
<b>40958016</b>	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
<b>40959001</b>	0.2 ml	10 pieces	10-15 ml	approx. 98 x 17 mm
<b>40959002</b>	0.2 ml	10 pieces	10-15 ml	approx. 107 x 17 mm
<b>40959003</b>	0.5 ml	10 pieces	25 ml	approx. 100 x 24/25 mm
<b>40959004</b>	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
<b>40970010</b>	10-15 ml	100 pieces	approx. 112 x 17 mm

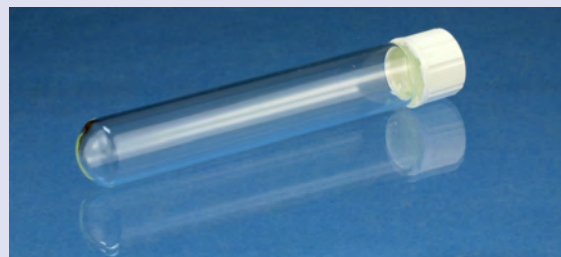


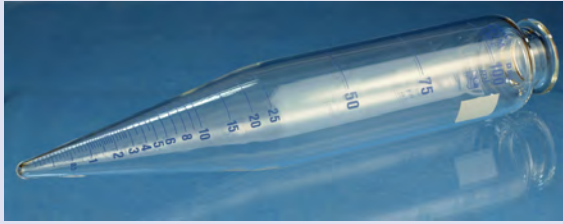
## Centrifuge tubes with screw cap, round bottom, AR-Glas® (soda glass)

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
<b>40976010</b>	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
<b>40895010</b>	approx. 100 mm	approx. 16 mm
<b>40895012</b>	approx. 125 mm	approx. 15 mm
<b>40895015</b>	approx. 150 mm	approx. 20 mm



### with 2 stopcock stoppers

Clear glass, with two side arms

	Joint size	Length	Outside Ø
<b>40896010</b>	12/21	approx. 100 mm	approx. 16 mm
<b>40896012</b>	12/21	approx. 125 mm	approx. 16 mm
<b>40896015</b>	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
<b>41150006</b>	100 ml	30 ml	Joint size 29/32
<b>41150012</b>	100 ml	70 ml	Joint size 34/35
<b>41150018</b>	250 ml	100 ml	Joint size 45/40
<b>41150024</b>	500 ml	150 ml	Joint size 45/40
<b>41150030</b>	500 ml	200 ml	Joint size 45/40
<b>41150036</b>	500 ml	250 ml	Joint size 45/40

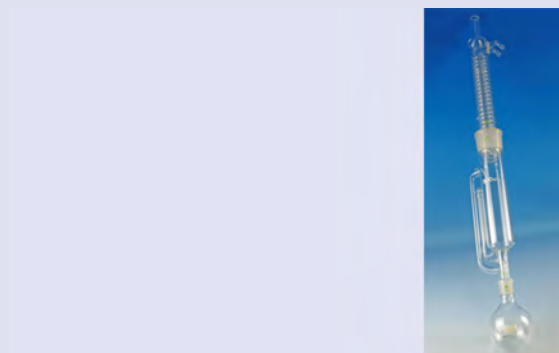


### with Dimroth condenser

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
<b>41151006</b>	100 ml	30 ml	Joint size 29/32
<b>41151012</b>	100 ml	70 ml	Joint size 34/35
<b>41151018</b>	250 ml	100 ml	Joint size 45/40
<b>41151024</b>	500 ml	150 ml	Joint size 45/40
<b>41151030</b>	500 ml	200 ml	Joint size 45/40
<b>41151036</b>	500 ml	250 ml	Joint size 45/40
<b>41151042</b>	500 ml	300 ml	Joint size 60/46
<b>41151048</b>	1000 ml	500 ml	Joint size 60/46
<b>41151054</b>	2000 ml	1000 ml	Joint size 71/51

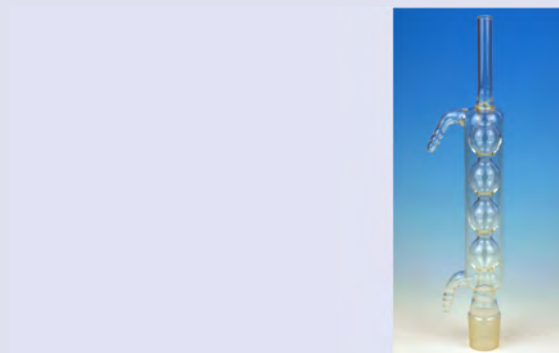


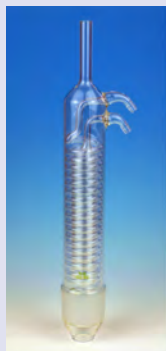
## Spare parts for extraction apparatus

### Allihn condensers

DURAN® borosilicate glass 3.3

	suitable for	Condenser
<b>41153029</b>	capacity 30 ml	Joint size 29/32
<b>41153034</b>	capacity 70 ml	Joint size 34/35
<b>41153045</b>	capacity 100 ml	Joint size 45/40

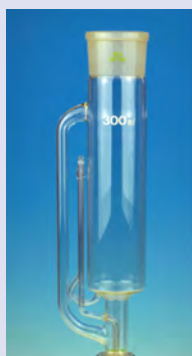




### Dimroth condensers

DURAN® borosilicate glass 3.3

	suitable for	Condenser
<b>41154029</b>	capacity 30 ml	Joint size 29/32
<b>41154034</b>	capacity 70 ml	Joint size 34/35
<b>41154045</b>	capacity 100 ml	Joint size 45/40
<b>41154060</b>	capacity 500 ml	Joint size 60/46
<b>41154071</b>	capacity 1000 ml	Joint size 71/51



### Extractors

DURAN® borosilicate glass 3.3, with cone joint size 29/32

	Extraction capacity	Socket
<b>41155006</b>	30 ml	Joint size 29/32
<b>41155012</b>	70 ml	Joint size 34/35
<b>41155018</b>	100 ml	Joint size 45/40
<b>41155024</b>	150 ml	Joint size 45/40
<b>41155030</b>	200 ml	Joint size 45/40
<b>41155036</b>	250 ml	Joint size 45/40
<b>41155042</b>	300 ml	Joint size 60/46
<b>41155048</b>	500 ml	Joint size 60/46
<b>41155054</b>	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
<b>41913006</b>	29/32	50 ml
<b>41913008</b>	14/23	50 ml
<b>41913010</b>	19/26	50 ml
<b>41913012</b>	29/32	100 ml
<b>41913014</b>	14/23	100 ml
<b>41913015</b>	19/26	100 ml
<b>41913018</b>	29/32	250 ml
<b>41913024</b>	29/32	500 ml
<b>41913030</b>	29/32	1000 ml
<b>41913036</b>	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
<b>41982008</b>	approx. 16 cm	Joint size 14/23
<b>41982016</b>	approx. 16 cm	Joint size 19/26
<b>41982024</b>	approx. 25 cm	Joint size 19/26
<b>41982032</b>	approx. 25 cm	Joint size 24/29
<b>41982040</b>	approx. 25 cm	Joint size 29/32
<b>41982048</b>	approx. 40 cm	Joint size 24/29
<b>41982056</b>	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
<b>41987008</b>	approx. 16 cm	Joint size 14/23
<b>41987016</b>	approx. 16 cm	Joint size 19/26
<b>41987024</b>	approx. 25 cm	Joint size 19/26
<b>41987032</b>	approx. 25 cm	Joint size 24/29
<b>41987040</b>	approx. 25 cm	Joint size 29/32
<b>41987048</b>	approx. 40 cm	Joint size 24/29
<b>41987056</b>	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
<b>41990008</b>	approx. 16 cm	Joint size 14/23
<b>41990016</b>	approx. 16 cm	Joint size 19/26
<b>41990024</b>	approx. 25 cm	Joint size 19/26
<b>41990032</b>	approx. 25 cm	Joint size 24/29
<b>41990040</b>	approx. 25 cm	Joint size 29/32
<b>41990048</b>	approx. 40 cm	Joint size 24/29
<b>41990056</b>	approx. 40 cm	Joint size 29/32

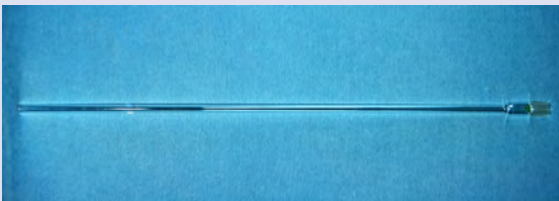


### Coil condensers according to Dimroth, DURAN® borosilicate glass 3.3, with 2 standard grounds

DIN 12591

with tubing connection at top

	Length	Cone and socket
<b>41996008</b>	approx. 16 cm	Joint size 14/23
<b>41996016</b>	approx. 16 cm	Joint size 19/26
<b>41996024</b>	approx. 25 cm	Joint size 19/26
<b>41996032</b>	approx. 25 cm	Joint size 24/29
<b>41996040</b>	approx. 25 cm	Joint size 29/32
<b>41996048</b>	approx. 40 cm	Joint size 24/29
<b>41996056</b>	approx. 40 cm	Joint size 29/32



### Condenser tube, DURAN® borosilicate glass 3.3, with standard ground

	Length	Cone
<b>41998010</b>	100 cm	Joint size 29/32



### Tubing connectors

#### made of glass, straight

both sides with olive

<b>44160008</b>	Dimensions approx. 80 x 8 mm
<b>44160010</b>	Dimensions approx. 100 x 10 mm
<b>44160012</b>	Dimensions approx. 120 x 12 mm



## Tubing connectors made of glass, T-shape

with olives

	Side length	Outside Ø
<b>44161006</b>	approx. 55 mm	approx. 6 mm
<b>44161008</b>	approx. 45 mm	approx. 8 mm
<b>44161010</b>	approx. 50 mm	approx. 10 mm



## made of polypropylene

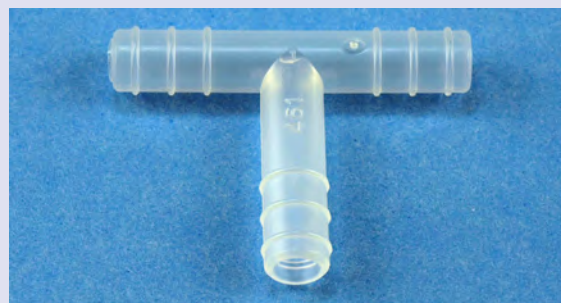
for tubing of different diameters

**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
<b>44173004</b>	approx. 15 mm	approx. 20 mm	approx. 3-4 mm
<b>44173006</b>	approx. 23 mm	approx. 30 mm	approx. 4-5 mm
<b>44173008</b>	approx. 31 mm	approx. 40 mm	approx. 6-7 mm
<b>44173010</b>	approx. 39 mm	approx. 55 mm	approx. 8-9 mm
<b>44173012</b>	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
<b>44174004</b>	approx. 14 mm	approx. 24 mm	approx. 3 mm
<b>44174006</b>	approx. 21 mm	approx. 35 mm	approx. 4-5 mm
<b>44174008</b>	approx. 34 mm	approx. 54 mm	approx. 6-7 mm
<b>44174010</b>	approx. 40 mm	approx. 64 mm	approx. 8-9 mm
<b>44174012</b>	approx. 47 mm	approx. 74 mm	approx. 10-11 mm

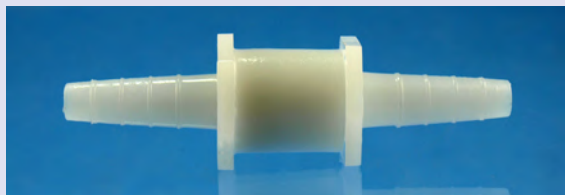


## Safety valves

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

<b>41877003</b>	Capacity 5 ml
<b>41877006</b>	Capacity 10 ml
<b>41877009</b>	Capacity 20 ml
<b>41877012</b>	Capacity 25 ml
<b>41877015</b>	Capacity 50 ml
<b>41877018</b>	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
<b>41160010</b>	approx. 0.7 l	approx. 10 cm
<b>41160015</b>	approx. 2.4 l	approx. 15 cm
<b>41160020</b>	approx. 5.8 l	approx. 20 cm
<b>41160025</b>	approx. 10.5 l	approx. 25 cm
<b>41160030</b>	approx. 18.5 l	approx. 30 cm



### with interchangeable cover with socket

DIN 12491, borosilicate glass 3.3, socket joint size 24/29

<b>41161015</b>	Inside Ø approx. 15 cm
<b>41161020</b>	Inside Ø approx. 20 cm
<b>41161025</b>	Inside Ø approx. 25 cm





### with interchangeable cover with socket and stopcock

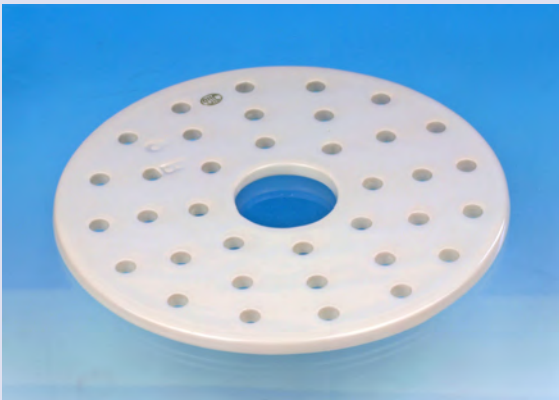
DIN 12491, borosilicate glass 3.3, socket joint size 24/29

	Inside Ø	Capacity
<b>41162015</b>	approx. 15 cm	approx. 2.4 l
<b>41162020</b>	approx. 20 cm	approx. 5.8 l
<b>41162025</b>	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
<b>41163015</b>	approx. 15 cm	approx. 2.4 l
<b>41163020</b>	approx. 20 cm	approx. 5.8 l
<b>41163025</b>	approx. 25 cm	approx. 10.5 l



### Porcelain plates for desiccators

with many small holes, without base

	suitable for upper inside Ø	Outside Ø
<b>41175010</b>	10 cm	approx. 90 mm
<b>41175015</b>	15 cm	approx. 140 mm
<b>41175020</b>	20 cm	approx. 189 mm
<b>41175025</b>	25 cm	approx. 241 mm
<b>41175030</b>	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

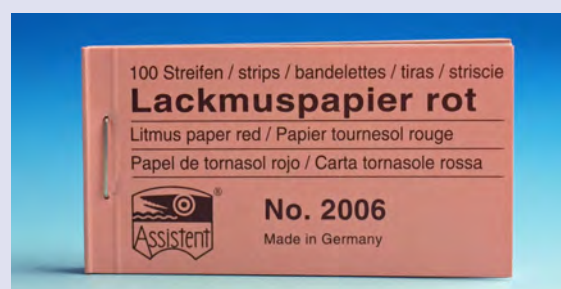
	Booklet	Test strips	Range
<b>42005010</b>	100 test strips	approx. 75 x 10 mm	pH 8.0 - 5.0



### Red

Colour changes from red to blue when the nature of the solution changes from acidic to alkaline

	Booklet	Test strips	Range
<b>42006010</b>	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
<b>42007010</b>	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/m<sup>2</sup>, 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/m<sup>2</sup>, 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

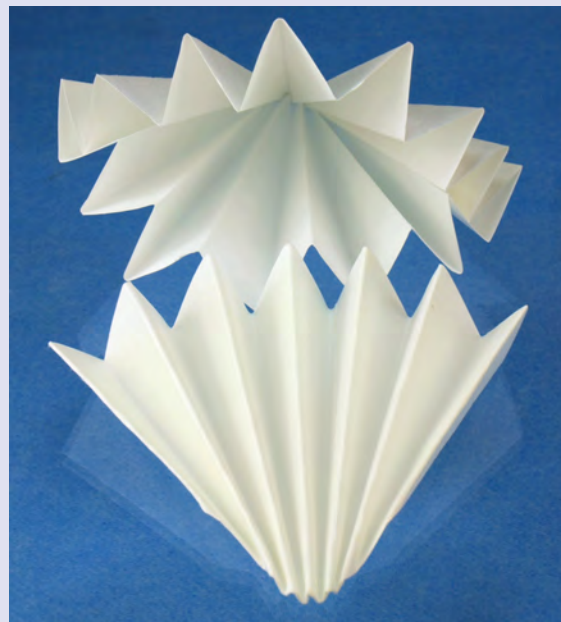
**41255018** Diameter approx. 185 mm

**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/m<sup>2</sup>, rate of filtration 22 s  
Packing: 100 pieces

<b>41260011</b>	Diameter approx. 110 mm
<b>41260012</b>	Diameter approx. 125 mm
<b>41260015</b>	Diameter approx. 150 mm
<b>41260018</b>	Diameter approx. 185 mm
<b>41260024</b>	Diameter approx. 240 mm
<b>41260027</b>	Diameter approx. 270 mm
<b>41260032</b>	Diameter approx. 320 mm
<b>41260038</b>	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.

<b>41265036</b>	Capacity 250 ml
<b>41265042</b>	Capacity 500 ml
<b>41265048</b>	Capacity 1000 ml
<b>41265054</b>	Capacity 2000 ml



## Assembly set for no. 41265...

with removable plastic hose connection, short and long screw and seals

<b>41266010</b>	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
<b>41270036</b>	250 ml	approx. 145 mm
<b>41270042</b>	500 ml	approx. 175 mm
<b>41270048</b>	1000 ml	approx. 230 mm
<b>41270054</b>	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
<b>41272006</b>	50 ml	approx. 10 mm	approx. 35 mm
<b>41272012</b>	75 ml	approx. 10 mm	approx. 45 mm
<b>41272030</b>	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
<b>41273024</b>	24 mm	28 mm	30 ml
<b>41273050</b>	50 mm	54 mm	250 ml
<b>41273090</b>	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

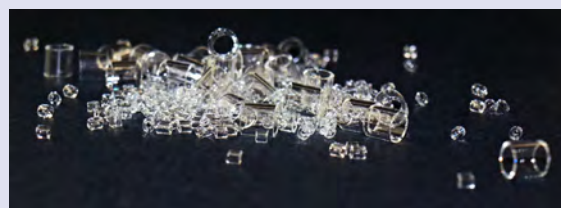
**41400005** Dimensions approx. 5 x 5 mm

**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

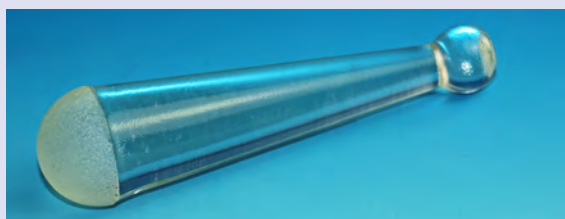


## Mortars

### made of borosilicate glass 3.3

Rough inside, with spout

	Capacity	Height	Outside Ø
<b>47028008</b>	approx. 125 ml	approx. 60 mm	approx. 80 mm
<b>47028010</b>	approx. 225 ml	approx. 75 mm	approx. 100 mm
<b>47028012</b>	approx. 400 ml	approx. 90 mm	approx. 120 mm
<b>47028015</b>	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
<b>47029008</b>	110 mm	28 mm	80 mm
<b>47029010</b>	130 mm	31 mm	100 mm
<b>47029012</b>	150 mm	36 mm	120 mm
<b>47029015</b>	180 mm	40 mm	150 mm



## Mortars and pestles

### Mortars made of melamine

	Diameter	Capacity	Height
<b>47032001</b>	approx. 12 cm	approx. 400 ml	approx. 8 cm
<b>47032002</b>	approx. 15 cm	approx. 700 ml	approx. 9 cm

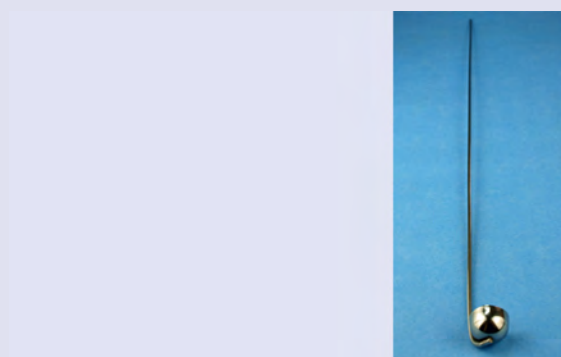
## Pestles made of melamine

	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
<b>44240006</b>	2 ml	approx. 60 mm
<b>44240012</b>	5 ml	approx. 82 mm
<b>44240018</b>	10 ml	approx. 100 mm
<b>44240024</b>	25 ml	approx. 135 mm
<b>44240030</b>	50 ml	approx. 160 mm
<b>44240036</b>	100 ml	approx. 200 mm
<b>44240042</b>	250 ml	approx. 260 mm
<b>44240048</b>	500 ml	approx. 315 mm
<b>44240054</b>	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
<b>44248003</b>	approx. 3 ml	approx. 70 mm
<b>44248006</b>	approx. 6 ml	approx. 80 mm
<b>44248010</b>	approx. 10 ml	approx. 105 mm



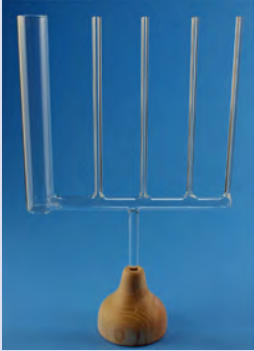
### Communicating vessels

#### Clear glass, with wooden base

for educational purposes

**41954010** with 4 different tubes





### Clear glass, with wooden base

for educational purposes

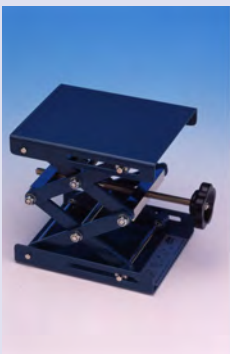
**41955010** with 1 large tube and 4 different capillary tubes



### Radiometers (Light mills, Crooke's radiometers)

Clear glass, with base

	Height	Ø
<b>42757002</b>	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
<b>42011010</b>	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
<b>41593006</b>	5-11 mm Ø	6 pieces
<b>41593012</b>	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

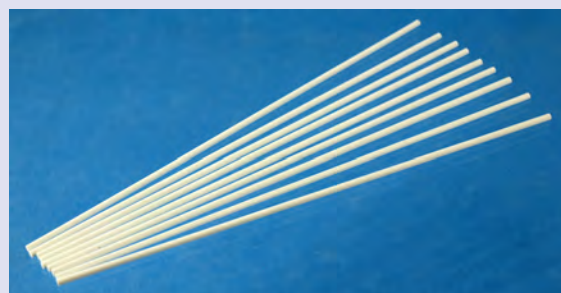


## Magnesia rods

**DIN 40680, thermal resistance approx. 560 K**

Packing 25 pieces

	Ø	Length
<b>42066010</b>	approx. 1.8 mm	approx. 140 mm



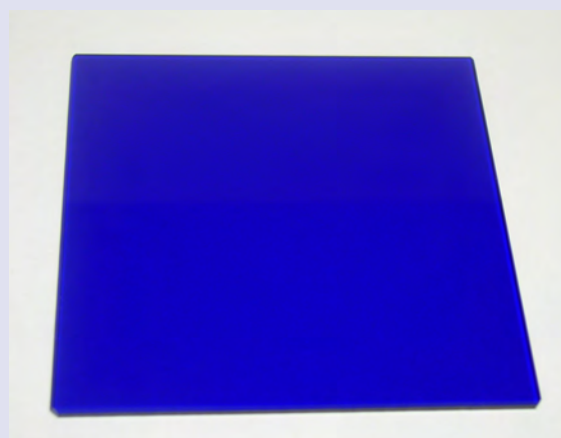
## Blue glass plates

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/m<sup>2</sup>

#### 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
<b>42510020</b>	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'



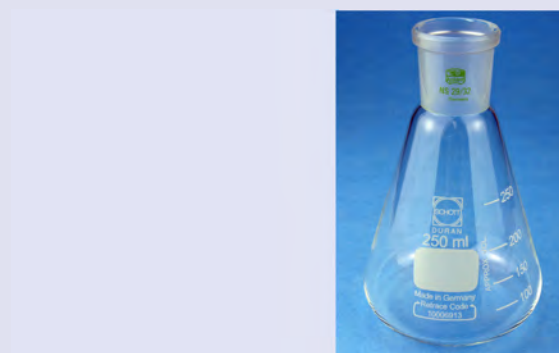
## Ground Joint Flasks and Bottles

### 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
<b>41920004</b>	14/23	5 ml
<b>41920008</b>	14/23	10 ml
<b>41920012</b>	19/26	10 ml
<b>41920020</b>	14/23	25 ml
<b>41920024</b>	19/26	25 ml
<b>41920040</b>	29/32	50 ml
<b>41920044</b>	14/23	50 ml
<b>41920048</b>	19/26	50 ml
<b>41920060</b>	29/32	100 ml
<b>41920064</b>	19/26	100 ml
<b>41920072</b>	29/32	250 ml
<b>41920076</b>	29/32	500 ml
<b>41920080</b>	29/32	1000 ml
<b>41920084</b>	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

<b>41921006</b>	Capacity 5 ml
<b>41921012</b>	Capacity 10 ml
<b>41921018</b>	Capacity 25 ml
<b>41921024</b>	Capacity 50 ml



### Flat bottom flasks, narrow neck, DURAN® borosilicate glass 3.3

DIN ISO 1773, with rim, without standard ground, medium length

<b>41924024</b>	Capacity 50 ml
<b>41924030</b>	Capacity 100 ml
<b>41924036</b>	Capacity 250 ml
<b>41924042</b>	Capacity 500 ml
<b>41924048</b>	Capacity 1000 ml
<b>41924054</b>	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
<b>41911006</b>	29/32	50 ml
<b>41911012</b>	29/32	100 ml
<b>41911015</b>	19/26	100 ml
<b>41911018</b>	29/32	250 ml
<b>41911024</b>	29/32	500 ml
<b>41911030</b>	29/32	1000 ml
<b>41911036</b>	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
<b>41913006</b>	29/32	50 ml
<b>41913008</b>	14/23	50 ml
<b>41913010</b>	19/26	50 ml
<b>41913012</b>	29/32	100 ml
<b>41913014</b>	14/23	100 ml
<b>41913015</b>	19/26	100 ml
<b>41913018</b>	29/32	250 ml
<b>41913024</b>	29/32	500 ml
<b>41913030</b>	29/32	1000 ml
<b>41913036</b>	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
<b>42386010</b>	green	joint size 10/19
<b>42386012</b>	purple	joint size 12/21
<b>42386014</b>	yellow	joint size 14/23
<b>42386019</b>	blue	joint size 19/26
<b>42386024</b>	green	joint size 24/29
<b>42386029</b>	red	joint size 29/32
<b>42386034</b>	orange	joint size 34/35
<b>42386040</b>	yellow	joint size 40/38
<b>42386045</b>	brown	joint size 45/40



## Reduction and expansion adapters

DIN 12257, DURAN® borosilicate glass 3.3, reinforced ground joint, solid rim

	Socket	Cone
<b>42387001</b>	Joint size 14/23	Joint size 19/26
<b>42387002</b>	Joint size 14/23	Joint size 24/29
<b>42387003</b>	Joint size 14/23	Joint size 29/32
<b>42387004</b>	Joint size 19/26	Joint size 24/29
<b>42387005</b>	Joint size 19/26	Joint size 29/32
<b>42387006</b>	Joint size 29/32	Joint size 45/40
<b>42387007</b>	Joint size 24/29	Joint size 34/35
<b>42387008</b>	Joint size 19/26	Joint size 14/23
<b>42387009</b>	Joint size 24/29	Joint size 14/23
<b>42387010</b>	Joint size 29/32	Joint size 14/23
<b>42387011</b>	Joint size 24/29	Joint size 19/26
<b>42387012</b>	Joint size 29/32	Joint size 19/26
<b>42387013</b>	Joint size 29/32	Joint size 24/29
<b>42387014</b>	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

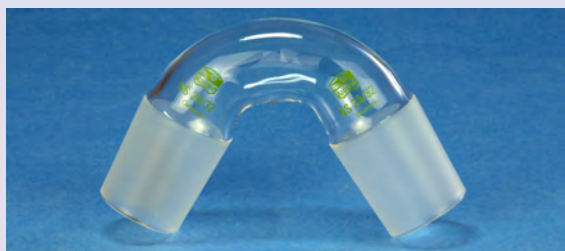
**42388010** for joint size 14/23

**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  $75^{\circ}$



#### Still heads

DURAN® borosilicate glass 3.3, with 2 cones and 1 socket

	Socket	Cones
<b>41029010</b>	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
<b>41033010</b>	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
<b>41037008</b>	100 ml	approx. 200 mm
<b>41037016</b>	250 ml	approx. 200 mm
<b>41037024</b>	500 ml	approx. 200 mm
<b>41037032</b>	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

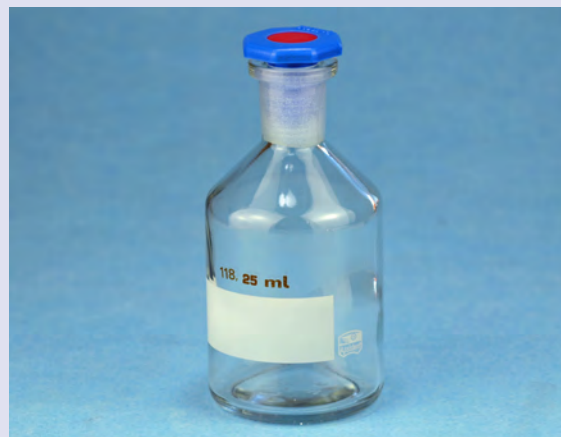


## Oxygen bottles according to Winkler

for the determination of the oxygen dissolved in the water

Clear glass, with interchangeable stopper made of HDPE, frosted label and precisely adjusted capacity

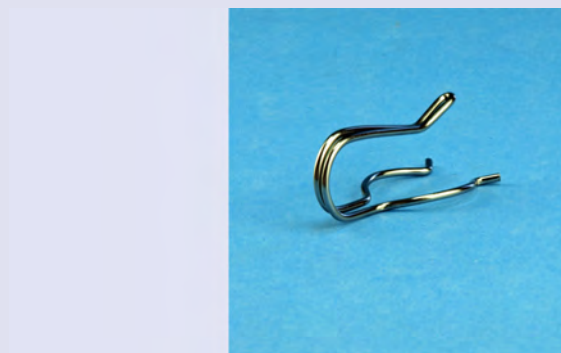
	Capacity	Joint size
<b>44267010</b>	100-150 ml	14/23
<b>44267020</b>	250-300 ml	19/26



## 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

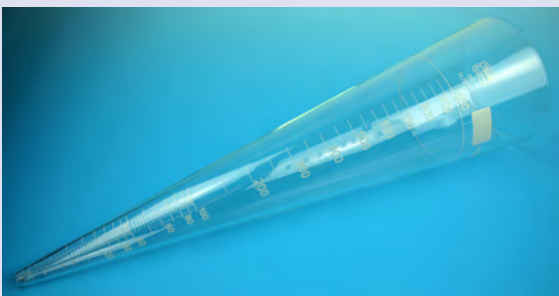


### Sediment cones according to Imhoff, made of plastic (SAN)

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

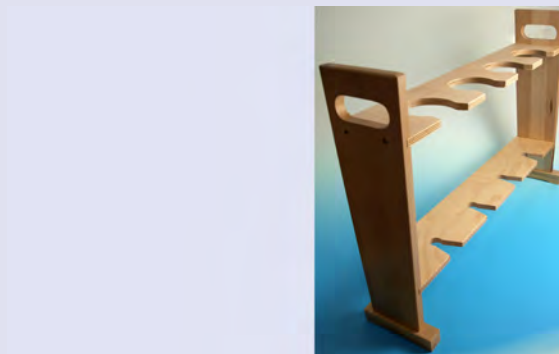
**44276020** with stopcock

## 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
<b>44279010</b>	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

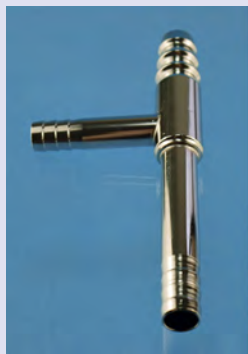
with sleeve nut R 3/4", thread adapter R 1/2", hose connection (olive 10-12 mm Ø) and vacuum connection (olive 6-10 mm Ø) with integrated non-return valve, temperature max. +80 °C/+176 °F (continuously)

**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
<b>44284010</b>	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
<b>42950024</b>	19/26	2.5 mm	50 ml
<b>42950030</b>	19/26	2.5 mm	100 ml
<b>42950048</b>	29/32	4 mm	250 ml
<b>42950060</b>	29/32	4 mm	500 ml
<b>42950066</b>	29/32	6 mm	1000 ml
<b>42950072</b>	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
<b>42951024</b>	19/26	2.5 mm	50 ml
<b>42951030</b>	19/26	2.5 mm	100 ml
<b>42951048</b>	29/32	4 mm	250 ml
<b>42951060</b>	29/32	4 mm	500 ml
<b>42951066</b>	29/32	6 mm	1000 ml
<b>42951072</b>	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
<b>42956024</b>	19/26	2.5 mm	50 ml
<b>42956030</b>	19/26	2.5 mm	100 ml
<b>42956048</b>	29/32	4 mm	250 ml
<b>42956060</b>	29/32	4 mm	500 ml
<b>42956066</b>	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
<b>42970024</b>	19/26	2.5 mm	50 ml
<b>42970030</b>	19/26	2.5 mm	100 ml
<b>42970048</b>	29/32	4 mm	250 ml
<b>42970060</b>	29/32	4 mm	500 ml
<b>42970066</b>	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
<b>42971024</b>	19/26	2.5 mm	50 ml
<b>42971030</b>	19/26	2.5 mm	100 ml
<b>42971048</b>	29/32	4 mm	250 ml
<b>42971060</b>	29/32	4 mm	500 ml
<b>42971066</b>	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
<b>42985024</b>	19/26	2.5 mm	50 ml
<b>42985030</b>	19/26	2.5 mm	100 ml
<b>42985048</b>	29/32	4 mm	250 ml
<b>42985060</b>	29/32	4 mm	500 ml
<b>42985066</b>	29/32	6 mm	1000 ml
<b>42985072</b>	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
<b>42986024</b>	19/26	2.5 mm	50 ml
<b>42986030</b>	19/26	2.5 mm	100 ml
<b>42986048</b>	29/32	4 mm	250 ml
<b>42986060</b>	29/32	4 mm	500 ml
<b>42986066</b>	29/32	6 mm	1000 ml
<b>42986072</b>	29/32	6 mm	2000 ml



## Funnels

made of DURAN® borosilicate glass 3.3

Angle of 60°, sloping stem

<b>43990004</b>	approx. 3 cm Ø
<b>43990008</b>	approx. 3.5 cm Ø
<b>43990012</b>	approx. 4 cm Ø
<b>43990016</b>	approx. 4.5 cm Ø
<b>43990020</b>	approx. 5 cm Ø
<b>43990024</b>	approx. 5.5 cm Ø
<b>43990028</b>	approx. 6 cm Ø
<b>43990032</b>	approx. 7 cm Ø
<b>43990036</b>	approx. 8 cm Ø
<b>43990040</b>	approx. 10 cm Ø



## Analytical funnels

Borosilicate glass 3.3, angle of 60°, with long stem, ribbed, for rapid filtration

<b>43991007</b>	65 mm Ø
<b>43991014</b>	80 mm Ø
<b>43991021</b>	110 mm Ø





### made of soda-lime glass

Angle of 60°, sloping stem

<b>44000004</b>	approx. 3 cm Ø
<b>44000008</b>	approx. 3.5 cm Ø
<b>44000012</b>	approx. 4 cm Ø
<b>44000016</b>	approx. 4.5 cm Ø
<b>44000020</b>	approx. 5 cm Ø
<b>44000024</b>	approx. 5.5 cm Ø
<b>44000028</b>	approx. 6 cm Ø
<b>44000032</b>	approx. 7 cm Ø
<b>44000036</b>	approx. 8 cm Ø
<b>44000040</b>	approx. 10 cm Ø
<b>44000044</b>	approx. 12 cm Ø
<b>44000048</b>	approx. 15 cm Ø
<b>44000056</b>	approx. 20 cm Ø (*)
<b>44000060</b>	approx. 25 cm Ø (*)
<b>44000064</b>	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
<b>44001012</b>	approx. 14 mm	approx. 18 mm	approx. 4 cm	approx. 45 mm
<b>44001020</b>	approx. 18 mm	approx. 25 mm	approx. 5 cm	approx. 55 mm
<b>44001028</b>	approx. 20 mm	approx. 25 mm	approx. 6 cm	approx. 60 mm
<b>44001036</b>	approx. 24 mm	approx. 26 mm	approx. 8 cm	approx. 70 mm
<b>44001040</b>	approx. 26 mm	approx. 27 mm	approx. 10 cm	approx. 80 mm
<b>44001044</b>	approx. 26 mm	approx. 32 mm	approx. 12 cm	approx. 115 mm
<b>44001052</b>	approx. 35 mm	approx. 24 mm	approx. 16 cm	approx. 135 mm

44001052 made of borosilicate glass 3.3



### Powder funnels made of polypropylene

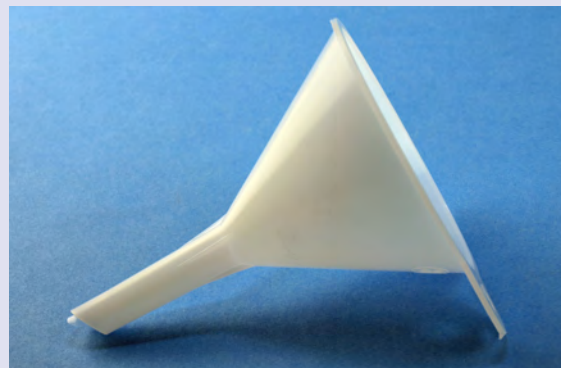
Transparent

	Stem Ø	Length of stem	Outside Ø	Length
<b>44002030</b>	15 mm	25 mm	65 mm	68 mm
<b>44002036</b>	21 mm	25 mm	80 mm	76 mm
<b>44002040</b>	22 mm	20 mm	100 mm	94 mm
<b>44002044</b>	26 mm	20 mm	120 mm	110 mm
<b>44002048</b>	28 mm	22 mm	150 mm	138 mm

Dimensions given are approximate.

## Funnels made of polyethylene (HDPE)

	Stem length	Ø
<b>49050003</b>	approx. 40 mm	approx. 6 cm
<b>49050006</b>	approx. 50 mm	approx. 8 cm
<b>49050009</b>	approx. 55 mm	approx. 10 cm
<b>49050012</b>	approx. 60 mm	approx. 12 cm
<b>49050015</b>	approx. 65 mm	approx. 14 cm
<b>49050018</b>	approx. 80 mm	approx. 16 cm
<b>49050021</b>	approx. 85 mm	approx. 20 cm



## made of polypropylene (analytical funnels)

with fluted inner surface, for rapid filtration

	Ø	Stem length
<b>49051024</b>	approx. 25 mm	approx. 39 mm
<b>49051027</b>	approx. 35 mm	approx. 38 mm
<b>49051030</b>	approx. 45 mm	approx. 44 mm
<b>49051033</b>	approx. 65 mm	approx. 63 mm
<b>49051036</b>	approx. 80 mm	approx. 69 mm
<b>49051039</b>	approx. 100 mm	approx. 82 mm
<b>49051042</b>	approx. 120 mm	approx. 85 mm
<b>49051045</b>	approx. 150 mm	approx. 115 mm
<b>49051048</b>	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.

<b>42830001</b>	4-5 mm outside Ø - 0.8 mm wall
<b>42830002</b>	6-8 mm outside Ø - 1 mm wall
<b>42830003</b>	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
<b>42830004</b>	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

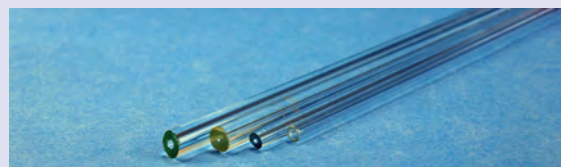


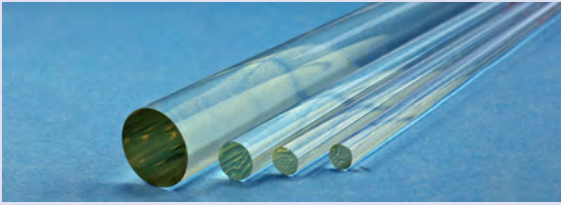
### Capillary tubing made of DURAN® borosilicate glass 3.3

Factory length approx. 1.50 m

Kindly mention required inside and outside diameter in your order.

	Inside Ø	Outside Ø
<b>42833010</b>	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

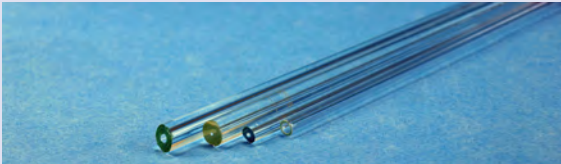
Kindly mention required outside diameter and wall thickness in your order.

**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

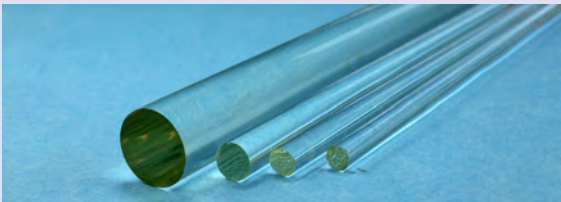


### Capillary tubing made of AR-Glas® (soda glass)

Factory length approx. 1.50 m

Kindly mention required inside and outside diameter in your order.

	Inside Ø	Outside Ø
<b>42843010</b>	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

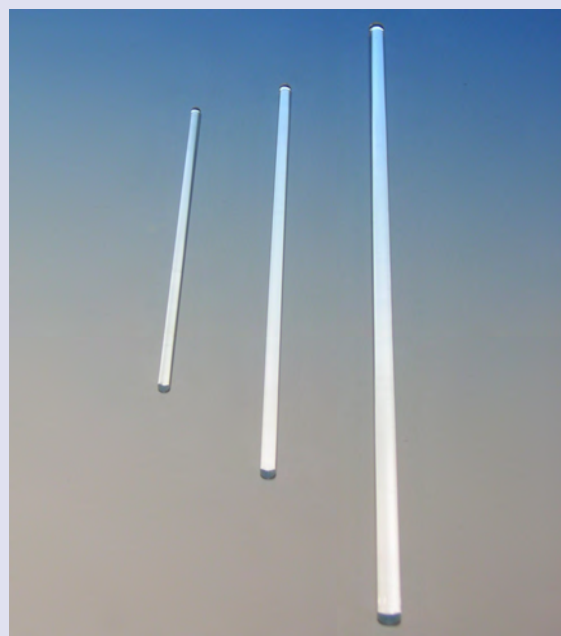
**42847001** Spare wheels for no. 42847010

**42847010** Glass tube cutter with cutting wheel

## Stirring rods made of glass

Fused ends

	Length	Ø
<b>42850006</b>	approx. 150 mm	approx. 4 mm
<b>42850012</b>	approx. 150 mm	approx. 5 mm
<b>42850018</b>	approx. 150 mm	approx. 6 mm
<b>42850024</b>	approx. 200 mm	approx. 3 mm
<b>42850030</b>	approx. 200 mm	approx. 4 mm
<b>42850036</b>	approx. 200 mm	approx. 5 mm
<b>42850042</b>	approx. 200 mm	approx. 6 mm
<b>42850048</b>	approx. 250 mm	approx. 4 mm
<b>42850054</b>	approx. 250 mm	approx. 6 mm
<b>42850060</b>	approx. 250 mm	approx. 7 mm
<b>42850066</b>	approx. 300 mm	approx. 7 mm
<b>42850072</b>	approx. 300 mm	approx. 8 mm
<b>42850078</b>	approx. 300 mm	approx. 9 mm
<b>42850084</b>	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
<b>41385010</b>	approx. 13 mm	approx. 160 mm	approx. 17 mm



#### Bunsen burners

with air regulation, head approx. 15 mm Ø

	Tube Ø	for
<b>41390001</b>	approx. 11 mm	natural gas
<b>41390002</b>	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

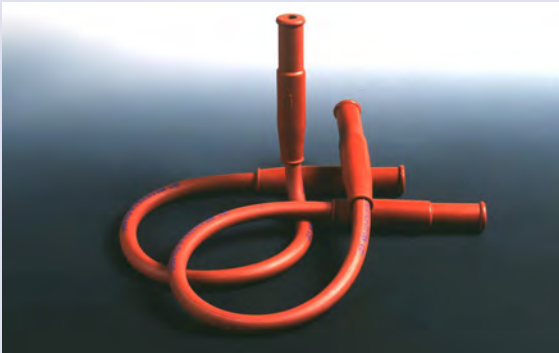
	Tube Ø	for
<b>41391001</b>	approx. 11/9 mm (outside/inside)	natural gas
<b>41391002</b>	approx. 11/9 mm (outside/inside)	propane/butane gas



### 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
<b>41395001</b>	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 galvanized iron

	Ø of inside ring	Ø of outside ring
<b>41090010</b>	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
<b>41091010</b>	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

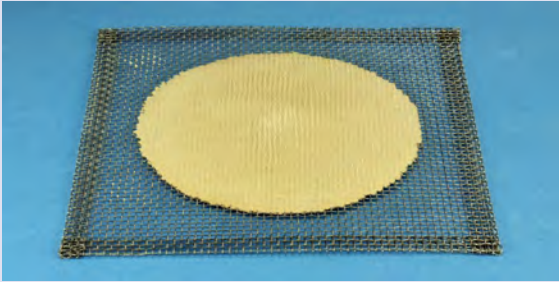


## Quadrupods for protective plates

made of chrome-nickel steel, with 4 legs

	for plates	Height
<b>41067001</b>	135 x 135 mm	approx. 210 mm
<b>41067002</b>	155 x 155 mm	approx. 210 mm
<b>41067003</b>	175 x 175 mm	approx. 220 mm





## Iron wire gauzes

### with ceramic centre

made of galvanised iron wire

	Dimensions	Ceramic centre
<b>41071012</b>	approx. 12 x 12 cm	approx. 80 mm Ø
<b>41071016</b>	approx. 16 x 16 cm	approx. 110 mm Ø
<b>41071020</b>	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
<b>41580004</b>	approx. 1 mm	approx. 4 mm
<b>41580006</b>	approx. 1.5 mm	approx. 6 mm
<b>41580008</b>	approx. 2 mm	approx. 8 mm
<b>41580010</b>	approx. 2 mm	approx. 10 mm
<b>41580012</b>	approx. 2.5 mm	approx. 12 mm

#### Laboratory tubing, PVC, transparent

Resistant up to +60 °C/+140 °F



	Wall thickness	Inside Ø
<b>41581004</b>	approx. 1.5 mm	approx. 4 mm
<b>41581006</b>	approx. 1.5 mm	approx. 6 mm
<b>41581008</b>	approx. 1.5 mm	approx. 8 mm
<b>41581010</b>	approx. 2 mm	approx. 10 mm
<b>41581012</b>	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
<b>41582004</b>	approx. 1 mm	approx. 4 mm
<b>41582006</b>	approx. 1.5 mm	approx. 6 mm
<b>41582008</b>	approx. 2 mm	approx. 8 mm
<b>41582010</b>	approx. 2 mm	approx. 10 mm
<b>41582012</b>	approx. 2 mm	approx. 12 mm

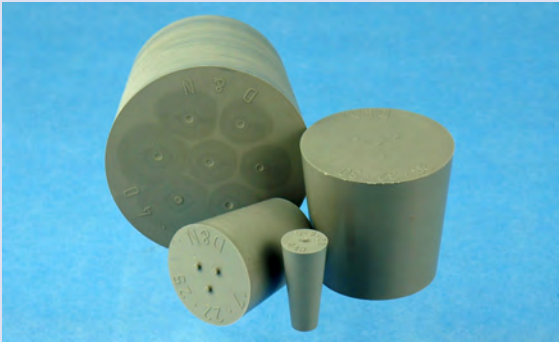


## Silicone stoppers, solid

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
<b>41583004</b>	20 mm	5 mm	9 mm
<b>41583008</b>	20 mm	10.5 mm	14.5 mm
<b>41583012</b>	20 mm	12.5 mm	16.5 mm
<b>41583016</b>	20 mm	14 mm	18 mm
<b>41583020</b>	25 mm	17 mm	22 mm
<b>41583024</b>	30 mm	18 mm	24 mm
<b>41583028</b>	30 mm	21 mm	27 mm
<b>41583032</b>	30 mm	26 mm	32 mm
<b>41583036</b>	30 mm	29 mm	35 mm
<b>41583040</b>	35 mm	31 mm	38 mm
<b>41583044</b>	40 mm	36 mm	44 mm
<b>41583048</b>	40 mm	41 mm	49 mm
<b>41583052</b>	40 mm	47 mm	55 mm
<b>41583056</b>	55 mm	64.5 mm	75.5 mm





## Rubber stoppers, solid

DIN 12871, made of natural rubber, hardness 40 Shore A

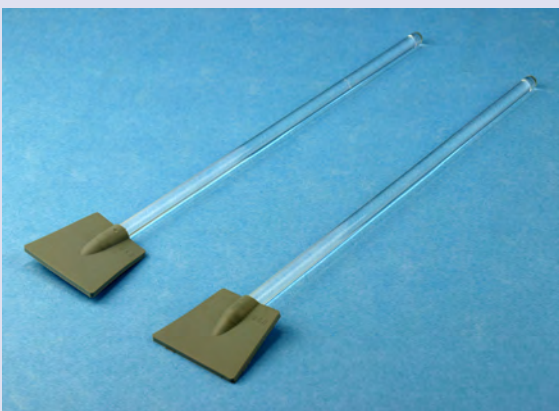
	Height	Bottom Ø	Top Ø
41590002	20 mm	4 mm	8 mm
41590005	20 mm	5 mm	9 mm
41590008	20 mm	8 mm	12 mm
41590011	19 mm	9 mm	12 mm
41590014	20 mm	10.5 mm	14.5 mm
41590017	25 mm	12 mm	17 mm
41590020	20 mm	14 mm	18 mm
41590023	25 mm	17 mm	22 mm
41590026	30 mm	18 mm	24 mm
41590029	30 mm	21 mm	27 mm
41590032	30 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
<b>41598113</b>	250 x 250 mm	red
<b>41598118</b>	250 x 250 mm	black
<b>41598213</b>	350 x 350 mm	red
<b>41598218</b>	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

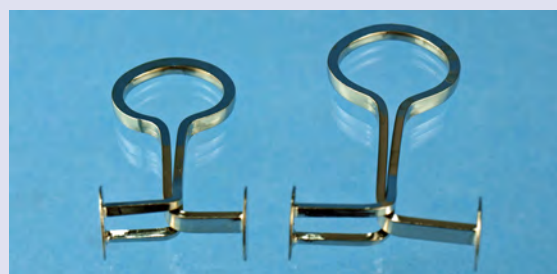


## Pinchcocks

### according to Mohr

made of nickel-plated brass, sterilisable

	Opening up to	Length
<b>42750050</b>	approx. 12 mm	approx. 50 mm
<b>42750060</b>	approx. 16 mm	approx. 60 mm



### Clamps according to Hoffmann

with swivel jaw, made of nickel-plated brass, sterilisable

	Height inside	Opening to
<b>42755020</b>	approx. 16 mm	approx. 20 mm
<b>42755025</b>	approx. 21 mm	approx. 25 mm
<b>42755030</b>	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
<b>42575010</b>	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"

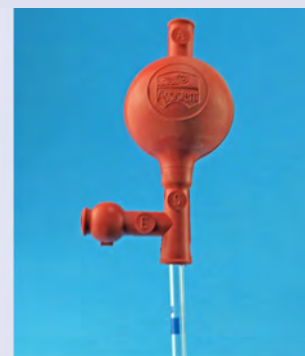
- 42578006** for pipettes up to 0.2 ml - without quick-release valve
- 42578012** for pipettes up to 2 ml
- 42578018** for pipettes up to 10 ml
- 42578024** for pipettes up to 25 ml



## Pipette fillers, standard model

made of natural rubber, red, with 3 valves

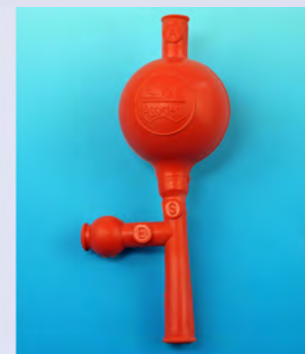
- 42580010** for measuring pipettes and volumetric pipettes up to 10 ml



## 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

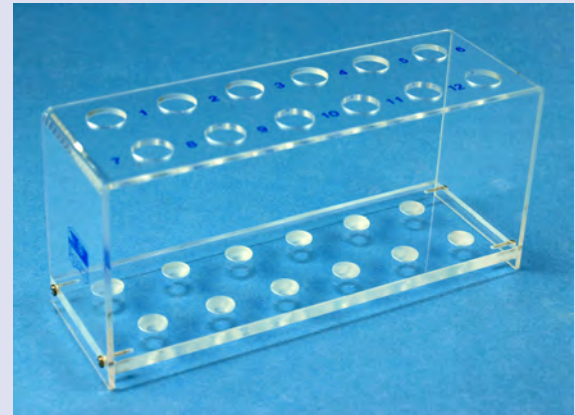
**42803010** for tubes up to approx. 18 mm Ø

## Test tube racks made of Plexiglas®

### for 12 tubes up to approx. 13 mm Ø, without pins

with numbered holes, one level

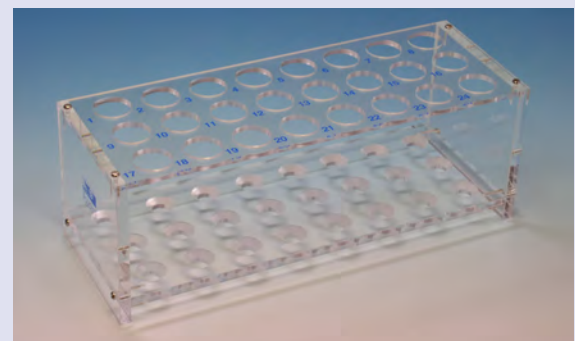
	Length	Width	Height
<b>42807010</b>	approx. 164 mm	approx. 55 mm	approx. 76 mm



### for tubes up to approx. 18 mm Ø, without pins

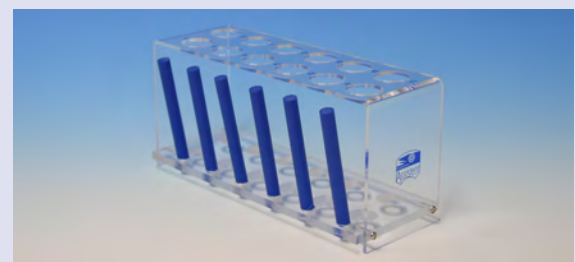
with numbered holes

	for	Length	Width	Height
<b>42808006</b>	6 tubes	approx. 165 mm	approx. 55 mm	approx. 75 mm
<b>42808012</b>	12 tubes	approx. 164 mm	approx. 55 mm	approx. 76 mm
<b>42808024</b>	24 tubes	approx. 220 mm	approx. 80 mm	approx. 79 mm
<b>42808033</b>	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
<b>42809012</b>	approx. 165 mm	approx. 70 mm	approx. 75 mm



## Test tube racks made of plastic

### Polypropylene

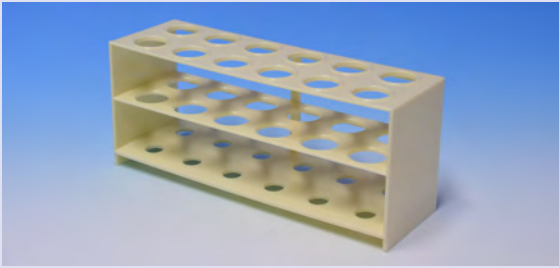
Stackable, alphanumeric markings, autoclavable at +121 °C/ +249.8 °F, permanently -20 °C/-4 °F to +90 °C/+194 °F, suitable for water baths

	Ø	Dimensions	for
<b>42813.13</b>	13 mm	265 x 126 x 75 mm	6 x 14 tubes
<b>42813.18</b>	18 mm	265 x 126 x 75 mm	5 x 11 tubes
<b>42813.20</b>	20 mm	265 x 126 x 75 mm	4 x 10 tubes
<b>42813.25</b>	25 mm	265 x 126 x 88 mm	4 x 8 tubes
<b>42813.30</b>	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

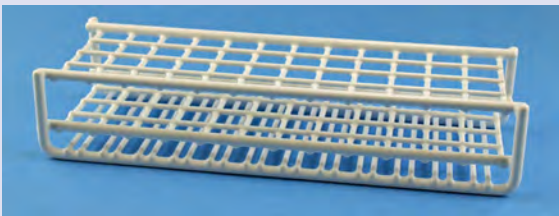
**42822013** blue/blue

**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
<b>42815012</b>	12 tubes (3 x 4)	approx. 17 mm Ø	approx. 8 cm
<b>42815024</b>	24 tubes (4 x 6)	approx. 17 mm Ø	approx. 8 cm
<b>42815036</b>	36 tubes (3 x 12)	approx. 17 mm Ø	approx. 8 cm
<b>42815048</b>	48 tubes (4 x 12)	approx. 17 mm Ø	approx. 8 cm
<b>42815248</b>	48 tubes (4 x 12)	approx. 12 mm Ø	approx. 4 cm



#### for 48 (4 x 12) reaction tubes

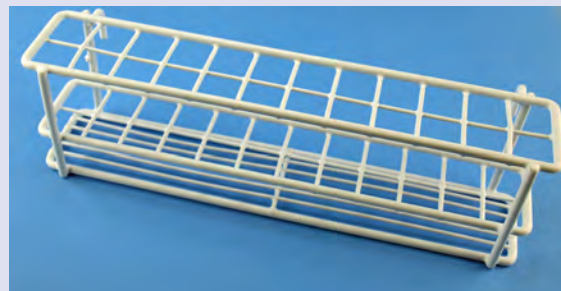
plastic-coated, with handles

**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
<b>44131010</b>	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

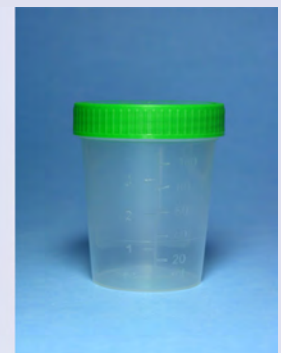
**44115001** Capacity 125 ml



### 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
<b>47000006</b>	approx. 25 mm	approx. 40 ml	approx. 63 mm
<b>47000007</b>	approx. 26 mm	approx. 50 ml	approx. 70 mm
<b>47000008</b>	approx. 34 mm	approx. 75 ml	approx. 80 mm
<b>47000010</b>	approx. 40 mm	approx. 115 ml	approx. 100 mm
<b>47000012</b>	approx. 47 mm	approx. 310 ml	approx. 115 mm
<b>47000015</b>	approx. 45 mm	approx. 370 ml	approx. 150 mm

#### Evaporating dishes, flat type

with spout, glazed, DIN 12903



	Height	Capacity	Ø
<b>47002008</b>	approx. 20 mm	approx. 40 ml	approx. 80 mm
<b>47002010</b>	approx. 22 mm	approx. 80 ml	approx. 100 mm

#### Büchner funnels



	Capacity	Stem	Filter area Ø	Height
<b>47005040</b>	approx. 25 ml	approx. 37 mm	approx. 40 mm	approx. 76 mm
<b>47005055</b>	approx. 75 ml	approx. 53 mm	approx. 55 mm	approx. 129 mm
<b>47005070</b>	approx. 135 ml	approx. 75 mm	approx. 70 mm	approx. 150 mm
<b>47005090</b>	approx. 290 ml	approx. 75 mm	approx. 90 mm	approx. 165 mm

#### Casseroles

Glazed, with handle



	Ø	Capacity	Height
<b>47015010</b>	approx. 102 mm	approx. 290 ml	approx. 69 mm
<b>47015012</b>	approx. 127 mm	approx. 500 ml	approx. 70 mm



## Measuring jugs with handle and scale

with spout, cylindrical

	Capacity	Height
<b>47020024</b>	approx. 50 ml	approx. 55 mm
<b>47020030</b>	approx. 100 ml	approx. 72 mm
<b>47020048</b>	approx. 250 ml	approx. 96 mm
<b>47020060</b>	approx. 500 ml	approx. 131 mm
<b>47020066</b>	approx. 1000 ml	approx. 160 mm



## Mortars with spout

Inside rough, outside glazed

	Capacity	Height	Ø
<b>47030006</b>	approx. 20 ml	approx. 32 mm	approx. 60 mm
<b>47030008</b>	approx. 70 ml	approx. 40 mm	approx. 80 mm
<b>47030010</b>	approx. 100 ml	approx. 50 mm	approx. 100 mm
<b>47030013</b>	approx. 300 ml	approx. 63 mm	approx. 130 mm
<b>47030015</b>	approx. 400 ml	approx. 65 mm	approx. 150 mm



## Pestles with rough grinding surface

made of porcelain

	Length	Head Ø
<b>47031006</b>	approx. 100 mm	approx. 24 mm
<b>47031008</b>	approx. 115 mm	approx. 24 mm
<b>47031010</b>	approx. 135 mm	approx. 30 mm
<b>47031013</b>	approx. 150 mm	approx. 36 mm
<b>47031015</b>	approx. 180 mm	approx. 45 mm



## Combustion boats

Unglazed

	Width	Length	Height
<b>47035010</b>	approx. 13 mm	approx. 80 mm	approx. 9 mm



## Crucibles without cover

made of porcelain, medium-high form, glazed

	Height	Ø	Capacity
<b>47040025</b>	approx. 20 mm	approx. 25 mm	approx. 5 ml
<b>47040030</b>	approx. 25 mm	approx. 30 mm	approx. 10 ml
<b>47040035</b>	approx. 28 mm	approx. 35 mm	approx. 13 ml
<b>47040040</b>	approx. 32 mm	approx. 40 mm	approx. 20 ml
<b>47040045</b>	approx. 36 mm	approx. 45 mm	approx. 38 ml
<b>47040050</b>	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

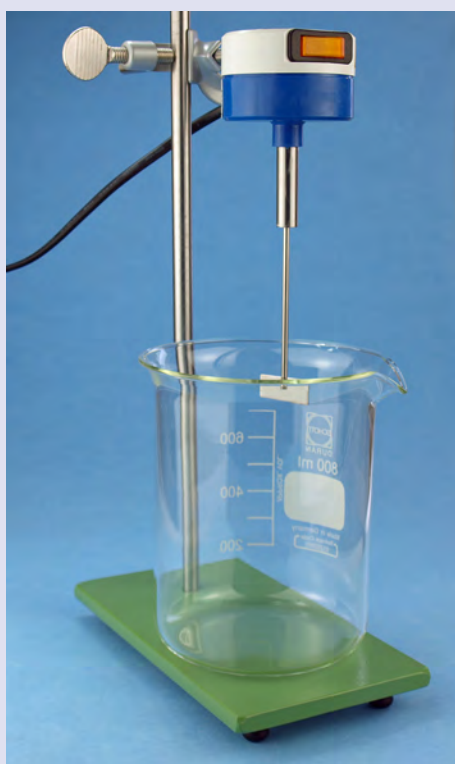
Side arm (supporting bar): approx. 135 x 8 mm Ø

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
<b>42075001</b>	approx. 12 mm	approx. 4.5 mm
<b>42075002</b>	approx. 15 mm	approx. 4.5 mm
<b>42075003</b>	approx. 20 mm	approx. 6 mm
<b>42075004</b>	approx. 25 mm	approx. 6 mm
<b>42075005</b>	approx. 30 mm	approx. 6 mm
<b>42075006</b>	approx. 40 mm	approx. 8 mm
<b>42075007</b>	approx. 50 mm	approx. 8 mm
<b>42075008</b>	approx. 60 mm	approx. 9 mm
<b>42075009</b>	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
<b>42077001</b>	approx. 13 mm	approx. 8 mm
<b>42077002</b>	approx. 15 mm	approx. 8 mm
<b>42077003</b>	approx. 25 mm	approx. 8 mm
<b>42077004</b>	approx. 25 mm	approx. 10 mm
<b>42077005</b>	approx. 38 mm	approx. 8 mm
<b>42077006</b>	approx. 38 mm	approx. 10 mm
<b>42077007</b>	approx. 38 mm	approx. 13 mm
<b>42077008</b>	approx. 51 mm	approx. 8 mm
<b>42077009</b>	approx. 51 mm	approx. 10 mm
<b>42077010</b>	approx. 64 mm	approx. 10 mm
<b>42077011</b>	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
<b>42078001</b>	approx. 12 mm	approx. 6 mm
<b>42078002</b>	approx. 20 mm	approx. 8 mm
<b>42078003</b>	approx. 25 mm	approx. 8 mm
<b>42078004</b>	approx. 25 mm	approx. 14 mm
<b>42078005</b>	approx. 35 mm	approx. 10 mm
<b>42078006</b>	approx. 40 mm	approx. 14 mm
<b>42078007</b>	approx. 50 mm	approx. 12 mm
<b>42078008</b>	approx. 55 mm	approx. 14 mm
<b>42078009</b>	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
<b>42079001</b>	approx. 20 mm	approx. 10 mm
<b>42079002</b>	approx. 25 mm	approx. 12 mm
<b>42079003</b>	approx. 35 mm	approx. 16 mm
<b>42079004</b>	approx. 40 mm	approx. 20 mm
<b>42079005</b>	approx. 50 mm	approx. 20 mm
<b>42079006</b>	approx. 65 mm	approx. 20 mm
<b>42079007</b>	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

<b>40225010</b>	
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
<b>40075010</b>	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
<b>40080010</b>	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

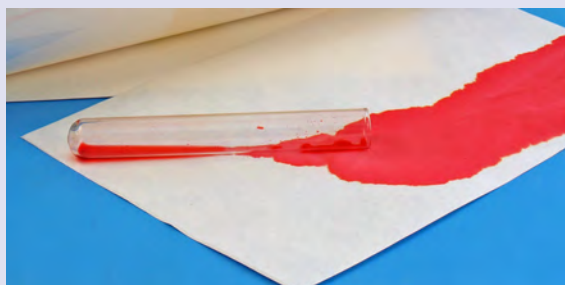
Practical, battery-powered device  
 Measuring range: pH 0.0 - 14.0 : 0.1  
 Electrode approx. 8 x 1.2 cm Ø

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/m<sup>2</sup> + PE 25 g/m<sup>2</sup>), protects laboratory benches and drawers  
 Absorption approx. 170 g/m<sup>2</sup>

- 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
<b>41406010</b>	5 litres	approx. 12.5



### Pipette brushes in sets of 4 pieces

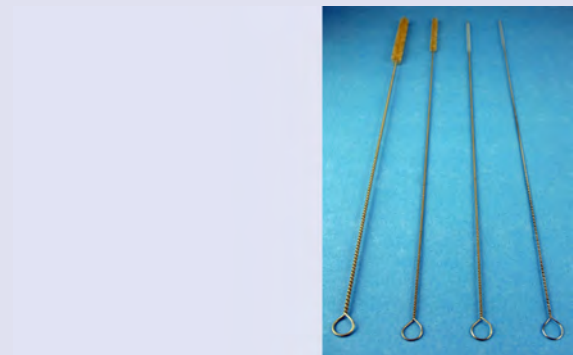
**42588010** for measuring pipettes 1-10 ml



### Pipette brushes for measuring pipettes

Individually

	for measuring pipettes	Dimensions
<b>42589001</b>	1 ml	approx. 410 x 70 x 4.0 mm Ø
<b>42589002</b>	2 ml	approx. 405 x 75 x 4.5 mm Ø
<b>42589005</b>	5 ml	approx. 400 x 75 x 8.0 mm Ø
<b>42589010</b>	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
<b>41977050</b>	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
<b>41977060</b>	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)

<b>41975006</b>	blue
<b>41975012</b>	green
<b>41975018</b>	orange
<b>41975024</b>	pink
<b>41975030</b>	red
<b>41975036</b>	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

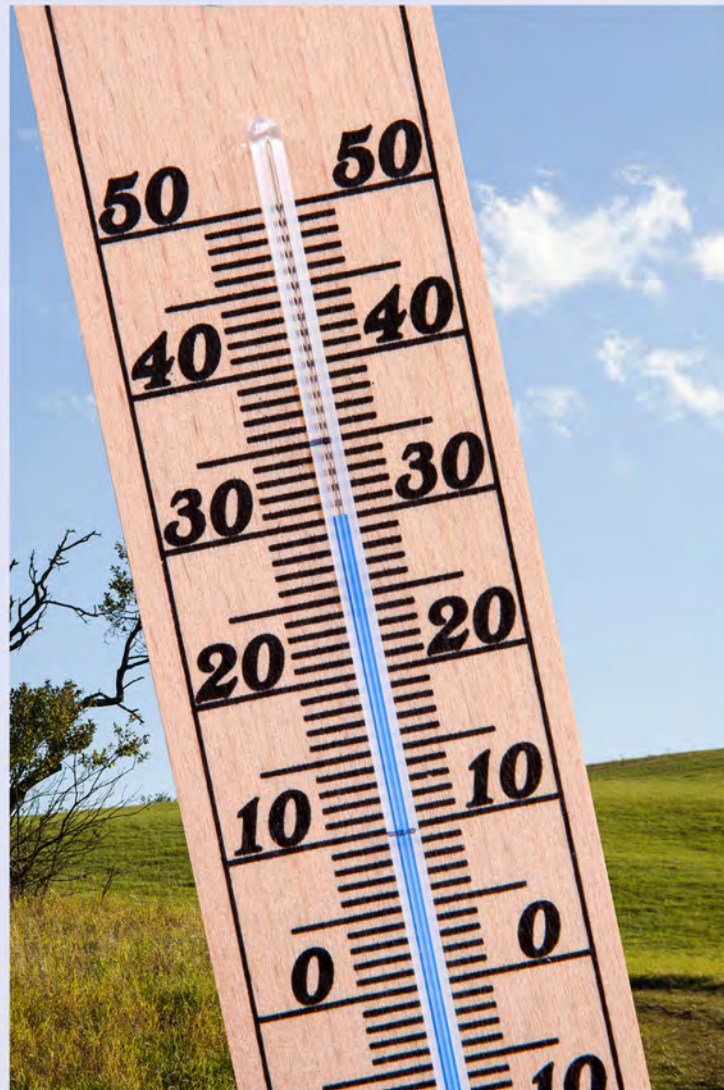
	Inner scale	Outer scale
<b>41979010</b>	0-100/100 min	0-60 s, 0-60 min



### 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:

<b>43200008</b>	0 +50 °C / 32 +122 °F
<b>43200016</b>	100 °C/212 °F
<b>43200024</b>	150 °C/302 °F
<b>43200032</b>	200 °C/392 °F
<b>43200040</b>	250 °C/482 °F
<b>43200048</b>	300 °C/572 °F
<b>43200056</b>	360 °C/680 °F
<b>43200064</b>	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:

<b>43201008</b>	0 +50 °C / 32 +122 °F
<b>43201016</b>	100 °C/212 °F
<b>43201024</b>	150 °C/302 °F
<b>43201032</b>	200 °C/392 °F
<b>43201040</b>	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



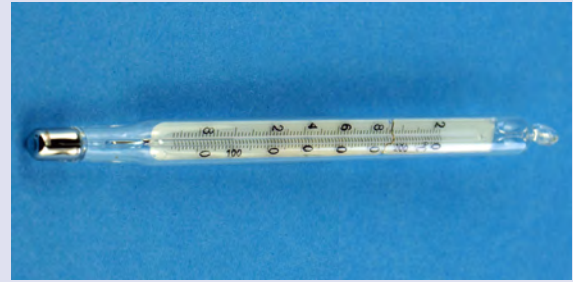
	Range	Dimensions
<b>43205024</b>	-10 +150 °C / +14 +302 °F	approx. 260 x 7-8 mm Ø
<b>43205032</b>	-10 +200 °C / +14 +392 °F	approx. 300 x 7-8 mm Ø

## 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
<b>43210001</b>	-10 °C +50 °C / +14 °F +122 °F	0.5 °C / 0.9 °F	approx. 22 cm
<b>43210002</b>	-10 °C +50 °C / +14 °F +122 °F	0.1 °C/0.18 °F	approx. 42 cm
<b>43210003</b>	-10 +100 °C / +14 +212 °F	1 °C/1.8 °F	approx. 30 cm
<b>43210004</b>	-10 +100 °C / +14 +212 °F	0.5 °C / 0.9 °F	approx. 27 cm
<b>43210005</b>	0 +100 °C / 32 +212 °F	0.1 °C/0.18 °F	approx. 55 cm
<b>43210006</b>	-10 +150 °C / +14 +302 °F	1 °C/1.8 °F	approx. 30 cm
<b>43210007</b>	-10 +150 °C / +14 +302 °F	0.5 °C / 0.9 °F	approx. 35 cm
<b>43210008</b>	-10 +200 °C / +14 +392 °F	1 °C/1.8 °F	approx. 35 cm
<b>43210009</b>	-10 +200 °C / +14 +392 °F	0.5 °C / 0.9 °F	approx. 35 cm



## Distillation thermometers

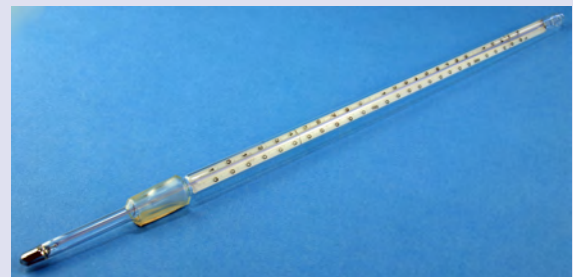
### with standard ground 14/23

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
<b>43310010</b>	+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

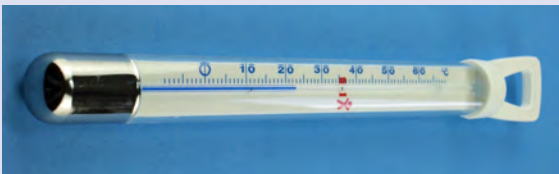
<b>43315010</b>	
Range	+32 °C +42 °C/+89.6 °F +107.6 °F
Measuring time	approx. 1 min at room temperature
Battery life	approx. 250 hours
Accuracy	± 0.1 °C/32.18 °F



### Bath thermometers for hospital

Solid finish, plastic, coloured filling

	Range	Length
<b>43690010</b>	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
<b>43698010</b>	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
<b>43700010</b>	-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
<b>43711010</b>	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

<b>43720010</b>	blue
<b>43720020</b>	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

	<b>43510101</b>	<b>43510102</b>	<b>43510103</b>	<b>43510128</b>
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
<b>43238010</b>	-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 m<sup>2</sup>

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/cm<sup>3</sup>

**46000...** without thermometer, approx. 300 mm long

**46001...** without thermometer, approx. 160 mm long

**46004...** with thermometer

Length	300 mm	160 mm	350 mm	
Thermometer	Without	Without	0+35/40:1°C	
Range	Catalogue no.	Catalogue no.	Catalogue no.	
<b>1.000-1.060</b>	46000008	46001008	46004008	
<b>1.060-1.120</b>	46000009	46001009	46004009	
<b>1.120-1.180</b>	46000010	46001010	46004010	
<b>0.700-2.000</b>	46000040	46001040	46004040	Range finder

Scale range 0.100 g/cm<sup>3</sup>

**46012...** without thermometer, division 0.001 g/cm<sup>3</sup>

Length	300 mm
Thermometer	Without
Range	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/cm<sup>3</sup>

**46023...** without thermometer, division 0.002 g/cm<sup>3</sup>

**46025...** with thermometer, division 0.002 g/cm<sup>3</sup>

Length Thermometer Range	280 mm Without Catalogue no.	350 mm 0+35/40:1 °C 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/cm<sup>3</sup>, length approx. 35 cm

**46022003** Range 1.000-1.200 g/cm<sup>3</sup>

**46022004** Range 1.200-1.400 g/cm<sup>3</sup>

## Density hydrometers, different scale ranges, division 0.005 g/cm<sup>3</sup>

### without thermometer

Range:

**46040001** 0.700-1.000 g/cm<sup>3</sup>

**46040002** 1.000-1.300 g/cm<sup>3</sup>

**46040003** 1.300-1.600 g/cm<sup>3</sup>

**46040005** 1.000-1.400 g/cm<sup>3</sup>

**46040006** 1.400-2.000 g/cm<sup>3</sup>

**46040007** 1.000-1.500 g/cm<sup>3</sup>

### with thermometer

	Reference temperature	Division	Range	Length
<b>46041001</b>	+20 °C/+68 °F	0.005 g/cm <sup>3</sup>	0.700-1.000 g/cm <sup>3</sup>	approx. 32 cm

## Universal hydrometers

### without thermometer

	Division	Range	Length
<b>46105001</b>	0.010/0.020 g/cm <sup>3</sup>	0.700-2.000 g/cm <sup>3</sup>	approx. 33 cm
<b>46105003</b>	0.010 g/cm <sup>3</sup>	1.000-2.000 g/cm <sup>3</sup>	approx. 29 cm

### with thermometer

	Division	Range	Length
<b>46106001</b>	0.010 / 0.020 g/cm <sup>3</sup>	0.700-2.000 g/cm <sup>3</sup>	approx. 41 cm

## Hydrometers according to Baumé

46140... without thermometer

46141... with thermometer

	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
<b>46165001</b>	0-100	1	approx. 25 cm
<b>46165004</b>	0-30	0.5	approx. 32 cm
<b>46165005</b>	30-60	0.5	approx. 32 cm
<b>46165023</b>	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
<b>46175010</b>	0-100 weight % / volume %	1	approx. 25 cm

### with thermometer

Reference temperature +20 °C/+68 °F

	Range	Division	Length
<b>46176010</b>	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
<b>46197001</b>	+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
<b>46205010</b>	0.5	1.020-1.040	approx. 23 cm

### with thermometer

Reference temperature +20 °C/+68 °F

	Division	Range	Length
<b>46206010</b>	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
<b>46210010</b>	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
<b>46211010</b>	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/cm<sup>3</sup>),  
reference temperature +20 °C/+68 °F

	Range 1	Range 2	Length
<b>46223001</b>	0 - 30 : 0.5 % weight	1.000 - 1.230 : 0.002 g/cm <sup>3</sup>	approx. 27 cm

## Hydrometers for sea water

### without thermometer

1.000 - 1.040 : 0.0005 g/cm<sup>3</sup>  
reference temperature +20 °C/+68 °F

**46236001** Length approx. 25 cm

### with thermometer

1.000 - 1.040 : 0.0005 g/cm<sup>3</sup>  
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
<b>46269010</b>	+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
<b>46181010</b>	+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
<b>46120010</b>	0.005 g/cm <sup>3</sup>	0.700-2.000 g/cm <sup>3</sup>	approx. 18 cm

## Range finders

### without thermometer

	Division	Range
<b>46123020</b>	0.02 g/cm <sup>3</sup>	0.700-2.000 g/cm <sup>3</sup>

## Hydrometers for sodium hydroxide solution

### without thermometer

	Reference temperature	Range	Length
<b>46224001</b>	+20 °C/+68 °F	0 - 27 : 0.5 % weight	approx. 25 cm

## Hydrometers for phosphoric acid

### without thermometer

	Reference temperature	Range	Length
<b>46228001</b>	+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/cm<sup>3</sup>),  
reference temperature +20 °C/+68 °F

	Range 1	Range 2	Length
<b>46230001</b>	0 - 40 : 0.5 % weight	1.000 - 1.210 : 0.002 g/cm <sup>3</sup>	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
<b>46266001</b>	0-30: 1	approx. 20 cm
<b>46266003</b>	30-60: 1	approx. 20 cm
<b>46266007</b>	0-10: 0.1	approx. 28 cm
<b>46266024</b>	0-30: 0.2	approx. 30 cm
<b>46266032</b>	10-20: 0.1	approx. 28 cm
<b>46266040</b>	0-20: 0.1	approx. 38 cm

## Hydrometers for ammonia

### without thermometer

double scale 0.880-1.000: 0.002 g/cm<sup>3</sup>

	Reference temperature	Range	Length
<b>46186010</b>	+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/cm<sup>3</sup>

	Reference temperature	Range	Length
<b>46187010</b>	+20 °C/+68 °F	0-36: 0.5 % weight	approx. 30 cm

## Hydrometers for hydrogen peroxide

### without thermometer

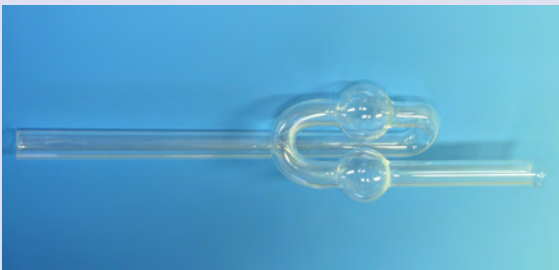
	Reference temperature	Range	Length
<b>46227010</b>	+20 °C/+68 °F	0-50: 1 % weight	approx. 27 cm

## Miscellanea

### Fermenting tubes

made of glass with 2 bulbs and extension

	Tube Ø	Total length
<b>41350010</b>	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

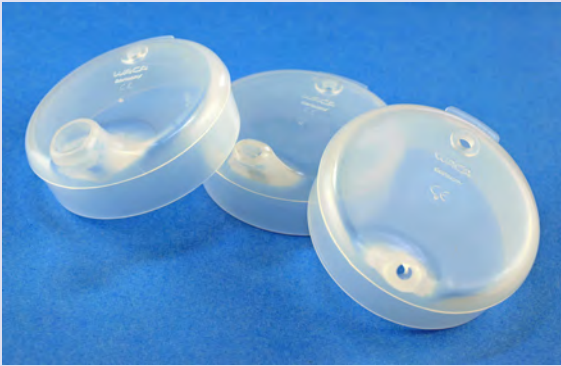


## Feeding cups, CE

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

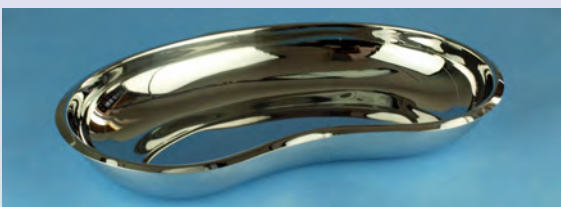
	Capacity	Colour
43112010	approx. 410 ml	white



### 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
<b>44092010</b>	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

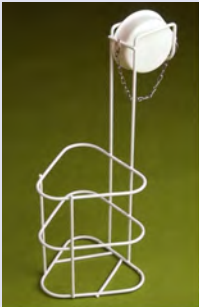
	Capacity	Resistant to steam sterilisation	Hot air
<b>44093010</b>	1000 ml	max. +125 °C/+257 °F	max. +135 °C/+275 °F



### 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

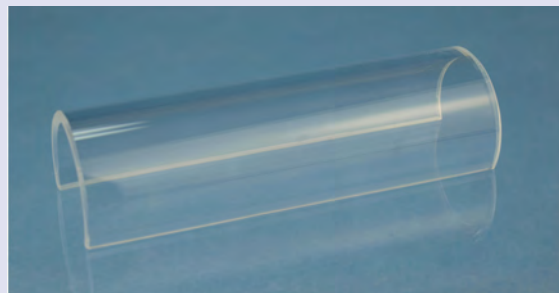
with wooden handle

**44106010** Dimensions approx. 470 x 160 x 70 mm

## Nameplate holder

made of Plexiglas®, for hospital bed

	Length	Ø
<b>42325010</b>	approx. 11 cm	approx. 3.5 cm



## Notepad for nameplate holder

**42325020** 25 sheets

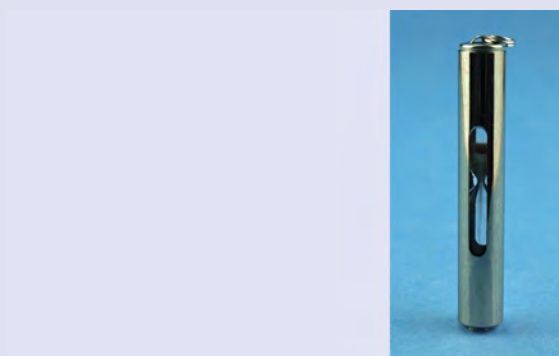


## Sand glasses (hourglasses)

in nickel-plated metal case

**42871010** 1/4 minute

**42871020** 1/2 minute

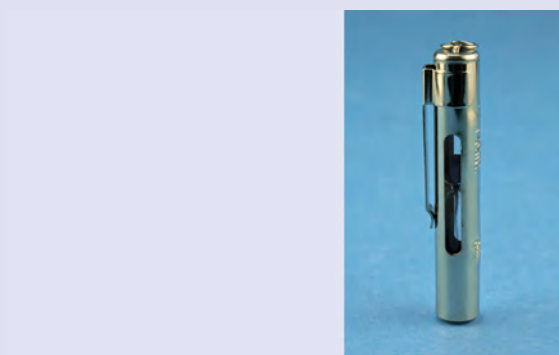


## Sand glasses (hourglasses) with clip

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
<b>40302010</b>	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
<b>40306010</b>	approx. 32 ml	approx. 50 mm	approx. 8 mm	approx. 85 mm (incl. pipette)



### Glass rods, both sides fused, CE

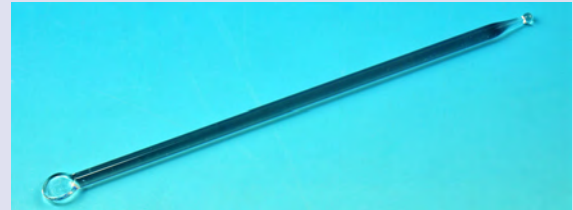
Clear glass, disposable, 100 pieces/pack

	Length	Ø
<b>40320010</b>	approx. 100 mm	approx. 3-4 mm

### Glass rods, with knob and spatula, CE

Clear glass, disposable, 100 pieces/pack

	Length	Ø
<b>40321010</b>	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
<b>40326010</b>	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
<b>40328010</b>	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

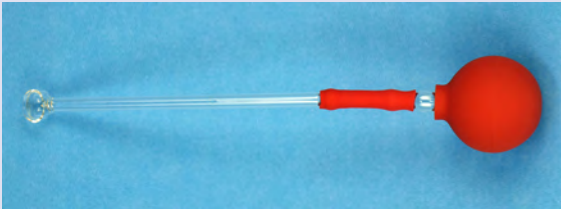
**42330010** Capacity approx. 30 g



### 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

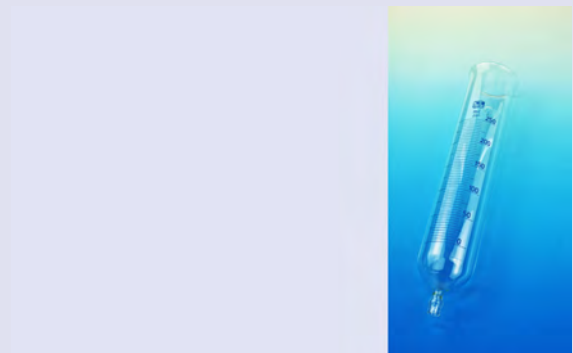
	Wall thickness	Outside Ø	Length
<b>42896010</b>	1.2 ± 0.05 mm	20.0 ± 0.25 mm	approx. 85 mm



## Infusion cylinders

with fused graduation "ASSISTENT-PERMANENT", hole at top, olive at bottom, for use in the veterinary medicine

	Division	Capacity
<b>41600018</b>	5 ml	approx. 250 ml
<b>41600030</b>	20 ml	approx. 1000 ml



## Specula, CE

made of clear glass, length approx. 15.5 cm

<b>43017001</b>	22-24 mm Ø
<b>43017002</b>	28-30 mm Ø
<b>43017003</b>	34-36 mm Ø
<b>43017004</b>	41-43 mm Ø





**Dilators, CE**  
made of glass

	Upper Ø cone	Cone length
<b>41024001</b>	approx. 20 mm	approx. 70 mm
<b>41024002</b>	approx. 28 mm	approx. 80 mm
<b>41024003</b>	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
<b>41865010</b>	approx. 20 mm	approx. 250 ml

## Baby feeding bottles made of borosilicate glass 3.3, wide neck with scale

	Capacity	Neck inside Ø
<b>41866010</b>	approx. 250 ml	approx. 30 mm



## Protective paper for treatment couch

White, 2 layers, perforated 38 cm, 100% cellulose

<b>44085001</b>	Roll 39 cm x 50 m
<b>44085002</b>	Roll 50 cm x 50 m
<b>44085003</b>	Roll 55 cm x 50 m
<b>44085004</b>	Roll 59 cm x 50 m



## Wire baskets, square

Stainless steel

<b>41075012</b>	Dimensions approx. 12 x 12 x 12 cm
<b>41075014</b>	Dimensions approx. 14 x 14 x 14 cm
<b>41075016</b>	Dimensions approx. 16 x 16 x 16 cm
<b>41075020</b>	Dimensions approx. 20 x 20 x 20 cm



## Applicators for cotton, beech wood, unpointed

Round, in bundles of 100 pieces, without cotton

	Length	Ø
<b>44300015</b>	approx. 15 cm	approx. 3 mm
<b>44300020</b>	approx. 20 cm	approx. 3 mm
<b>44300025</b>	approx. 25 cm	approx. 3 mm
<b>44300030</b>	approx. 30 cm	approx. 3 mm





### Applicators for cotton, beech wood, one end pointed

Round, in bundles of 100 pieces, without cotton

	Length	Ø
<b>44301015</b>	approx. 15 cm	approx. 3 mm
<b>44301020</b>	approx. 20 cm	approx. 3 mm
<b>44301030</b>	approx. 30 cm	approx. 3 mm
<b>44301035</b>	approx. 35 cm	approx. 3 mm



### Cotton sticks with one cotton end

100 pieces/pack

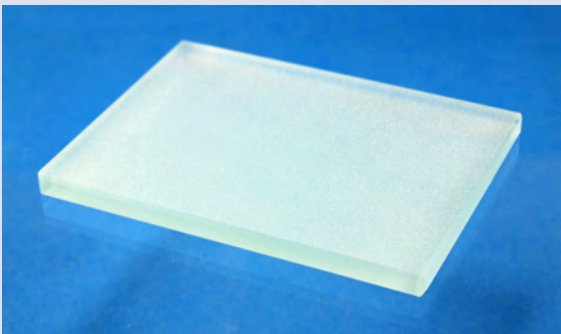
- 44302010** Length approx. 15 cm
- 44302020** Length approx. 20 cm
- 44302030** Length approx. 23 cm



### 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



### Dappen glasses

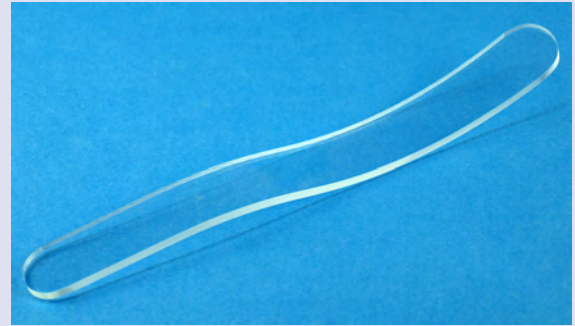
10 edges

- 41041004** green
- 41041008** crystal
- 41041012** rose
- 41041016** amber

## Tongue depressors made of Plexiglas®, CE

Bent

**44362010** Length approx. 20 cm



## 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 emplastic 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

<b>42884004</b>	beige
<b>42884008</b>	blue
<b>42884012</b>	yellow
<b>42884016</b>	green
<b>42884020</b>	violet
<b>42884024</b>	orange
<b>42884028</b>	pink
<b>42884032</b>	red
<b>42884036</b>	black
<b>42884040</b>	white



### Tape scissors

Stainless, with titanium coating, hardened blade

	Total length	Blade length
<b>42884110</b>	approx. 20 cm	approx. 8.5 cm



### Massage balls with spiky sensory points

made of flexible PVC, free of cadmium

	Ø	Colour
<b>42882008</b>	approx. 5.5 cm	orange
<b>42882016</b>	approx. 7 cm	green
<b>42882024</b>	approx. 8 cm	yellow
<b>42882032</b>	approx. 9 cm	red
<b>42882040</b>	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
<b>42885003</b>	approx. 3 cm	approx. 50 mm
<b>42885004</b>	approx. 4 cm	approx. 60 mm
<b>42885005</b>	approx. 5 cm	approx. 70 mm
<b>42885006</b>	approx. 6 cm	approx. 80 mm



### CE, without bulb

with tube olive at top

	Ø	Total height
<b>42886003</b>	approx. 3 cm	approx. 50 mm
<b>42886004</b>	approx. 4 cm	approx. 60 mm
<b>42886005</b>	approx. 5 cm	approx. 70 mm
<b>42886006</b>	approx. 6 cm	approx. 80 mm





### Massage cupping glasses without olive, without bulb, CE

	Height	Ø
<b>42887010</b>	approx. 11 cm	approx. 5 cm
<b>42887020</b>	approx. 9 cm	approx. 3 cm



### with olive, without bulb, CE

	Height	Ø
<b>42888010</b>	approx. 11 cm	approx. 5 cm
<b>42888020</b>	approx. 9 cm	approx. 3 cm



### with olive and bulb, CE

Bulb made of flexible PVC, free of cadmium

	Ø	Height without bulb
<b>42889001</b>	approx. 3 cm	approx. 9 cm
<b>42889010</b>	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

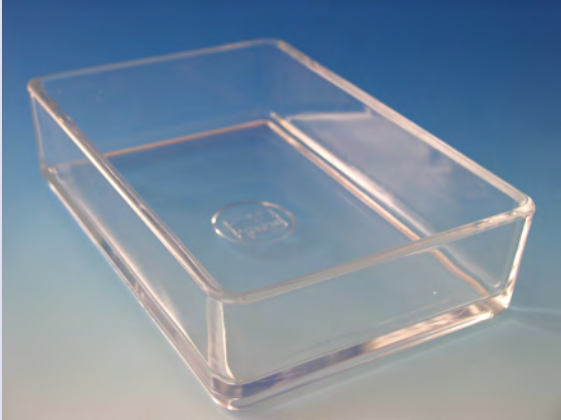
	Ø	Bulb dimension
42893001	approx. 2.5 cm	approx. 56 x 51 mm
42893002	approx. 3.5 cm	approx. 56 x 51 mm
42893003	approx. 4.4 cm	approx. 61 x 56 mm
42893004	approx. 5.0 cm	approx. 61 x 56 mm
42893005	approx. 6.5 cm	approx. 61 x 56 mm



## 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:

<b>44405006</b>	approx. 10 x 2.5 mm Ø
<b>44405012</b>	approx. 10 x 5 cm Ø
<b>44405018</b>	approx. 8 x 8 cm Ø
<b>44405024</b>	approx. 10 x 10 cm Ø
<b>44405030</b>	approx. 12 x 12 cm Ø
<b>44405036</b>	approx. 15 x 15 cm Ø
<b>44405042</b>	approx. 18 x 18 cm Ø
<b>44405048</b>	approx. 21 x 21 cm Ø
<b>44405054</b>	approx. 12 x 8 cm Ø
<b>44405060</b>	approx. 20 x 8 cm Ø
<b>44405066</b>	approx. 15 x 10 cm Ø
<b>44405072</b>	approx. 20 x 10 cm Ø
<b>44405078</b>	approx. 30 x 10 cm Ø



### Glass covers

with knob, for jars no. 44405...

<b>44409018</b>	for 8 cm Ø
<b>44409024</b>	for 10 cm Ø
<b>44409030</b>	for 12 cm Ø
<b>44409036</b>	for 15 cm Ø
<b>44409042</b>	for 18 cm Ø



### Glass jars

Drop-on cover with knob

Dimensions:

<b>44410018</b>	approx. 8 x 8 cm Ø
<b>44410024</b>	approx. 10 x 10 cm Ø
<b>44410030</b>	approx. 12 x 12 cm Ø
<b>44410036</b>	approx. 15 x 15 cm Ø
<b>44410042</b>	approx. 18 x 18 cm Ø
<b>44410054</b>	approx. 12 x 8 cm Ø
<b>44410060</b>	approx. 20 x 8 cm Ø
<b>44410066</b>	approx. 15 x 10 cm Ø
<b>44410072</b>	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

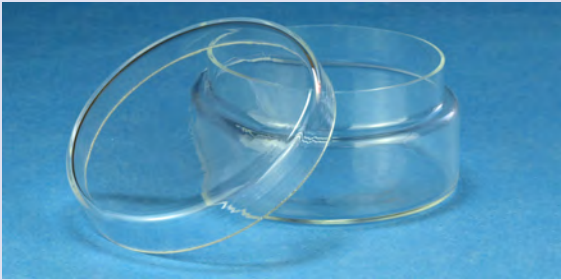


## Cotton dispenser (Delivery without cotton)

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
<b>41050004</b>	approx. 25 mm	approx. 40 mm
<b>41050005</b>	approx. 30 mm	approx. 50 mm
<b>41050006</b>	approx. 35 mm	approx. 60 mm
<b>41050008</b>	approx. 40 mm	approx. 80 mm
<b>41050010</b>	approx. 50 mm	approx. 100 mm
<b>41050012</b>	approx. 60 mm	approx. 120 mm
<b>41050015</b>	approx. 75 mm	approx. 150 mm



### Glass jars for dressing forceps

including stainless steel cover with aperture

	Height	Outside Ø
<b>41965012</b>	approx. 12 cm	approx. 8 cm
<b>41965020</b>	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

<b>44440007</b>	Dimensions approx. 9 x 3 cm Ø
<b>44440014</b>	Dimensions approx. 10 x 5 cm Ø
<b>44440021</b>	Dimensions approx. 13 x 5 cm Ø
<b>44440028</b>	Dimensions approx. 17.5 x 5 cm Ø
<b>44440035</b>	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



## A

Accessories for Assimat	81
Accessories for dispensers	92 - 94
Accupipex	230
Adapters for dispenser tips	90
Adapters for standard grounds	93
All-gas Bunsen burners	221
Allihn condensers	183
Analytical funnels	217
Applicators for cotton	291 - 292
AQUACLEAN	35
Aquademat	253
Aspirator bottles made of HDPE	163
Assembly set	191
Assi-Stepper, manual dispenser	88
Assipettor capillary piston pipette fix	85
Assipettor digital	84
Automatic burettes	138 - 141
Automatic tilting pipettes	186 - 187

## B

Büchner funnels made of porcelain	240
Baby feeding bottles	290 - 291
Bath thermometer	262 - 263
Bath thermometer for hospital	262
Beakers	164 - 165
Beakers made of polypropylene	165
Bedpans	283
Bends	208
Blood capillaries	22
Blood counting pad	22
Blood diluting pipettes	14 - 15
Blood lancets	13
Blood mixing tubes	17
Blood sedimentation apparatus	17
Blood sedimentation pipettes	18 - 19
Blood smear slide	69
Blotting paper	73
Blue glass plates	201
Boiling stones	193
Bosshead, double	109
Bottle brushes	153
Bottles for analysis of drinking water	161
Bottles for Canada balsam	77
Bottles for cedar oil	74
Bottles made of LDPE	158, 160
Bottles made of polypropylene	160
Bottles with conical shoulder	153 - 155
Bottles with conical shoulder made of polypropylene	159
Bottles with high shoulder made of LDPE	159
Bottles with standard ground	142

Boxes	302
Breast pumps	290
Brushes for beakers	166
Brushes for centrifuge tubes	175
Brushes for hemometer measuring tubes	21
Brushes for sediment cones	213
Brushes for urinals	284
Brushes for Westergren pipettes	19
Bunsen burners	221 - 222
Bunsen burners LABOGAZ®	222 - 223
Burette clamps	110
Burettes	100 - 106
Burette stands	109
Burette stopcocks	106 - 107
Burette tips	99

## C

Calcium chloride tubes	180
Capillary holder	24
Capillary tubing	219 - 220
Carbon electrodes	215
Cartridges with butane gas	223
Casseroles made of porcelain	240
Cellulose stoppers	178
Centrifuge tubes	175 - 179
Centrifuge tubes ASTM	180
Chemical spoons	195
Chemical thermometers	260
Claisen still heads	209
Clamps	110, 229
Cleaning agent	255
Clinical thermometers	262
Clips for conical ground joints	207
Coil condensers	183 - 184
Combustion boats	241
Communicating vessels	197 - 198
Condenser clamps	111
Condenser tube	184
Cones	207
Cones with standard ground	206
Cork borer set	198
Cork rings for flasks	206
Cork stoppers	199
Cotton dispenser	301
Cotton sticks	292
COUNTER	28
Counters, manual	28
Counting chamber according to McMaster	43
Counting chambers	38 - 43
Cover glasses	54
Cover glasses, circular	55



Cover glasses, selected thickness	55	Evaporating dishes made of glass	144 - 145
Cover glasses for hemocytometers	37	Evaporating dishes made of porcelain	240
Cover glass forceps	75	Extraction apparatus according to Soxhlet	181
Cover made of PTFE, grooved	32	Eye baths	286
Cover made of PVC	133	Eye douches	286
Covers for crucibles	242	Eye drop bottles	286
Covers for medicine cups	280		
Covers made of stainless steel	301	<b>F</b>	
Crucibles made of porcelain	241	Face shield	293
Crucible tongs	200	Faecal tubes	239
Crystallising dishes	145	Feeding cup covers	282
Cupping glasses	297	Feeding cups	281
Cuvettes, semi-micro	31	Fermentation saccharometer	23
		Fermenting tubes	278
<b>D</b>		Filter discs	193
Dappen glasses	292	Filter funnels	192
Demeter pipettes	129	Filter heads	192
Desiccators	187 - 188	Filtering flasks	191 - 192
Digital burette "Contiburette $\mu$ 10"	90	Filtering jars	192
Digital clinical thermometer	262	Filter media	190 - 191
Digital thermometer	267	Flasks, pear shape	204
Dilators made of glass	290	Flasks, pointed shape	204
Dishes made of melamine	237	Flat bottom flasks	204 - 205
Dispenser	80	Flexible brush	206
Dispenser digital	91	Flow monitors	36
Dispenser tips	89	Fluorescence cuvettes	31
Dispenser variable	92	Freezer-fridge thermometers	264
Disposable cuvettes, polystyrene	29	Freezer thermometers	264
Disposable micropipettes with ring mark	25	Funnels	217 - 218
Disposable pipette tips	83	Funnels made of HDPE	219
Disposable volume capillaries	24 - 25	Funnels made of polypropylene	219
Disposal boxes	238		
Dissecting needles	69	<b>G</b>	
Distillation thermometers	261	Gas burners according to Teclu	222
Distilling flasks	209	Gas washing bottles	210
Double rubber bulbs	139	Glass-writing diamond pen	77
Draining boards	238	Glass beads	193
Draining racks	238	Glass covers	61, 300
Drigalski spatulas	76	Glass cylinders	121 - 122
Dropping bottles	157 - 158	Glass jars	300 - 301
Dropping bottles made of LDPE	159	Glass jars for dressing forceps	302
Dropping pipettes	287	Glass jars with cover with knob	61
Dropping screw caps	157	Glass parts	214
Drying rack for microscope slides	73	Glass plates	67 - 69, 74
DURAN® YOUTILITY Laboratory bottles	151 - 152	Glass plates (Cementum plates)	292
Dye-bath set	61	Glass rod for cupping glasses	296
		Glass rods	220, 286 - 287
<b>E</b>		Glass tanks	146
Enzyme test pipettes	15	Glass trough	61
Erlenmeyer flasks	203	Glass tube cutters	220
Erlenmeyer flasks, baffled bottom	168	Glass tubes for coagulation	16
Erlenmeyer flasks, narrow neck	166 - 167	Glass tubing	219 - 220
Erlenmeyer flasks, wide neck	167	Glass vials	174 - 175

Glass wool	194	macro-Pipex	230
Griffin beakers	165	macro Assipettor	84
<b>H</b>			
Hematocrit sealing material	27	macro pipettors	230
Hematocrit tubes	16	Magnesia grooves	201
Hemoglobin pipettes	22	Magnesia rods	201
Hemometer dropping pipettes	21	Magnetic stirrer	246 - 249
Hemometer measuring tubes	21	Magnetic stirring bars	249 - 251
Hemometers	20	Manometers	266
Hemometer stand	21	Marker pens	76
Hemometer stirring rods	21	Marking rings for YOUTILITY laboratory bottles	152
Histokitt	75	Massage balls	294 - 295
Hooks made of nickel-chromium steel wire	11	Massage cupping glasses	296
Hydrometers	272 - 278	Maximum-minimum thermometers	265, 268 - 269
Hydrometers for wine and must	276	Maximum thermometers	260 - 261
<b>I</b>			
Immunofluorescent printed slides	56 - 57	Measuring cylinders	118 - 123
Indicator sticks	190	Measuring cylinders, PMP	125
Infusion cylinders	289	Measuring cylinders made of polypropylene	124 - 126
Inoculation loops	12	Measuring jugs	126 - 127
Instrument trays	298 - 299	Measuring jugs made of polypropylene	127
Iron wire gauzes	226	Measuring jugs made of porcelain	241
<b>J</b>			
Jars for clinical thermometers	302	Measuring pipettes	131 - 132
Jar with base and spout	33	Measuring pipettes made of polypropylene	130
<b>K</b>			
Kapsenberg caps	172	Measuring scoops	197
Kidney dishes	282	Measuring tube	23, 211
Kinesiology tape	294	Medicine cups	280
Kjeldahl flasks	163	Medicine dispensers	280
<b>L</b>			
Labels for YOUTILITY laboratory bottles	153	Medicine glasses	280
Laboratory lifter	198	Medicine spoons	281
Laboratory mats	229	Medicine tray	281
Laboratory protective plates made of glass ceramic	225	Melting point determination device	200
Laboratory timers	256 - 258	Melting point determination tubes	200
Laboratory tray	237	Micro-Pipex	26
Laboratory tubing	226 - 227	Micro burettes	98 - 99
Lactodensimeters	275	Micro cuvettes	32
Lead rings	169	Micro hematocrit capillaries	27
Lens tissue paper	75	Micro Life® - Microscope slides	56
Liebig condensers	183	Microscope slide dispenser	74
Litmus paper	189	Microscope slide drying bench	74
Loops made of nickel-chromium steel wire	11	Microscope slide pipette	68
<b>M</b>			
		Microscope slides	67, 71 - 73
		Microscope slides made of opal glass	68
		Microscope slides Polysine®	71
		Microscope slides Superfrost®	70 - 71
		Mini centrifuge	48
		Mini magnetic stirrer	246 - 247, 249
		Mini stirrer	242
		Mixing cylinders	123
		Mortars made of glass	194
		Mortars made of melamine	194
		Mortars made of porcelain	241
		Mouthpieces	16
		Multichannel pipette	94
		<b>N</b>	



Self-adhesive labels	153	Suction rubber caps	19
Separatory funnels	215 - 217		
Shaker	45, 47 - 48	<b>T</b>	
Shaking bottles	212	Temperature data logger	268
Silicone stoppers	227	Test tube brushes	174
Single channel pipettes	82	Test tube caps LABOCAP	172
Sleeves for ground joints	208	Test tube holders	175
Slide box	53	Test tube racks	232 - 236
Slide cases	51 - 52	Test tubes	169 - 174
Slide folders	51	Test tubes, disposable	170
Sockets with standard ground	206	Test tubes, flat bottom	173, 175
Spare burettes	105	Test tube shakers	245
Spare cartridge	252 - 253	Thermometer, electronic	266
Spare discharge tube made of PTFE	91	Thermometers based on the principle of Galileo Galilei	263
Spare parts	181 - 182, 230, 254	Thermostatic water bath	35
Spare plunger rods	86 - 87	Thread adapters	93, 213
Spare plunger seals for macro Assipettors	86	Thread bottles, amber glass	93
Spare seals made of PTFE	87	Tips made of polypropylene for macro Assipettors	85
Spare spray tubes	186	Tongue depressors	293
Spare stopcock made of polypropylene	163	Tonsil suction set	288
Spare stopcocks for desiccators	188 - 189	Triangles made of iron wire	225
Spare suction bellows	26	Tripods	224 - 225
Spare support for Assi-Stepper	88	Tubes for urinalysis	24
Spare tonsil suction tubes	288	Tubes made of clear glass	282
Spare wheels	220	Tubing clamps	229
Special tips	94	Tubing connectors	185
Specimen jars	146 - 147	Tubing connectors made of glass	184 - 185
Specula	289	Two-way stopcocks	108
Sperm cylinders	124		
Spirit lamps	223 - 224	<b>U</b>	
Spoon spatulas	196	Ungraduated pipettes	132
Spray bottles made of polyethylene	161	Universal bosshead, double	109
Sputum cups	282	Universal indicator paper	189
Square bottles made of HDPE	160	Urinals	283 - 284
Staining bridge	58 - 59	Urinal supports made of wire	284
Staining dishes	63 - 64	Urine collecting bottles made of HDPE	162
Staining jars	62, 64	Urine collecting containers	162
Staining prisms	62	Urine specimen cups	34
Staining rack	59 - 60	Urine specimen cups, disposable	239
Staining stands	57 - 58	Urine specimen jars	34
Staining stands with pipette bottles	66 - 67	Urinometer	33 - 34
Staining trays	59, 61, 65	Urinometers	32 - 33
Staining troughs	61, 64 - 65		
Stainless steel covers	298, 302	<b>V</b>	
Stainless steel jars	303	Vaccine dishes	77 - 78
Still heads	208	Vinometers	278
Stirrer	243	Voltameters	214
Stirring rods	221, 244	Volumetric flasks	112 - 115
Stirring spatula	32	Volumetric flasks, trapezoidal	116
Stopcock grease	109	Volumetric flasks for sugar analyses	116
Stopper holders	211	Volumetric pipettes	135 - 137
Stoppers	199	Volumetric pipettes, PP	136
Storage stand	83, 85		
Suction glasses	295		

**W**

Washing bottle heads	210
Washing bottles	186
Washing bottles made of LDPE	159
Water-jet pumps	213 - 214
Water bath racks	36 - 37
Water deioniser	252
Water determination device	211
Water distilling apparatus	252
Weather station	269
Weighing boats	197
Weighing bottles	145 - 146
Weighing scoops	197
Wicks	224
Wide neck bottles	148, 156
Window thermometers, Vienna type	265
Wire baskets	291
Wire handles	65
Wire rack	237
Wooden racks	213



# ORDER NUMBERS

40010	144	40190	93	40444	40	40734	32
40011	144	40193	93	40445	40	40765	290
40012	145	40194	93	40446	41	40766	290
40033	11	40199	94	40447	41	40780	99
40034	11	40210	90 - 91	40449	41 - 42	40791	100
40035	11	40212	90	40450	42	40792	101
40036	11	40225	252	40452	42	40793	101 - 102
40037	11	40240	32	40453	43	40795	102 - 103
40038	12	40241	33	40454	43	40796	105
40039	12	40242	33	40455	20	40797	105
40040	12	40245	33	40456	20	40798	106
40041	12	40247	33	40457	21	40799	106
40070	146	40248	34	40458	21	40811	103
40075	252	40302	286	40459	21	40812	104
40076	252	40303	286	40460	22	40820	104
40080	253	40306	286	40467	22	40821	105
40087	253	40320	286	40470	21	40823	105
40088	253	40321	287	40471	21	40850	139
40101	82	40326	287	40514	16	40860	109
40102	82	40328	287	40521	98	40861	109
40104	83	40334	287	40523	99	40862	109
40110	83	40335	287	40535	16	40863	109
40111	83	40344	28	40545	15	40865	110
40112	83	40345	28	40551	24	40866	110
40120	94	40347	45	40553	24	40868	110
40122	88	40348	44 - 46	40554	25	40869	110
40123	89	40349	46	40555	25	40870	110
40124	89	40350	47	40557	25 - 26	40871	110
40125	90	40351	47	40558	26	40875	111
40126	90	40352	48	40559	23	40895	180
40131	84	40353	48	40560	22	40896	180
40132	84	40355	14	40563	27	40920	74
40134	85	40356	15	40564	27	40930	180
40135	85	40357	14	40565	27	40931	180
40137	85	40358	14	40566	27	40937	175
40138	86	40359	15	40567	28	40938	175
40140	85	40360	16	40568	29	40939	176
40144	86	40361	16	40569	29	40940	176
40146	86	40365	13	40619	69	40942	176
40147	86	40366	13	40623	69	40943	176
40154	86	40367	17	40624	69	40944	177
40155	87	40377	17 - 18	40625	69	40946	177
40156	87	40379	17	40705	29	40947	177
40157	87	40380	18	40706	29	40948	177
40163	80	40382	18	40710	30	40949	177
40164	81	40385	19	40712	30	40950	178
40165	81	40388	19	40713	30	40951	178
40173	91	40389	19	40715	31	40955	178
40175	92	40440	38	40717	31	40956	178
40183	92	40441	39	40720	31	40958	179
40187	92	40442	39	40722	32	40959	179
40188	93	40443	39 - 40	40729	32	40970	179

# ORDER NUMBERS



40976	179	41186	59	41321	155	41591	228
40990	54	41187	59	41322	147	41593	198
41000	54	41190	59	41323	147	41594	199
41001	55	41191	59	41324	148	41596	228
41014	55	41192	59	41325	148	41598	229
41015	55	41198	60	41326	149	41600	289
41019	75	41200	60	41330	149	41710	77
41020	75	41201	60	41331	150	41720	77
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	292	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



# ORDER NUMBERS

42000	237	42284	127	42540	131	42775	172
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	68	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	66	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	67	42818	236
42109	116	42427	68	42620	66	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 - 64	42702	52	42845	220
42182	120	42470	64	42703	52	42847	220
42190	120	42480	64 - 65	42704	52	42850	221
42194	124	42481	65	42705	53	42856	185
42195	125	42482	65	42712	69	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	294
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	295
42260	127	42521	196	42769	170	42887	296
42281	126	42525	130	42770	171	42888	296
42283	126	42539	131	42771	171	42889	296



# ORDER NUMBERS



42890	297	43510	263	44268	211	46211	275
42891	297	43513	264	44272	212	46223	276
42892	297	43595	264	44274	212	46224	277
42893	297	43599	264	44275	212	46227	278
42894	296	43600	264	44276	212	46228	277
42896	289	43605	265	44277	213	46230	277
42900	298	43623	265	44278	270	46236	276
42905	298	43646	265	44279	213	46250	276
42906	298	43647	265	44280	213	46252	276
42910	298	43653	268	44283	213	46265	277
42911	299	43655	269	44284	214	46266	277
42915	299	43656	269	44285	214	46269	276
42950	215	43657	269	44286	214	47000	240
42951	215	43690	262	44287	214	47002	240
42956	215	43698	262	44288	214	47005	240
42970	216	43700	262	44289	215	47015	240
42971	216	43711	263	44295	301	47020	241
42985	216	43720	263	44300	291	47028	194
42986	217	43990	217	44301	292	47029	194
42990	199	43991	217	44302	292	47030	241
42992	199	44000	218	44303	292	47031	241
43004	200	44001	218	44355	292	47032	194
43005	200	44002	218	44362	293	47033	195
43006	200	44010	281	44365	293	47035	241
43010	200	44011	282	44400	121	47040	241
43017	289	44020	282	44401	122	47041	242
43030	223	44075	254	44405	300	48400	138
43031	224	44080	254	44409	300	48410	139
43033	224	44085	291	44410	300	48415	140
43091	186	44090	283	44411	301	48416	140
43092	186	44092	283	44415	301	48452	141
43112	282	44093	284	44416	301	48462	141
43150	283	44104	284	44420	303	49025	238
43155	283	44106	284	44440	302	49027	238
43170	35	44108	284	44508	239	49028	238
43178	36	44115	239	46022	273	49040	49
43180	35	44116	162	46040	273	49050	219
43187	36	44122	34	46041	273	49051	219
43188	36	44125	34	46105	273	49064	237
43194	36	44131	237	46106	273	49070	238
43200	260	44160	184	46120	277	49075	293
43201	260	44161	185	46123	277	49100	158
43205	260	44171	185	46165	274	49101	158
43206	261	44173	185	46175	275	49102	159
43208	261	44174	185	46176	275	49103	159
43210	261	44200	278	46178	275	49105	159
43225	261	44240	197	46181	276	49108	159
43232	266	44245	197	46186	278	49112	160
43235	267	44248	197	46187	278	49115	160
43238	267	44250	145	46197	275	49116	160
43240	268	44251	146	46199	276	49117	162
43252	254	44263	37	46205	275	49118	162
43310	262	44265	211	46206	275	49119	161
43315	262	44267	211	46210	275	49125	161



## ORDER NUMBERS

49126	161
49130	163
49131	163





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