



Assistent.

Glaswarenfabrik Karl Hecht GmbH & Co KG



CATEGORIES

HEALTHCARE.
LIFE SCIENCE.
LIQUID HANDLING.
VOLUMETRIC INSTRUMENTS.
LABORATORY EQUIPMENT.

ABOUT US

Quality for over 105 years

For over 105 years, our company has symbolised precision and quality awareness in the production of glass instruments. In 1919, Karl Hecht laid the foundation for today's business in Sitzendorf-Unterweißbach, Thuringia. After the Second World War, a new beginning took place in 1945 in Sondheim vor der Rhön, Bavaria, followed by a phase of dynamic expansion: in 1948, a second German branch was opened in Bernhausen, followed in 1962 by international locations in Switzerland, France and Austria.

With the expansion of its product and distribution network, the company consolidated its market position over decades. In 1995, its quality management system was certified according to DIN EN ISO 9001. From 2009 onwards, the company underwent a strategic realignment: Sondheim became the central production facility, while the foreign locations functioned purely as sales offices. Today, we are represented in Germany and Switzerland but operate worldwide.

Our company philosophy

We stand for precision, quality and tradition.

Customer satisfaction is our top priority. That is why we offer not only high-quality standard products, but also customised solutions for individual requirements.

Our employees dedicate their experience and expertise every day to ensure the highest quality standards. The respectful treatment of partners, customers and colleagues, as well as sustainable practices, are integral parts of our corporate culture.

Looking to the future, we remain committed to our tradition and are constantly developing our products and processes – for progress in the world of glass instruments.

TRADEMARKS

ASSISTENT PREMIUM

Our Premium Line stands for the highest level of quality, precision, and reliability.

The products are frequently manufactured in our own facilities or in close cooperation with selected, exclusive partners operating under the most stringent quality management standards. The use of high-grade materials and state-of-the-art manufacturing technologies ensures consistently outstanding performance.

The Premium Line is the first choice for demanding laboratory applications where maximum precision, durability, and process reliability are essential.



ASSISTENT BASIC

Basic Line – reliable and cost-efficient

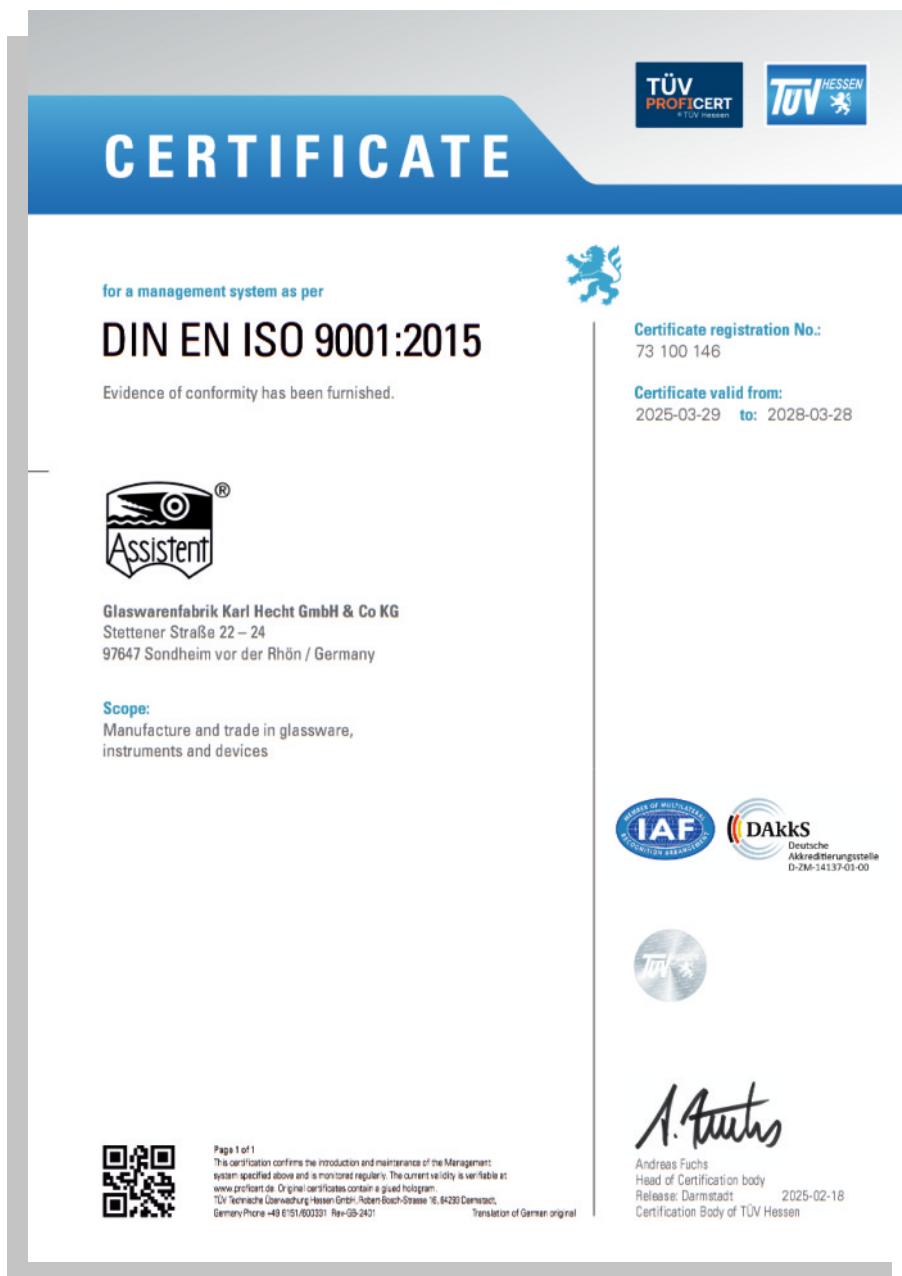
The Basic Line offers a high-quality product portfolio at an attractive and competitive price point. All products are manufactured and tested in accordance with defined quality standards to ensure dependable performance in everyday laboratory use.

This product line is particularly well suited for laboratories that require solid quality and functionality while maintaining a cost-efficient budget.



CERTIFICATIONS

Our quality management system was first certified in 1995.
Our company is currently certified according to DIN EN ISO 9001:2015.



Authorised Economic Operator (AEO)

We are an Authorised Economic Operator. This enables us to export our goods under a simplified customs procedure.

www.assistent.eu

QUALITY MANAGEMENT

REPAIRS

Repairs will only be carried out if the defective device has been properly cleaned, sterilised or decontaminated and the repair is economically viable. We reserve the right to request a certificate of safety.

GRADUATION

The graduations are subject to ongoing quality improvements through regular monitoring tests of colour resistance, precision, etc. Blue, white and red graduations are fused and baked in to be resistant to acids and alkalis. Brown graduations are fused into the glass surface and thus offer absolute resistance for the highest demands. State-of-the-art adjustment devices guarantee a high degree of accuracy for the volume measuring devices, resulting in the following designs:

Standard version

1.5 times the error limit of class A/class AS for the total volume (therefore more accurate than class B)

Certified version

With the marking DE-M, followed by the last two digits of the year in which the marking was affixed, we confirm that volume measuring devices comply with the applicable German Measurement and Calibration Regulation (Deutsche Mess- und Eichverordnung).

MEASUREMENT AND CALIBRATION REGULATION

The new German Measurement and Calibration Regulation, valid since January 1st 2015, requires volume measuring devices that are used and kept ready for measurements in the medical and pharmaceutical sectors to have a certificate of conformity from the manufacturer. This is fulfilled by the DE-M marking.

Conformity ensures that a device complies with the German Measurement and Calibration Regulation and the applicable standards. The exact procedure can be found in the German Measurement and Calibration Regulation. Responsible for the use and provision of conformity-certified devices is the user. The certificate of conformity is valid indefinitely, unless otherwise specified by the manufacturer. Conformity-certified devices that were produced before January 1st 2015 may also continue to be used. Conformity is certified by 'Assistent' directly on the devices. For single-use capillary pipettes, this is indicated on the smallest packaging unit, and for liquid handling devices, it is indicated in the enclosed instructions for use.

PLEASE NOTE

All information in this catalogue has been compiled to the best of our knowledge and belief using the latest data, which is regularly updated and may therefore vary.

All data is approximate, except of course for precision measuring instruments. Dimensions, volumes, etc. may therefore differ slightly.

The data is valid as of November 2025.

GENERAL INFORMATION ON VOLUMETRIC INSTRUMENTS

Calibrated to contain: designation "In"

The basis for measurement for the graduation is the poured or drawn-in liquid volume. It is recommended to rinse capillary pipettes adjusted to the tip.

Calibrated to expiry: designation "Ex"

The basis for measurement for graduation is the amount of liquid flowing out of the device. Do not blow out residual liquid! (Only blow out if using blow-out pipettes that are designated as such.)

Adjustment to partial expiry (not divided to the tip): As above. During expiry, set the meniscus to the lowest mark, e.g. for enzyme pipettes, burettes or even full pipettes with 2 marks.

General instructions for using measuring pipettes, volumetric pipettes and burettes: Fill burettes 5 mm and measuring and volumetric pipettes 10 mm above the desired mark, drain the liquid to the mark and wipe off the drop remaining on the tip. Hold the pipette vertically when pipetting, placing the tip on the inside wall of the vessel. Allow the pipette contents to flow to about 10 mm above the graduation mark for the desired volume and stop. Then slowly adjust to the graduation mark. With the outlet tap fully open, allow the burette contents to flow to about 5 mm above the desired graduation mark and stop. Then carefully adjust to the graduation mark. If necessary, allow the remainder to flow out after a waiting period. Observe the waiting times specified in the catalogue or on the devices. The surface-hardened tips of the pipettes and burettes are calibrated to achieve precise measurements. They must not be damaged. Measuring pipettes from 5 to 25 ml generally have a narrowing in the suction tube for inserting a cotton wool plug – extra safety space above the scale.

MEDICAL DEVICES ACT

The Medical Devices Act regulates the placing on the market of products covered by Directive (EU) 2017/745 on medical devices and Directive (EU) 2017/746 on in vitro diagnostic medical devices. The products must bear a CE mark and may only be placed on the market within the European Union if they bear the CE mark. The manufacturer is responsible for ensuring that the products are placed on the market in accordance with the regulations. The manufacturer is the person or company indicated on the product or packaging. We would like to point out that the Medical Devices Act requires a system to be set up for medical devices that enables the traceability of the products and the reporting of incidents involving these products.

OEM YOUR BRAND - OUR QUALITY

Fast Track to Your Private Label Portfolio

With our OEM program, you gain direct access to a proven portfolio of high-quality laboratory and medical products. Leverage our long-standing expertise in laboratory, diagnostics, and medical technology to bring your own product line to market quickly, efficiently, and reliably..

Your Path to a Finished Private Label Product Line

1. Product Selection & Quotation

You select the products – we provide a customized quotation.

2. Branding & Packaging

You provide your logo and design guidelines. Upon request, we also support you with layout and design.

3. Marketing & Product Materials

Flyers, product information sheets, and other sales materials are created for you individually in your corporate design.

4. Production & Delivery

We handle manufacturing, assembly, and packaging.

You receive fully branded, ready-to-sell products.

Blanks: quality products without branding

Do you require high-quality laboratory and medical products without any branding?

Our blanks provide direct access to proven quality products from our production, supplied in a neutral, unbranded format.

They are ideal for individual customization, repackaging, or further processing.

Benefit from short lead times and high availability—without compromising precision, quality, or reliability.

HEALTHCARE.

Eye baths



The eye baths are made of high-quality, durable polypropylene and are ideal for safe and hygienic cleaning.

Note: Please only use sterile liquids for the procedure and clean the eye bath after each use.

- + packed 10 pcs in a poly bag
- + made of polypropylene
- + classification: Class 1



| Art.No. | Capacity (ml) | Height (mm) | Diameter (mm) |
|----------|---------------|-------------|---------------|
| 40302010 | 25 | 37 | 42 |

Glass rods both sides fused

Note:

Glas swabs should be carefully cleaned and sterilized after each use to ensure a safe reuse.



- + packed in pieces of 100
- + for multiple use

| Art.No. | Length (mm) | Diameter (mm) | Material |
|----------|-------------|---------------|----------|
| 40320010 | 100 | 3 - 4 | AR-Glas® |

Glass rods with knob and spatula

Note:

Glas swabs should be carefully cleaned and sterilized after each use to ensure a safe reuse.



- + packed in pieces of 100
- + for multiple use

| Art.No. | Length (mm) | Diameter (mm) | Material |
|----------|-------------|---------------|----------|
| 40321010 | 100 | 3 - 4 | AR-Glas® |

Dropping pipettes with straight end

The straight tip enables precise dosing and application of liquids.



- + packaged in pieces of 100
- + clear glass
- + without rubber teat

| Art.No. | Length (mm) | Diameter (mm) | Material |
|----------|-------------|---------------|----------|
| 40326010 | 80 | 7 - 8 | AR-Glas® |

Dropping pipettes

- + with two extensions
- + according to DAB (German Pharmacopoeia)
- + one end smoothly fused
- + one end with 2 spherical extensions (10 mm Ø)



This dropper complies with the specifications of the German Pharmacopoeia (DAB) and is therefore particularly suitable for use in medical and pharmaceutical applications. The two spherical extensions ensure precise regulation of the drop size and facilitate dosing.

| Art.No. | Length (mm) | Material |
|----------|-------------|----------|
| 40334010 | 150 | AR-Glas® |

Dropping pipettes with German inscription



This dropper is labeled to indicate the standard dosage of 20 drops per gram. It is ideal for standardized dispensing of drops & is particularly suitable for pharmaceutical and medical applications where accuracy is crucial.

Normally:
20 drops = 1 g

| Art.No. | Length (mm) |
|----------|-----------------|
| 40335010 | 85 |
| Material | Soda-lime glass |

Medicine cups

- + with practical graduation for precise dosing
- + for single-use

The single-use multipurpose cups and the associated lids comply with all relevant EU directives and have CE mark as a sign of their conformity with the applicable health and safety standards.



CE

Covers

suitable for
medicine cups
Art.No. 41102



| Art.No. | Material |
|-----------|---------------|
| 41102015 | Polypropylene |
| Colour | PU (pcs) |
| white | 500 |
| Box (pcs) | |
| | 4000 |

Medicine dispensers

Perfect for patients of all ages who need to take medication several times a day. The dispenser helps to organise the daily intake of medication and supports care staff and relatives in monitoring the correct intake.

- + clear imprint of the times of day: Morning - Noon - Evening - Night
- + practical transparent sliding cover for easy access and protection
- + includes Braille for barrier-free use
- + high-quality, durable polypropylene



| Art.No. | PU (pcs) |
|----------|---------------|
| 41103010 | 200 |
| Colour | Material |
| white | Polypropylene |

Medicine trays



The tray enables structured and hygienic handling of medication for multiple patients at the same time.

Designed to hold:

19 Medication cups Art.No. 41102001

19 Medication dispensers Art.No. 41103010

Supplied without medication cup and dispenser.

| Art.No. | Material |
|----------|-----------------|
| 41104010 | Polystyrene |
| Colour | Dimensions (mm) |
| white | 340 x 440 x 15 |

Medicine spoons

- + precise division in German (1 teaspoon, 1 tablespoon)
- + dishwasher-safe



| Art.No. | Material |
|----------|---------------|
| 41112010 | Polypropylene |
| Colour | Graduation |
| white | 15 ml |

Feeding cups



The integrated scale makes it possible to dose liquids, which is particularly advantageous when taking medication.



Supplied without lid.

| Art.No. | Capacity (ml) |
|----------|---------------|
| 44010010 | 250 |

Covers

for Art.No. 44010010



Drink opening 4 mm

- + ideal for slow and controlled drinking, ideal for patients with limited swallowing ability

Drink opening 12 mm

- + enables quick and easy fluid intake, ideal for larger sips

| Art.No. | Opening dimensions (mm) |
|----------|-------------------------|
| 44011004 | 4 |
| 44011012 | 12 |

Face shields



- + headband: with adjustable Velcro strap
- + shield: transparent
- + can be worn together with surgical goggles
- + covers the entire face
- + significantly reduces the risk of infection
- + covered with a protective film on both sides to prevent scratching
- + individually adjustable with Velcro fastener
- + disposable
- + very wide viewing angle

| Art.No. | Material shield | PU (pcs) |
|----------|-----------------|----------|
| 49075010 | Polycarbonate | 100 |

Instrument trays without lid

These instrument trays offer an ideal solution for the safe and hygienic storage of surgical instruments.

Boro 3.3



Suitable for high-temperature sterilisation up to +180°C/ +356°F

Matching lids are available under Art.No. 42905.

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 42900003 | 200 x 100 x 50 |
| 42900010 | 200 x 100 x 100 |

Instrument trays made of stainless steel with lid



These stainless steel instrument trays with lids are indispensable aids for medical professionals and guarantee maximum functionality, safety and hygiene in hospital supplies.

Sterilisable: suitable for high-temperature sterilisation up to +180°C/ +356°F

Cover: for additional protection and hygienic covering

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 42915002 | 160 x 100 x 30 |
| 42915003 | 200 x 100 x 50 |
| 42915004 | 220 x 150 x 50 |
| 42915005 | 260 x 150 x 50 |
| 42915006 | 300 x 200 x 50 |

Glass trays with stainless steel lid



These glass trays with matching stainless steel lids are robust, durable and offer a hygienic solution for medical applications.

Boro 3.3

Sterilisable: suitable for high-temperature sterilisation up to +180°C/ +356°F

Cover: for additional protection and hygienic covering

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 42910003 | 200 x 100 x 50 |
| 42910010 | 200 x 100 x 100 |

Stainless steel lids replacement



The matching stainless steel lids with handle have been specially developed for instrument trays of the series Art.No. 42900.

They provide additional protection for the instruments stored and enable hygienic covering.

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 42905003 | 200 x 100 |

Dishes made of melamine



The trays can be stacked inside each other, which enables space-saving storage and efficient use of your workspace.

| Art.No. | Dimensions (mm) | Colour |
|----------|-----------------|--------|
| 49064001 | 350 x 250 x 40 | white |
| 49064002 | 290 x 160 x 35 | |

Kidney dishes



The characteristic curved shape allows it to be brought close to various parts of the patient's body, ensuring efficient and practical handling.

+ made of polypropylene

+ sterilisable for multiple use

| | |
|------------------------|----------------|
| Art.No. | 41120010 |
| Colour | white |
| Dimensions (mm) | 260 x 137 x 40 |
| Operating temp. (max.) | 125°C/257°F |
| Cold resistance | -30°C/-22°F |
| Density (g/cm³) | 0.90 |

Kidney dishes smooth edges



Kidney dishes are shallow, kidney shaped containers used for collecting fluids, holding instruments or managing waste, adapting easily to body contours.

+ autoclavable

| | |
|-----------------|-----------------|
| Art.No. | 41130010 |
| Material | Stainless steel |
| Dimensions (mm) | 250 x 130 x 30 |

Faecal tubes

With integrated spoon and brown screw cap for safe and easy handling



| | |
|-----------------|---------------|
| Art.No. | 44508010 |
| PU (pcs) | Capacity (ml) |
| 1000 | 15 |
| Dimensions (mm) | Material |
| 76 x 20 Ø | Polypropylene |

Protection containers



- + made of polypropylene
- + with screw cap
- + packed in pieces of 100
- + suitable for Art.No. 44508010

| Art.No. | Colour | Dimensions (mm) |
|----------|---------|-----------------|
| 44508020 | natural | 85 x 30 Ø |

Urine bottles



- + for male patients
- + with scale
- + with lid
- + made of polyethylene (PE-LD)
- + autoclavable up to 90°C/194°F

| Art.No. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 44090010 | 1000 | 310 x 85 |

Urine bottles



- + for male patients
- + with scale
- + with lid
- + crystal clear, made of polycarbonate
- + sterilisable

| Art.No. | Capacity (ml) |
|--------------------------|----------------------------|
| 44092010 | 1000 |
| Steam sterilisation max. | Hot air sterilisation max. |
| +125°C/+257 °F | +135°C/275°F |

Urine bottles



- + for female patients
- + with scale
- + with lid
- + natural colour, made of polypropylene
- + heat-resistant up to +90°C/194°F

| Art.No. | Capacity (ml) |
|----------|---------------|
| 44104010 | 1000 |



Urine specimen cups
for single use,
made of polypropylene



- + disposable sample beaker with scale and labeling field
- + practical red snap-on lid with side nipple

| Art.No. | Capacity (ml) | PU (pcs) | Box (pcs) |
|----------|---------------|----------|-----------|
| 44115100 | 125 | 100 | 500 |

Urine specimen cups
for single use,
made of polypropylene



- + disposable sample beaker with scale and labeling field
- + robust green screw cap for secure closure

| Art.No. | Capacity (ml) | PU (pcs) | Box (pcs) |
|----------|---------------|----------|-----------|
| 44115200 | 125 | 100 | 400 |

Brushes for urine bottles



- + with wooden handle
- + twisted wire 2.8 mm galvanised
- + with nylon bristles

| Art.No. |
|-----------------|
| 44106010 |
| Dimensions (mm) |
| 470 x 160 x 70 |

Urine bottle holders
made of wire

- + with chain and cover
- + for attaching to the bed frame
- + triangular shape for optimal stability
- + with white plastic cover



| Art.No. |
|----------------|
| 44108010 |
| Capacity |
| 1 urine bottle |

Urine collecting containers
with handle and lid



- + with ergonomic handle for easy handling
- + raised scale for precise reading
- + can be sterilised for multiple use
- + white polycarbonate lid
- + polypropylene collection jar



Urine collecting containers

- + with reference scale for precise measurements
- + with securely lockable lid
- + ergonomic handle for easy handling

| Art.No. | Capacity (ml) | Operating temp. max. | Handle | Material | Colour | Dimensions (mm) | Features |
|----------|---------------|----------------------|--------|----------|--------|-----------------|----------------|
| 49117010 | 2700 | +75°C/167°F | no | PE | white | 135 x 124 x 248 | with screw cap |
| 49117020 | 2000 | +70°C/158°F | yes | SAN | clear | 130 x 130 x 170 | with lid |

Urine collecting containers square urine bottles



| Art.No. | Scale (ml) | Capacity (ml) | Dimensions (mm) | Material |
|----------|------------|---------------|-----------------|--------------|
| 49118010 | 2000 | 2000 | 92 x 120 x 242 | Polyethylene |

- + ergonomic handle for easy handling
- + embossed scale for precise reading
- + available with or without label
- + not autoclavable
- + made of PE-HD
- + coloured amber
- + with screw cap

Bedpans



- + with practical button lid for secure closure
- + sterilizable, ideal for multiple use
- + high-quality, robust and durable

| Art.No. | Diameter (mm) | Material |
|----------|---------------|-----------------|
| 43155010 | 310 | Stainless steel |

Dilators (Anal dilators)



Our dilators (anal dilators) are specially developed for medical use and meet the highest quality standards. They are made of robust borosilicate glass 3.3, which impresses with its exceptional chemical and thermal resistance.

The CE marking guarantees that the dilators comply with European safety and quality requirements.

Application:

The use of dilators should always be performed or supervised by a healthcare professional to ensure safe and effective use.

Features and benefits:

- + CE-certified for safety and reliability in the medical sector
- + ideal for professional use in clinics and surgeries

| Art.No. | Upper cone Ø (mm) | Cone length (mm) |
|----------|-------------------|------------------|
| 41024001 | 20 | 70 |
| 41024002 | 28 | 80 |
| 41024003 | 32 | 80 |

Specula

Our specula made of high-quality clear glass are specially developed for professional use in gynecology, dermatology and other medical specialties



Application:

The specula are used to create access to body orifices and facilitate diagnostic or therapeutic procedures.

Features and benefits:

- + clear optics for an unrestricted view of the examination area
- + available sizes for optimal adaptation to individual needs

| Art.No. | Ø (mm) | Length (mm) |
|----------|--------|-------------|
| 43017001 | 22-24 | |
| 43017002 | 28-30 | |
| 43017003 | 34-36 | 155 |
| 43017004 | 41-43 | |

Nameplate holders



*incl. 1 Notepad
Art.No. 42325020

Our nameplate holders for hospital beds provide clear and visible labeling for patient information. The nameplate ensures easier identification and organisation of patients for both medical staff and relatives.

| Art.No. | Length (mm) | Diameter (mm) | Material | Variant |
|-----------|-------------|---------------|------------|----------------------------|
| 42325010* | 110 | 35 | Plexiglas® | Nameplate holder |
| 42325020 | - | - | Paper | Tear-off paper à 25 sheets |

Hourglasses in nickel-plated metal housing



Our hourglasses are an indispensable tool for precise pulse measurements in medical and diagnostics.

- + easy to use
- + measuring material: sand
- + measuring time: 15 s & 30 s

| Art.No. | Variant |
|----------|---------------------|
| 42871010 | ¼ min, without Clip |
| 42871020 | ½ min, without Clip |

Tongue depressors wooden



Our CE-certified, disposable tongue depressors made of high-quality birch wood are ideal for examining the mouth and throat. They offer optimum handling and stability. Conveniently packed in folding boxes of 100 pieces.



| Art.No. | Dimensions (mm) | Material | PU (pcs/box) |
|----------|-----------------|-----------|--------------|
| 44365020 | 150 x 18 x 1.6 | Birchwood | 100 |

Cotton dispensers with stainless steel lid



This sterilisable absorbent cotton dispenser consists of a glass cylinder with a stainless steel top. It is perfect for the hygienic storage of absorbent cotton in surgeries and laboratories.

| Art.No. | Dimensions (mm) | Material |
|----------|-----------------|----------|
| 44295010 | 80 x 80 | Glass |

Cotton sticks with one cotton end



- + bag of 100 pieces / 1,000 pieces in carton
- + diameter stick approx. 2.2 mm
- + sticks: birch wood
- + head: cotton



| Art.No. | Length (mm) | Cotton head (mm) |
|----------|-------------|------------------|
| 44302010 | 150 | 12 x 5 Ø |
| 44302030 | 230 | 15 x 5 Ø |

Cotton sticks
with large absorbent cotton head on one side



- + bag of 50 pieces / 500 pieces in carton
- + sticks: birch
- + head: cotton

CE

| Art.No. | Length (mm) | Cotton head (mm) |
|----------|-------------|------------------|
| 44303010 | 200 | 30 x 10 Ø |

Cotton carriers, unsharpened
without cotton



Our round, unsharpened absorbent cotton carriers made of beech wood are available in various lengths and are packaged in packs of 100.

| Art.No. | Length (mm) | Diameter (mm) |
|----------|-------------|---------------|
| 44300015 | 150 | 3.0 |
| 44300020 | 200 | |
| 44300025 | 250 | |
| 44300030 | 300 | |

Cotton carriers, one side sharpened
without cotton



These round absorbent cotton holders made of beech wood are sharpened on one side, available in different lengths and packaged in packs of 100.

| Art.No. | Length (mm) | Diameter (mm) |
|----------|-------------|---------------|
| 44301015 | 150 | 3.0 |
| 44301020 | 200 | |
| 44301035 | 350 | |

Dishes made of glass



Ideal for storing small medical utensils or consumables.

- + made of soda-lime glass
- + low form with fold
- + with loose overlap lid

| Art.No. | Outer Ø approx.(mm) | Height approx.(mm) |
|----------|---------------------|--------------------|
| 41050004 | 40 | 25 |
| 41050005 | 50 | 30 |
| 41050006 | 60 | 35 |
| 41050008 | 80 | 40 |
| 41050010 | 100 | 50 |
| 41050012 | 120 | 60 |

Jars made of stainless steel with knob lid

- + smooth edges



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 44420018 | 85 x 85 |
| 44420024 | 100 x 100 |
| 44420030 | 120 x 120 |
| 44420036 | 150 x 150 |

Thermometer jars
made of
stainless steel



- + without cover
- + with round base

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 44440014 | 100 x 50 Ø |

Glass jars

with base and with loose overlapping glass lid



+ made of soda-lime glass

| Art.No. | Dimensions (mm) | Art.No. | Dimensions (mm) |
|----------|-----------------|----------|-----------------|
| 44410018 | 80 x 80 | 44410042 | 180 x 180 |
| 44410024 | 100 x 100 | 44410054 | 120 x 80 |
| 44410030 | 120 x 120 | 44410066 | 150 x 100 |
| 44410036 | 150 x 150 | 44410072 | 200 x 100 |

Glass jars

with base, without cover

The cylinder is suitable for bandages, absorbent cotton, clinical thermometers, tweezers, forceps and other instruments.

+ made of soda-lime glass



| Art.No. | Dimensions (mm) | Art.No. | Dimensions (mm) |
|----------|-----------------|----------|-----------------|
| 44405012 | 100 x 50 | 44405048 | 210 x 210 |
| 44405018 | 80 x 80 | 44405054 | 120 x 80 |
| 44405024 | 100 x 100 | 44405066 | 150 x 100 |
| 44405030 | 120 x 120 | 44405072 | 200 x 100 |
| 44405036 | 150 x 150 | 44405078 | 300 x 100 |
| 44405042 | 180 x 180 | | |

Glass Covers



+ made of soda-lime glass

+ cover with handle + for cylinder Art.No. 44405012

| Art.No. | Diameter (mm) |
|----------|---------------|
| 44409018 | 80 |
| 44409024 | 100 |
| 44409030 | 120 |
| 44409036 | 150 |
| 44409042 | 180 |

Protective paper (medical crepe) for treatment couches



Made of 100 % cellulose, they offer reliable protection and comfort in medical and therapeutic facilities.

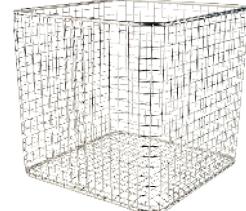
They are double layered, highly absorbent and tear-resistant to meet the highest hygienic standards. The rolls are white and perforated for easy handling and precise separation.

| Art.No. | Dimensions (mm x m) |
|----------|---------------------|
| 44085001 | 390 x 50 |
| 44085002 | 500 x 50 |
| 44085003 | 550 x 50 |
| 44085004 | 590 x 50 |

Wire baskets

made of stainless steel

Ideal for storing medical utensils, instruments or consumables.



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 41075016 | 160 x 160 x 160 |
| 41075020 | 200 x 200 x 200 |

Disposal boxes with cover

The UN verification includes:

- + emission test
- + GS test
- + approval for infectious waste, i.e. in addition to disposal in these containers, transportation is also permitted
- + filling mark
- + cover with built-in locking flaps



Single-use needle disposal container with cover, for the disposal of used ampoules, needles, syringes, acc. to UN regulation

| Art.No. | Material | Capacity (l) |
|----------|---------------|--------------|
| 49070002 | Polypropylene | 1.8 |

Cupping glasses – made in Germany

Our glass cupping jars are crafted with great care and artisanal precision in our own manufactory. Each jar undergoes a meticulous production process in which we place particular emphasis on stability, a pleasant feel, and optimal application properties.

Whether for traditional cupping methods, fascia techniques, or modern wellness applications – our cupping jars are available in various sizes and are perfectly tailored to the needs of therapists, naturopaths, and discerning users.

With our glass cupping jars, we combine traditional knowledge with modern manufacturing quality – for effective treatments that support both body and well-being.

Glass rods for cupping glasses

One end fused, the other conically shaped. The glass rod is used to gently and precisely release cupping glasses from the skin without causing irritation.



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 42894010 | 140 x 7 Ø |

Massage cupping glasses



They are made of high-quality, mouth-blown glass and carry the CE certificate for tested safety.

| Art.No. | Height (mm) | Diameter (mm) |
|----------|-------------|---------------|
| 42887020 | 90 | 30 |

Massage cupping glasses



Equipped with an olive and a ball made of soft PVC, which is cadmium-free and particularly skin-friendly, they offer easy handling and a pleasant application experience. CE-certified for the highest quality and safety.

| Art.No. | Height without bulb (mm) | Diameter (mm) |
|----------|--------------------------|---------------|
| 42889001 | 90 | 30 |

Cupping glasses acc. to Bier with bulb

AR-Glas®



Equipped with an olive and a ball made of soft PVC, which is cadmium-free and particularly skin-friendly, they offer easy handling and a pleasant application experience. CE-certified for the highest quality and safety.

CE

| Art.No. | Height without bulb (mm) | Diameter (mm) |
|----------|--------------------------|---------------|
| 42885003 | 50 | 30 |
| 42885004 | 60 | 40 |
| 42885005 | 70 | 50 |
| 42885006 | 80 | 60 |

Cupping glasses acc. to Bier without bulb

AR-Glas®



Equipped with an olive at the top, they offer flexibility when connecting to hose systems. The CE certificate guarantees tested quality.

CE

| Art.No. | Height (mm) | Diameter (mm) |
|----------|-------------|---------------|
| 42886003 | 50 | 30 |
| 42886004 | 60 | 40 |
| 42886005 | 70 | 50 |
| 42886006 | 80 | 60 |

Cupping glasses

mouth-blown
without bulb



Boro
3.3



Mouth-blown cupping glasses made of high-quality borosilicate glass 3.3. Manufactured without an olive, they are ideal for classic cupping procedures. The CE certificate guarantees tested quality.

| Art.No. | Diameter (mm) | Art.No. | Diameter (mm) |
|----------|---------------|-----------|---------------|
| 42891001 | 25 | 42891401* | 25 |
| 42891002 | 35 | 42891402* | 35 |
| 42891003 | 44 | 42891403* | 44 |
| 42891004 | 50 | 42891404* | 50 |
| 42891005 | 65 | 42891405* | 65 |

*individually packed in a carton

Cupping glasses

mouth-blown
without bulb

Mouth-blown cupping glasses made of high-quality borosilicate glass 3.3. The CE certificate guarantees tested quality.



| Art.No. | Diameter (mm) | Olive Ø (mm) |
|----------|---------------|--------------|
| 42892001 | 25 | 9 |
| 42892002 | 35 | 9 |
| 42892003 | 44 | 10 |
| 42892004 | 50 | 10 |
| 42892005 | 65 | 10 |



Cupping glasses

mouth-blown
with bulb



Boro
3.3



| Art.No. | Ø (mm) | Bulb (mm) | Art.No. | Ø (mm) | Bulb (mm) |
|----------|--------|-----------|-----------|--------|-----------|
| 42893001 | 25 | 56 x 51 | 42893401* | 25 | 56 x 51 |
| 42893002 | 35 | 56 x 51 | 42893402* | 35 | 56 x 51 |
| 42893003 | 44 | 61 x 56 | 42893403* | 44 | 61 x 56 |
| 42893004 | 50 | 61 x 56 | 42893404* | 50 | 61 x 56 |
| 42893005 | 65 | 61 x 56 | 42893405* | 65 | 61 x 56 |

Made of borosilicate glass 3.3, these cupping glasses are equipped with an olive and a ball made of soft PVC, which is cadmium-free and skin-friendly. CE-certified for the highest quality standards.

*individually packed in a carton

Kinesiology Tape Original NASARA®

multiple colours,
5 m x 50 mm



Made from flexible cotton fabric that can be stretched by approx. 155 - 160 % lengthwise. Thanks to the thermoplastic acrylic adhesive on the adhesive side, the tape adapts perfectly to the ambient temperature by expanding and contracting.

The tape is characterized by excellent adhesive properties, high wearing comfort and very good skin compatibility. It is permeable to air and can be easily removed from the skin after therapy.

| Art.No. | Colour |
|----------|--------|
| 42884004 | beige |
| 42884008 | blue |
| 42884012 | yellow |
| 42884016 | green |
| 42884020 | violet |
| 42884024 | orange |
| 42884028 | pink |
| 42884032 | red |
| 42884036 | black |
| 42884040 | white |

Tape-Scissors



- + stainless steel
- + titanium-coated
- + hardened blade

Ideal for cutting kinesiology tape.

| Art.No. | Blade length (mm) | Total length (mm) |
|----------|-------------------|-------------------|
| 42884010 | 85 | 200 |

LIFE SCIENCE.

Blood lancets safety blood lancets Safe Lite III



Advantages:

- + improved aiming due to smaller estuary diameter and raised estuary with a ring
- + easier activation thanks to a longer activation button with a rough surface
- + easier, ergonomic handling due to narrower lancet body
- + less pain for the patient due to shortened free-standing needle, i.e. reduced needle vibration



| Art.No. | Specification | Insertion depth (mm) | Colour |
|----------|---------------|----------------------|--------|
| 40365011 | 18G needle | 1.8 | green |
| 40365012 | 28G needle | 1.8 | violet |
| 40365013 | 26G needle | 1.8 | yellow |
| 40365014 | 26G needle | 2.4 | blue |
| 40365015 | 21G needle | 1.8 | orange |
| 40365016 | 21G needle | 2.4 | pink |

User safety: the needle is fully protected before and after use

User comfort: ready to use, pre-tensioned, releases at the touch of a button

Patient safety: single use, sterilised by gamma radiation, not reusable

Patient comfort: high-quality, ultra-sharp, triple-bevelled needle, very fast penetration

Efficiency: a range of tip configurations and penetration depths to suit most capillary blood collection requirements

Area of application: blood glucose and other diagnostic in-vitro tests

Shelf life: 5 years

Packaging unit: 100 pieces

Blood lancets



The asymmetrical shape of the cutting edge combined with a material thickness of only 0.16 mm leads to a one-sided cut and therefore reduces tearing of the wound edges. As the skin is less damaged, the sensation of pain is reduced and the wound heals more quickly.



- + disposable, individually sealed, sterile packaging, no risk of infection
- + burr-free, optimal, sharp lancet tip
- + right insertion depth, good blood discharge
- + non-slip lancet shaft, easy handling
- + made of stainless steel

| Art.No. | Material | Thickness (mm) | Chromium content | PU (pcs) |
|----------|-----------------|----------------|------------------|----------|
| 40366010 | Stainless steel | 0.16 | 16 - 18 % | 200 |

Mouthpieces made of polystyrene



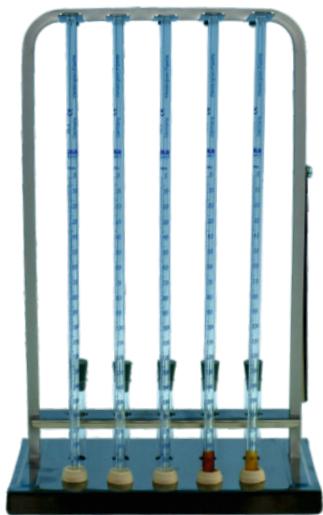
| Art.No. | Colour |
|----------|--------|
| 40360001 | red |
| 40360002 | white |

Mouthpieces with tubing of silicone



| Art.No. | Length (mm) | Material | Colour |
|----------|-------------|-------------|--------|
| 40361001 | 150 | Polystyrene | red |
| 40361002 | 150 | Polystyrene | white |

Blood sedimentation apparatus MACRO



Complete with:

- + blood sedimentation pipettes Art.No. 40380010
- + pipette protective caps
- + blood mixing tubes with rubber stoppers
Art.No. 40379010
- + special rubber caps Art.No. 40377015
- + instruction manual in individual box

Metal stand made of stainless steel
with swivel arm for inclined position for
rapid sedimentation

| Art.No. | Variant | Graduation |
|----------|-------------|------------|
| 40367005 | 5 pipettes | blue |
| 40367010 | 10 pipettes | blue |

Special rubber caps



This rubber cap and filling
method is recognized and
endorsed by the German
Professional association for
health services and
welfare.

For filling by puncturing a
syringe cannula. Cap can be
used 10 to 20 times, closes
automatically after insertion.
Clean by rinsing with cold
water.

| Art.No. | Length (mm) | Ø (mm) |
|----------|-------------------|---------|
| 40377015 | 15 | 5.5 |
| Material | Thickness (mm) | Colour |
| Latex | 0.75 | natural |

Blood sedimentation pipettes MACRO according to Westergren-Katz



- + DIN EN ISO 13079
- + clear glass
- + packed in 10 pieces/box
- + amber graduation is also available as a custom-made product

| Art.No. | Inner Ø (mm) | Outer Ø (mm) | Length (mm) | Division (mm) | Graduation |
|----------|-----------------|-----------------|----------------|------------------|------------|
| 40380010 | 2.42 | 6.3 | 300 | 0 - 200 : 1 | blue |

Brushes for Westergren-pipettes



- + made from twisted wire
- + galvanised
- + natural bristles

| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 40388001 | 410 x 70 x 4 Ø |

Pipettes with rubber teat



Spare rubber cap:
see Art.No. 42620010

The pipette has an elongated tip of approx. 30 mm, which enables precise dosing. The flanged edge ensures easy handling, while the markings at 0.5 ml and 1 ml guarantee precise volume measurement.

| Art.No. | Length (mm) | Wall thickness (mm) | Diameter (mm) |
|----------|-------------|---------------------|---------------|
| 40514030 | 90 | 0.9 | 7 |

Rubber teat made of silicone



suitable for
pipette bottles,
Pasteur pipettes etc.

Reusable only if water is handled.

Otherwise, do not reuse the rubber teat!

Storage: avoid sunlight, store in a cool, dry place

Shelf life: up to 5 years in unopened packages

| Art.No. | Opening approx. (mm) | Capacity approx. (ml) | Hardness | Colour |
|----------|----------------------|-----------------------|------------|------------------------|
| 42620010 | 4 - 5 Ø | 2 | 40 Shore A | white/semi-transparent |

Hematocrit tubes according to Wintrobe



The Wintrobe hematocrit tubes are specially designed to determine the volume of blood cells. They are made of clear glass and feature double rows of numbers in different colours (white/red) for easy and precise reading. The rim and straight inner base ensure stability and ease of use.

Boro
3.3

| Art.No. | Length (mm) | Division (mm) | Graduation |
|----------|-------------|---------------|------------|
| 40535010 | 112 | 105 in 1 | red/white |

Volume capillaries disposable

CE

Boro
3.3

Calibrated to contain = „In“ from end to end

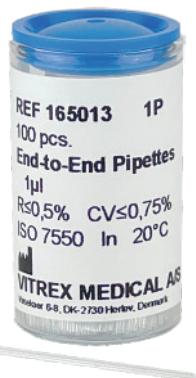
Filling & emptying of the volume capillaries can be done with or without capillary holder.

+ accessories: capillary holder Art.No. 40553001

+ packaged in pieces of 100 per pack / Art.No. 40551024 in pieces of 50

+ ISO 7550

+ shelf life: 4 years



| Art.No. | Capacity (µl) | Precision | Accuracy | Inner Ø (mm) | Outer Ø (mm) | Length (mm) |
|----------|---------------|-----------|----------|--------------|--------------|-------------|
| 40551003 | 1 | ≤ 1.5 % | ≤± 0.5 % | 0.200 | 0.80 ± 0.05 | 29 ± 1.0 |
| 40551006 | 2 | ≤ 1 % | ≤± 0.5 % | 0.293 | 1.15 ± 0.05 | 29 ± 1.0 |
| 40551009 | 3 | ≤ 1 % | ≤± 0.5 % | 0.363 | 1.05 ± 0.05 | 29 ± 1.0 |
| 40551012 | 5 | ≤ 1 % | ≤± 0.5 % | 0.447 | 1.22 ± 0.05 | 29 ± 1.0 |
| 40551015 | 10 | ≤ 1 % | ≤± 0.5 % | 0.666 | 1.25 ± 0.05 | 29 ± 1.0 |
| 40551018 | 20 | ≤ 1 % | ≤± 0.5 % | 0.943 | 1.28 ± 0.05 | 29 ± 1.0 |
| 40551021 | 25 | ≤ 1 % | ≤± 0.5 % | 1.054 | 1.35 ± 0.05 | 29 ± 1.0 |
| 40551024 | 50 | ≤ 1 % | ≤± 0.5 % | 1.416 | 1.88 ± 0.05 | 29 ± 1.0 |
| 40551027 | 100 | ≤ 2 % | ≤± 0.5 % | 1.128 | 1.50 ± 0.05 | 100 ± 1.0 |

Micropipettes disposable



Calibrated to contain = „In“

Accuracy:

Difference between mean value and nominal value in %

Precision:

Standard deviation in relation to the average value in %

Tolerance:

Difference between the upper and lower admissible limit deviation



The tolerance is ensured by statistical quality testing.

Please observe the guidelines of the accident prevention regulations when pipetting. We do not accept any product liability for the use of tubing and mouthpiece.

Our recommendation:

pipetting aid Art.No. 40558010

| Art.No. | Volume (µl) | Precision | Accuracy | PU (pcs) |
|----------|-------------|-----------|-----------|----------|
| 40555003 | 1-2-3-4-5 | ≤ 0.6 % | ≤± 0.30 % | 250 |
| 40555006 | 10 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555009 | 20 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555015 | 25 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555021 | 50 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555024 | 50-100 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555027 | 100 | ≤ 0.5 % | ≤± 0.25 % | 250 |
| 40555030 | 200 | ≤ 0.5 % | ≤± 0.25 % | 125 |



Micro hematocrit capillaries heparinised



- + disposable, manufactured according to international specifications
- + inner diameter uniform over the total length (0.02 conicity)
- + ungraduated heparinised for 40 µl content, can be used in hematocrit centrifuges
- + heparinised on the entire inner surface, with Na- heparin
- + fire-polished ends, one end marked red
- + packaged in tubes of 100 pieces, 10 tubes in a box

| Art.No. | Inner Ø (mm) | Outer Ø (mm) | Length (mm) |
|-------------|--------------|---------------|-------------|
| 40563010 | 1.1 - 1.2 | 1.5 | 75 ± 1 |
| Wall (mm) | Material | Capacity (µl) | |
| 0.2 ± 0.025 | AR-Glas® | 75 | |



Micro hematocrit capillaries not heparinised



- + disposable, manufactured according to international specifications
- + inner diameter uniform over the total length (0.02 conicity)
- + ungraduated heparinised for 40 µl content, can be used in hematocrit centrifuges
- + fire-polished ends, one end marked blue
- + packaged in tubes of 100 pieces, 10 tubes in a box

| Art.No. | Inner Ø (mm) | Outer Ø (mm) | Length (mm) |
|-------------|--------------|---------------|-------------|
| 40564010 | 1.1 - 1.2 | 1.5 | 75 ± 1 |
| Wall (mm) | Material | Capacity (µl) | |
| 0.2 ± 0.025 | AR-Glas® | 75 | |



Micro hematocrit capillaries heparinised



- + fire-polished at the end of the color ring, one end marked red
- + filling of the tubes by capillary effect up to the mark
- + with Na-heparin
- + packaged in tubes of 100 pieces, 10 tubes in a box

For centrifugation, sealed with haematocrit sealing wax Art.No. 40566010

| Art.No. | Inner Ø (mm) | Outer Ø (mm) |
|-------------|---------------|--------------|
| 40565010 | 0.55 ± 0.05 | 1.5 ± 0.05 |
| Length (mm) | Capacity (µl) | Mark at (mm) |
| 75 ± 0.5 | 18 | 60 |

Capillary holders

The capillary holder is a practical accessory for working with capillaries.



It consists of a short tube with a rubber teat, rubber stopper and a ventilation hole which allows precise handling and control.

| Art.No. | Length of glass tube (mm) | Autoclavable |
|----------|---------------------------|--------------|
| 40553001 | 35 | no |

Blood capillaries



- + for determining the clotting time and blood grouping
- + cut off smoothly
- + diameter: approx. 1.35 mm

| Art.No. | Length (mm) | Wall thickness (mm) | PU (pcs) |
|----------|-------------|---------------------|----------|
| 40560010 | 90 | 0.22 | 100 |

Hematocrit sealing material



For sealing micro hematocrit capillaries. The plastic plate has 2 x 24 numbered positions per pair.

This wax prevents the blood sample from leaking and does not dry out. Which makes it easy to seal and transport samples.

One plate is enough for sealing several hundred capillaries.

| Art.No. | Dimensions (mm) | Shelf life | PU (pcs) |
|----------|-----------------|------------|----------|
| 40566010 | 115 x 42 x 6 | 4 years | 10 |

Pasteur pipettes made of glass

- + ISO 7712
- + uniform, precise execution
- + for single use
- + with constriction in the upper part for cotton plugs
- + soda-lime glass
- + packed in pieces of 250/box



| Art.No. | Length (mm) | Variant | Capacity (ml) | Body (mm) | Inner Ø capillary tip (mm) |
|----------|-------------|------------------------------|---------------|-----------|----------------------------|
| 40567001 | 150 | short form | 1.5 | 90 x 7 Ø | 1 |
| 40567002 | 230 | long form | 1.9 | 90 x 7 Ø | 1 |
| 40567091 | 150 | short form, with cotton plug | 1.5 | 90 x 7 Ø | 1 |
| 40567092 | 230 | long form, with cotton plug | 1.9 | 90 x 7 Ø | 1 |

Pasteur pipettes made of polyethylene

- + made of soft, transparent PE, quality B, non-sterile
- + packed in pieces of 500/box



| Art.No. | Length (mm) | Graduation | Capacity (ml) | Body Ø (mm) | Stem Ø (mm) | Drops per ml |
|----------|-------------|------------|---------------|-------------|-------------|--------------|
| 40569001 | 150 | none | 0.5 | 13 | 2.3 | 19 - 21 |
| 40569002 | 150 | up to 1 ml | 1.0 | 13 | 4.7 | 23 - 25 |
| 40569003 | 150 | up to 3 ml | 3.0 | 13 | 2.3 | 27 - 29 |

Blood smear slides according to Undritz



They are characterized by polished surfaces on both sides, which enable a clear and unadulterated presentation of microscopic specimens. The beveled edges and 45° ground corners ensure safety and comfortable handling.

These glasses are manufactured without a frosted edge.

| Art.No. | Dimensions (mm) | Thickness (mm) | Density (g/cm ³) | Material |
|----------|-----------------|----------------|------------------------------|-------------------------------|
| 40619010 | 40 x 20 | 1.8 - 2.2 | 2.5 | Float glass (soda-lime glass) |

Nissl tubes (centrifuge tubes) with elongated tip



The Nissl tubes, also known as centrifuge tubes with an elongated tip, are specially developed for volumetric fibrin determination. They offer precise measurement and excellent stability during analysis.

Boro 3.3

| Art.No. | Dimensions (mm) | Capacity (ml) | Graduation |
|----------|-----------------|---------------|------------|
| 41145010 | 105 x 11 | 3 | blue |

Reaction tubes (micro tubes) made of high quality polypropylene



- + with leak free cap
- + disposable
- + non-sterile

| Art.No. | Capacity (ml) | PU (pcs) |
|----------|---------------|----------|
| 49040010 | 1.5 | 1,000 |

Stirring spatulas made of plastic, with crossbar



- + clear
- + improves mixing of samples, especially in rectangular cuvettes
- + packaged in pieces of 100

| Art.No. | Length (mm) | Diameter (mm) | Crossbar (mm) | Material |
|----------|-------------|---------------|---------------|-------------|
| 40734010 | 120 | 3 | 9 | Polystyrene |

Pipetting aid „micro-classic”

- + with tube and adapter for pipette holder

Ideal for pipetting with disposable micropipettes and other pipettes up to approx. 1 ml.

Particularly suitable for microscopy, as the right-angled pipette position is advantageous here. Easy to use.

The pipetting aid must not be used with end-to-end capillaries!



| Art.No. | Autoclavable at |
|----------|------------------------|
| 40558010 | +121°C/249.8°F (2 bar) |

Disposable cuvettes – macro

Optically excellent transparency. Deepened windows as a protection against scratches. Arrow marking of the transmission direction.
+ packed in pieces of 100



| | |
|------------------------------|--------------------------|
| Art.No. | 40705010 |
| Material | Polystyrene |
| Light path (mm) | 10 |
| Application range (nm) | from 340 nm on |
| Windows (mm) | 10 x 35 |
| Dimensions (mm) | 12.5 x 12.5 x 45 |
| Capacity (ml) | min. 2.5/max. 4.5 |
| Standard deviation at 360 nm | ± 0.005 extinction units |

Disposable cuvettes – semi-micro

Optically excellent transparency. Deepened windows as a protection against scratches. Arrow marking of the transmission direction.
+ packed in pieces of 100



| | |
|------------------------------|--------------------------|
| Art.No. | 40706010 |
| Material | Polystyrene |
| Light path (mm) | 10 |
| Application range (nm) | from 340 nm on |
| Windows (mm) | 5 x 23 |
| Dimensions (mm) | 12,5 x 12,5 x 45 |
| Capacity (ml) | min. 1.5/max. 3.0 |
| Standard deviation at 360 nm | ± 0.005 extinction units |

Blood cell counters

Counter

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

The electronic storage devices make the counting of the blood count more precise.

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

Interfaces:

+ data transfer – USB mini

Power supply:

+ mains operation - USB mains adapter 5VDC / 300mA

+ battery operation - external USB power bank

Function buttons:

+ labelling - On/Off, -/Eva 1, +, Go On, Corr.

+ clear counting buttons

Labelling:

+ Art.No. 40345010 – Eos, Baso, Promy, Myelo, Div, Juve, Stab, Seg, Lym, Mono

+ Art.No. 40345015 – At Ly, My Bl, Met My, Myelo, Normo, Lym, Seg, Mono, Plas, Tox Gr, Stab, Eos, Baso, Div/Reti, Div/Ery

Programmes:

+ counting steps – 10-1000 in steps of 10

+ programmes – LEUKO, MYELO/RBC, RETI, FREE

Advantages:

- + mains operation/battery operation
- + software (download) with PC evaluation
- + large TFT colour display
- + storage of the last count in the device



CE

| | | |
|-----------------|-------------------------|-------------------------|
| Art.No. | 40345010 | 40345015 |
| Counting keys | 10 | 15 |
| Function keys | 5 | 5 |
| Counting range | max. 1000 | max. 1000 |
| Display | TFT colour display 3.5" | TFT colour display 3.5" |
| Dimensions (mm) | 130 x 235 x 35 | 130 x 235 x 35 |
| Colour | blue | blue |

Tubes for urinalysis

U-shape, with handle and round bottom

Made of clear glass which provides an optimal view of the samples.

U-shaped design with sturdy round base and practical handle for safe handling.

The beaded edges at the top opening facilitate handling and reduce the risk of damage or glass breakage.



The tube is a high-quality tool for urine tests.

| Art.No. | Height (mm) | Material |
|----------|-------------|----------|
| 41375010 | 135 | AR-Glas® |

Fermentation saccharometer according to Dr. Einhorn with measuring tube

Saccharometer:

- + with engraved graduations in ml and % for gas and sugar
- + graduation from 1 - 5 ml and 1/4 - 1 %
- + tube with sphere, curved, on glass base
- + capacity to below sphere: approx. 9 ml



Measuring tube:

- + with ring mark at 10 ml
- + cylinder glasses with round bottom and beaded rim
- + with spout
- + 140 mm length

| Art.No. | Total capacity (ml) | Outer tube Ø (mm) | Graduation | Variant |
|----------|---------------------|-------------------|------------|----------------------|
| 41370010 | 14 | 15 | white | Saccharometer |
| 41370020 | 250 | 14.5 | amber | Spare measuring tube |

Glass cylinder for Urinometers

A glass cylinder that is perfectly matched to the urinometers according to Dr. Vogel.

- + low form
- + ungraduated



| Art.No. | Inner Ø (mm) | Dimensions (mm) | Wall (mm) |
|----------|--------------|-----------------|-----------|
| 40247010 | 21 | 125 x 24 Ø | 1.5 |

Glass cylinder for Urinometers

Stable construction: The cylinder is equipped with a solid base which ensures that it cannot tip over.

Practical spout: Allows samples to be poured out easily and without spilling.



Boro 3.3

- + low form
- + ungraduated
- + DIN EN ISO 4788

| Art.No. | Dimensions (mm) | Base Ø (mm) | Capacity (ml) | Weight (g) |
|----------|-----------------|-------------|---------------|------------|
| 44401030 | 170 x 39 Ø | 70 | 100 | 100 |

Urinometers according to Dr. Vogel

A urinometer consists of a float, the weight and the stem.

It is immersed in a specially designed glass cylinder.

The paper scale integrated in the stem precisely indicates the specific gravity of the urine. This model is ideal for general analyses and routine laboratory tests.

Equipped with an air-filled glass tube as a float, which guarantees stability and accurate readability.

The weight consists of a glass cylinder loaded with iron shot to ensure reliable balance and measurement.



| Art.No. | Measuring range g/cm ³ | Reference temperature | Length (mm) | Division g/cm ³ |
|----------|--------------------------------------|--------------------------|----------------|-------------------------------|
| 40240010 | 1.000 - 1.060 | +20°C/68°F | 150 | 0.001 |

Urinometers according to Dr. Vogel

The urinometer is specially designed for the analysis of very small amounts of urine.

The compact probe also uses an iron shot load, which guarantees a high degree of accuracy.



| Art.No. | Measuring range g/cm ³ | Reference temperature | Length (mm) | Division g/cm ³ |
|----------|--------------------------------------|--------------------------|----------------|-------------------------------|
| 40245010 | 1.000 - 1.060 | +20°C/68°F | 90 | 0.002 |

Urinometers according to Dr. Vogel

Boro
3.3

This set combines the reliable urinometer according to Dr. Vogel with a matching glass cylinder for immediate use. The urinometer has an iron shot-loaded float and an easy-to-read scale in the glass stem.

Thanks to its stand and practical spout, the glass cylinder supplied is the ideal complement for smooth measurements.



| Art.No. | Length (mm) | Measuring range g/cm ³ | Reference temperature |
|----------|-------------|--------------------------------------|--------------------------|
| 40242010 | 150 | 1.000 - 1.060 | +20°C/68°F |
| 40248010 | 90 | 1.000 - 1.060 | +20°C/68°F |

Thermostatic water bath

fully electronic, digital, complete with Plexiglas® tank Art.No. 43194001



All immersing, bare metal parts are made of stainless steel. Fully electronic, wear-free temperature control with digital display. Cooling coil and connection piece for consumers available as accessories.



Technical data

Temperature display / resolution: LED / 0,1 K

Temperature setting / resolution: digital / 0,1 K

Temperature consistency : ± 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: -30°C/-22°F up to +100°C/+212°F

Pump capacity: max. 5 l/min

Safety class: 3 (DIN 12876)

| | |
|---------------------|-----------------|
| Art.No. | 43180010 |
| Heating (W) | 1000 |
| Voltage (V) | 230 |
| Weight (kg) | 3 |
| Dimensions (mm) | 120 x 130 x 330 |
| Pressure max. (bar) | 0.12 |

Tanks made of Plexiglas®
for Art.No. 43180010
without inclined bottom



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 43194001 | 349 x 140 x 162 |

Tanks made of Plexiglas®
with inclined bottom

+ for better circulation



| Art.No. |
|-----------------|
| 43187003 |
| Dimensions (mm) |
| 430 x 130 x 150 |

Flow monitors
made of plastic (SAN)
transparent



+ to control
the water flow

| Art.No. | for tubing inner Ø (mm) |
|----------|----------------------------|
| 43178010 | 6 - 11 |

Water bath racks made of Plexiglas®

+ for hanging into the tank

| Art.No. | Holes | Diameter (mm) | for |
|----------|-------|------------------|------------------------------|
| 43188003 | 20 | 18 | 20 centrifuge- or test tubes |
| 43188004 | 24 | 11 | 24 reaction tubes |



ThermoClean DC stabilising solutions for water baths

Application:

Pour 1 ml of the solution for 1 l of distilled water into a clean tank



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 with no odour formation
- + no obstructions in tubings and temperature control system
- + frequent cleaning of the tank becomes unnecessary
- + solution is free of aggressive phosphates and oxidising or reducing substances
- + only minor pH value change of the water
- + solvent-free
- + prevents foam formation, even with strong circulation

| Art.No. | Concentrate | Capacity (ml) |
|----------|----------------|---------------|
| 43170001 | methylene blue | 100 |
| 43170003 | clear | 100 |

Histokitt

- + does not fluoresce
- + does not yellow even after prolonged exposure to UV light
- + does not crack or change shape even after prolonged storage and temperature changes
- + even sensitive colourations are preserved thanks to the acid number = 0
- + refractive index of 1.5 (nD 20 °C) is adapted to the microscope slide and cover glass
- + water-repellent
- + can be stored practically indefinitely in the original sealed bottle



Inclusion agent for the histological-microscopic technique.

Lightfast, neutral, colourless, no effect on staining, soluble e.g. in benzene, chloroform, dioxane, xylene

| Art.No. | Curing time (min) | Capacity (ml) | Cold resistance |
|----------|-------------------|---------------|---------------------|
| 41025010 | 20 | 500 | up to -17 °C/1.4 °F |

Flasks for cedar oil

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



| Art.No. | Capacity (ml) | Total height (mm) | Flask height (mm) | Diameter (mm) |
|----------|---------------|-------------------|-------------------|---------------|
| 40920010 | 40 | 100 | 60 | 54 |

All-purpose writing tape Shurtape® self-adhesive

+ Typical applications:

- for general purpose labeling, colour-coding, decorating and identification
- can also be used for packaging, bundling, binding and holding applications

+ Product features:

- good adhesion
- releases easily from a variety of surfaces
- available in a variety of colours
- meets LHAMA requirements for use in arts and crafts
- adhesive: Synthetic rubber-based
- made for labeling

+ Physical properties:

- tensile Strength: 35,0 N/10 mm
- adhesion to Stainless Steel: 3,72 N/10 mm
- thickness: 0,12 mm
- elongation: 9 %
- service Temperature Range: 16°C up to 66°C / 60.8°F up to 150.8°F

+ Storage and usage conditions:

- store cool and dry
- use within 12 months of date of shipment
- surfaces clean, dry and free of grease and oil before use



| Art.No. | Width (mm) | Length (m) | Thickness (mm) | Colour |
|----------|------------|------------|----------------|--------|
| 41180003 | 24 | 55 | 0.12 | green |
| 41180006 | 24 | 55 | 0.12 | yellow |
| 41180009 | 24 | 55 | 0.12 | white |
| 41180012 | 24 | 55 | 0.12 | blue |
| 41180015 | 24 | 55 | 0.12 | red |

Desktop tape dispensers

- + for adhesive tape max. 25.4 mm wide**
- + for all-purpose writing tape**



| Art.No. | Colour |
|----------|--------|
| 41180110 | black |

Glass-writing diamond pens

- + for permanent marking of glass**



| Art.No. | Length (mm) | Material handle |
|----------|-------------|-----------------|
| 41182010 | 150 | Wood |

Signing pens

- + with clip**
- + fine line, width: 1 mm**
- + odor: mild**

For labelling and marking laboratory glassware as well as plastics, foils and rubberised material. Waterproof alcohol-based ink, smudge-proof and quick-drying.



| Art.No. | Colour |
|----------|--------|
| 41181004 | red |
| 41181008 | black |
| 41181010 | blue |

Staining bridges made of PVC extendable, with dyeing tub

- + suitable for bowls and basins from 380 to 620 mm
- + with angled position and horizontal fixation
- + consists of staining bridge of PVC Art.No. 41186010 with two plexi retaining clips and staining tray of PVC Art.No. 41187010

| Art.No. | Dimensions (mm) | Tensile strength | Elongation at break | E-Modulus | Temperature resistance | Heat resistance |
|----------|-----------------|----------------------|---------------------|------------------------|-------------------------------|-----------------|
| 41185010 | 380 x 170 x 80 | 30 N/mm ² | 33 % | 3000 N/mm ² | -15 to +60°C/ +5 to +140°F | +72°C/161.6°F |



Staining bridges made of PVC extendable, without tray

- + suitable for bowls and basins from 38 to 62 cm
- + with inclined position and horizontal fixation
- + 2 retaining clips



| Art.No. | Material |
|----------|----------|
| 41186010 | PVC |

Staining trays made of PVC

This staining tray is also suitable as a storage tray for pipettes etc.



| Art.No. | Dimensions (mm) | Colour |
|----------|-----------------|-----------|
| 41187010 | 380 x 170 x 80 | dark grey |

Staining trays with tilting rack



- + slanted
- + swivelling

Note: Do not leave any staining liquids in the staining tray for a long period of time. This could cause to corrosion.

| Art.No. | Dimensions (mm) | Autoclavable | Material | Heat resistance |
|----------|-----------------|--------------|-----------------|-----------------|
| 41192010 | 232 x 140 x 38 | Unlimited | Stainless steel | 190°C/374°F |

Staining stands made of Plexiglas®



- + rack made of Plexiglas®
- + with 3 Hellendahl boxes made of glass

Art.No. 42460010

| Art.No. | Dimensions (mm) | Opening (mm) |
|----------|-----------------|--------------|
| 41218010 | 210 x 115 x 45 | 60 x 45 |

Staining jars made of glass



- + rectangular
- + with cover

| Art.No. | Dimensions (mm) |
|-----------------|-----------------|
| 41230010 | 85 x 40 x 20 |
| Material | |
| Soda-lime glass | |

Staining jars made of glass



- + round
- + with cover

| Art.No. | Jar dimensions (mm) | Density (g/cm ³) |
|-----------------------|---------------------|------------------------------|
| 41231010 | 85 x 40 Ø | 2.49 |
| Cover dimensions (mm) | | Material |
| 15 x 45 Ø; Wall 1.5 | | Soda-lime glass |

Staining jars according to Coplin made of glass, with cover

Holds 10 microscope slides 76 x 26 mm vertically



Cleaning instruction:

Tests with household dishwashers have shown that repeated cleaning at 55 - 60°C/131 - 140°F is not a problem for the glasses.

For dishwashers in laboratories or clinics that work at higher temperatures, it would be necessary to ensure slow heating and cooling with a temperature gradient of max. 40°C/104°F. In addition, the glasses should be firmly secured so they do not knock against each other.

| Art.No. | Dimensions (mm) | Capacity (ml) | Material | Dimensional stability when heated slowly |
|----------|-----------------|---------------|-----------------|--|
| 42470010 | 113 x 62/74 Ø | 75 | Soda-lime glass | up to 180°C/356°F |

Glass boxes (staining dishes) with glass cover



*Consisting of:

Temperature resistance up to 100°C/212°F

Glass box with cover and loose staining rack made of stainless steel,
for simultaneous staining of 10 microscope slides

| Art.No. | Dimensions (mm) | Material | Variant |
|-----------|-----------------|-----------------------------------|--|
| 41205001 | 9 x 7 x 6.5 | Soda-lime glass | glass box with cover |
| 41205002 | 9 x 7 x 6.5 | | glass box without cover |
| 41205003 | 9 x 7 x 1 | | glass cover |
| 41205004 | 8 x 6 x 5 | Stainless steel | staining insert |
| 41205010* | 9 x 7 x 6.5 | Soda-lime glass & stainless steel | glass box with staining insert, complete |

Staining dishes made of glass, with glass cover according to Schiefferdecker



Cleaning instructions:

Tests with household dishwashers have shown that repeated cleaning at 55 - 60°C/131 - 140 °F is not a problem for the glasses. For dishwashers in laboratories or clinics that work at higher temperatures, it would be necessary to ensure slow heating and cooling with a temperature gradient of max. 40°C/104°F. In addition, the glasses should be firmly secured so they do not knock against each other.

for 10 microscope slides 76 x 26 mm vertically
or for 20 slides back-to-back

| Art.No. | Dimensions (mm) | Material |
|----------|-----------------|-----------------|
| 42450010 | 85 x 70 x 50 | Soda-lime glass |

Slide boxes made of heavy walled soda glass, with Hellendahl glass lids



for 8 slides
76 x 26 mm or
for 16 pieces
standing back to back

Cleaning instruction:

Tests with household dishwashers have shown that repeated cleaning at 55 - 60°C/131 - 140°F is not a problem for the glasses.

For dishwashers in laboratories or clinics that work at higher temperatures, it would be necessary to ensure slow heating and cooling with a temperature gradient of max. 40°C/104°F. In addition, the glasses should be firmly secured so they do not knock against each other.

| Art.No. | Dimensions (mm) | Capacity (ml) | for slides | Material | Dimensional stability when heated slowly |
|----------|-----------------|---------------|------------|-----------------|--|
| 42460010 | 61 x 58 x 99 | 110 | 8 | Soda-lime glass | up to 180°C/356°F |

Staining dishes made of glass, with Hellendahl glass lids, without extension



for 8 slides
76 x 26 mm or
for 16 pieces
standing back to back

Cleaning instruction:

Tests with household dishwashers have shown that repeated cleaning at 55 - 60°C/131 - 140°F is not a problem for the glasses.

For dishwashers in laboratories or clinics that work at higher temperatures, it would be necessary to ensure slow heating and cooling with a temperature gradient of max. 40°C/104°F. In addition, the glasses should be firmly secured so they do not knock against each other.

| Art.No. | Dimensions (mm) | Capacity (ml) | for slides | Material | Dimensional stability when heated slowly |
|----------|-----------------|---------------|------------|-----------------|--|
| 42461010 | 92 x 43 x 95 | 160 | 8 | Soda-lime glass | up to 180°C/356°F |

Staining tray made of glass without lid



For 10 slides 76 x 26 mm or any width
up to approx. 50 mm
Holds 10 slides horizontally or 20 slides back to back

Cleaning instruction:

Tests with household dishwashers have shown that repeated cleaning at 55 - 60°C/131 - 140°F is not a problem for the glasses.

For dishwashers in laboratories or clinics that work at higher temperatures, it would be necessary to ensure slow heating and cooling with a temperature gradient of max. 40°C/104°F. In addition, the glasses should be firmly secured so they do not knock against each other.

| Art.No. | Dimensions (mm) | Material | Dimensional stability when heated slowly |
|----------|-----------------|-----------------|--|
| 42481010 | 91 x 74 x 49 | Soda-lime glass | up to 180°C/356°F |

Wire hanger for Art.No. 42481010

+ for inserting the dyeing frame



| Art.No. | Material |
|----------|----------|
| 42482010 | Wire |

Staining dishes made of heavy wall soda glass,
with glass cover, without rack insert



Holds 10 slides.

| Art.No. | Dimensions (mm) | Capacity (ml) | for Art.No. | Material | Dimensional stability when heated slowly |
|----------|-----------------|---------------|-------------|-----------------|--|
| 42480010 | 105 x 85 x 80 | 300 | 42481010 | Soda-lime glass | up to 180°C/356°F |

Staining blocks clear glass
with lid

Hydrolytic class 3

Acid resistance class 1

Alkali resistance class 2



With semicircular cavity and lid disc

40 x 40 x 3 mm made of clear glass.

| Art.No. | Dimensions (mm) | Material |
|------------------------|-----------------|-------------------------------|
| 42020010 | 40 x 40 x 16 | Soda-lime glass |
| Recess Dimensions (mm) | | Temperature change resistance |
| 10 x 300 Ø | | 30 K |

Bottles for Canada balsam



- + made of glass
- + with ground cap made of glass
- + with rod made of glass

| Art.No. | Capacity (g) | Rod length (mm) | Rod Ø (mm) |
|----------|--------------|-----------------|------------|
| 41710030 | 30 | 92 | 4 |
| 41710060 | 60 | 120 | 4 |

Bottles for Canada balsam



- + made of glass
- + with loose cap made of glass
- + with rod made of glass

| Art.No. | Capacity (g) | Rod length (mm) | Rod Ø (mm) |
|----------|--------------|-----------------|------------|
| 41720030 | 30 | 92 | 4 |
| 41720060 | 60 | 120 | 4 |

Drigalski spatula



- + for uniform distribution of bacterial material on a solid culture

| Art.No. | Total length (mm) | Side length (mm) | Spatula width (mm) | Rod Ø (mm) |
|----------|-------------------|------------------|--------------------|------------|
| 41049010 | 140 | 35 | 40 | 5 |

Dissecting needles straight made of chrome-nickel steel, stainless, with wooden handle



| Art.No. | Total length (mm) | Handle length (mm) | Needle length (mm) |
|----------|-------------------|--------------------|--------------------|
| 42712010 | 150 | 100 | 50 |

Glass spot plates according to Börner



The Börner glass spot plate is an aid for flocculation tests and similar laboratory applications. It has 10 numbered cavities that allow tests to be carried out in a clear and structured manner. The overflow grooves prevent liquids from overflowing and ensure clean working conditions.

Two ledges at the bottom ensure stability during use.

| Art.No. | Dimensions (mm) | Thickness (mm) | Cavities Ø (mm) | Cavities depth (mm) |
|----------|-----------------|----------------|-----------------|---------------------|
| 40623010 | 107 x 57 | 4 | 14 | 2 |

Glass spot plates



The glass spot plate is an aid for flocculation tests and similar laboratory applications. It has 12 numbered cavities that allow tests to be carried out in a clear and structured manner. The overflow grooves prevent liquids from overflowing and ensure clean working conditions.

Two ledges at the bottom ensure stability during use.

| Art.No. | Dimensions (mm) | Thickness (mm) | Cavities Ø (mm) | Cavities depth (mm) |
|----------|-----------------|----------------|-----------------|---------------------|
| 40624010 | 89 x 57 | 4.5 | 15 | 1.5 |

Porcelain spot plates with 6 or 12 cavities



The glazed surface ensures easy cleaning and prevents the penetration of liquids, making it easier to work hygienically.

| Art.No. | Dimensions (mm) | Cavities Ø (mm) | Cavities depth (mm) | Variant |
|----------|-----------------|-----------------|---------------------|-------------|
| 40625008 | 112 x 81 x 25 | 25 | 2 | 6 cavities |
| 40625010 | 115 x 91 x 12 | 17 | 2 | 12 cavities |

Drying racks made of Plexiglas® for 12 microscope slides

For the drying of coloured slides. The slides are placed diagonally on interchangeable flow paper. The mounting surface is numbered.

Two packs of blotting paper can be stored in the base of the drying rack.

Two packs of blotting paper included.



| Art.No. | 41238010 |
|-----------------------|------------------|
| Drying rack | |
| Heat resistance | up to 70°C/158°F |
| Density (g/m³) | 1.19 |
| Material | Plexiglas® |
| Colour | white |
| Blotting paper | |
| Dimensions (mm) | 200 x 45 |
| Material | 100 % cotton |
| Colour | white |
| Surface | smooth |
| Surface weight (g/m²) | 150 |
| Thickness (mm) | 0.32 |

Spare blotting paper sheets (chromatography paper) pack of 25 sheets



| Art.No. | 41238020 |
|-----------------------|--------------|
| Dimensions (mm) | 200 x 45 |
| Material | 100 % cotton |
| Colour | white |
| Surface | smooth |
| Surface weight (g/m²) | 150 |
| Thickness (mm) | 0.32 |

Racks made of Plexiglas® for 12 microscope slides



with numbering from 1 to 12 and field for inscriptions

Resistance to acids and alkalis:

- + good resistance to diluted acids and alkalis
- + limited resistance to organic solvents

| | |
|----------------------------------|---------------|
| Art.No. | 41240010 |
| Plate thickness (mm) | 3 |
| Bulk density (g/m ³) | 1.19 |
| Material | Plexiglas® XT |
| Slot depth (mm) | 7 |
| Dimensions (mm) | 90 x 130 x 34 |

Petri dishes

- + with lid
- + clear glass
- + heat resistant up to +60°C/140°F



| Art.No. | Cover Ø (mm) | Height of base (mm) | Material |
|----------|--------------|---------------------|-----------------|
| 41042006 | 40 | 12 | Soda-lime glass |
| 41042012 | 60 | 15 | |
| 41042016 | 70 | 15 | |
| 41042018 | 80 | 15 | |
| 41042020 | 90 | 15 | |
| 41042022 | 90 | 15 | |
| 41042024 | 100 | 20 | |
| 41042030 | 120 | 20 | |
| 41042036 | 150 | 25 | |
| 41042038 | 180 | 30 | |
| 41042040 | 200 | 30 | |
| 41042042 | 200 | 50 | |

Petri dishes with vents

- + disposable
- + with air vents
- + with cover



| Art.No. | Diameter (mm) |
|-------------|---------------|
| 41043010 | 90 |
| Material | PU (pcs) |
| Polystyrene | 480 |

Petri dishes divided

- + clear glass
- + with cover
- + with white grid mesh



| Art.No. | Grid size (mm) | Dimensions (mm) |
|----------|----------------|-----------------|
| 41044010 | 10 x 10 | 20 x 100 Ø |

Petri dishes

- + divided
- + with cover



Boro 3.3

sterilisable up to +121°C/+249.8°F

| Art.No. | Cover Ø (mm) | Base height (mm) | Base |
|----------|--------------|------------------|--------------------------------------|
| 41045002 | 100 | 20 | divided into two (half division) |
| 41045003 | 100 | 20 | divided into three parts (thirds) |
| 41045004 | 100 | 20 | divided into four (quarter division) |

Petri dishes

BASIC Boro 3.3

- + with cover
- + white graduation
- + autoclavable



| Art.No. | Dimensions approx. (mm) | PU (pcs) |
|----------|-------------------------|----------|
| 51046062 | 60 x 20 Ø | 10 |
| 51046082 | 80 x 20 Ø | 10 |
| 51046101 | 100 x 15 Ø | 10 |
| 51046102 | 100 x 20 Ø | 10 |
| 51046122 | 120 x 20 Ø | 5 |
| 51046152 | 150 x 25 Ø | 2 |

Eyelets

- + rust-proof
- + loose
- + made of nickel-chrome

| Art.No. | Eyelet-Ø (mm) | Length (mm) | Wire diameter (mm) |
|----------|---------------|-------------|--------------------|
| 40035010 | 3-4 | 50 | 0.5 |

Eyelets with glass handle

- + rust-proof
- + loose
- + made of nickel-chrome

| Art.No. | Eyelet-Ø (mm) | Length (mm) | Wire diameter (mm) |
|----------|---------------|-------------|--------------------|
| 40036010 | 3-4 | 200 | 0.5 |

Needles

- + made of nickel-chrome
- + rust-proof
- + acid-resistant



| Art.No. | Length (mm) | Wire diameter (mm) |
|----------|-------------|--------------------|
| 40037010 | 40 | 0.6 |

Needles with glass handle

- + made of nickel-chrome
- + rust-proof
- + acid-resistant



| Art.No. | Length (mm) | Wire diameter (mm) |
|----------|-------------|--------------------|
| 40038010 | 200 | 0.6 |

Needle holder according to Kolle

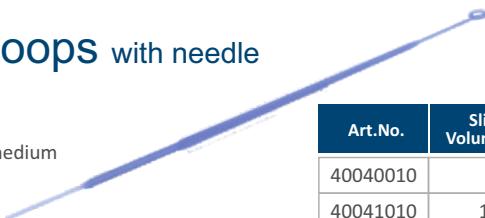
- + made of aluminium with plastic handle
- + sterilizable up to 140 °C/ 284 °F (handle only up to max. 80 °C/ 176 °F)



| Art.No. | Diameter (mm) | Length (mm) |
|----------|---------------|-------------|
| 40039016 | 8.5 | 160 |
| 40039025 | 8.5 | 250 |

Vaccination loops with needle

- + for single use
- + for inoculation of culture medium



| Art.No. | Sling-Volume (µl) | Length (mm) | Colour | Material | PU (pcs) |
|----------|-------------------|-------------|--------|------------|----------|
| 40040010 | 1 | 195 | white | Polystrene | 1000 |
| 40041010 | 10 | 200 | blue | Polystrene | |

Microscope slides „Elka“

cut edges,
ready to use,
pre-cleaned



Density: 2500 kg/m³ Youngscher Modulus: 70 Gpa Poisson number: 0.23 Hardness (Mohs): 6

+ shelf life: up to 12 months

+ packed in pieces of 50/ 2,500 pieces per box

ISO 8037/1

| | |
|-----------------|-----------------|
| Art.No. | 42400010 |
| Dimensions (mm) | 76 x 26 x 1 |
| Material | Soda-lime glass |

Microscope slides „Elka“

ground edges at 90°,
selected glass quality,
non-corrosive,
ready to use,
pre-cleaned



Density: 2500 kg/m³ Youngscher Modulus: 70 Gpa Poisson number: 0.23 Hardness (Mohs): 6

+ shelf life: up to 12 months

+ packed in pieces of 50/ 2,500 pieces per box

ISO 8037/1

| | |
|-----------------|-----------------|
| Art.No. | 42401010 |
| Dimensions (mm) | 76 x 26 x 1 |
| Material | Soda-lime glass |

Microscope slides with matt stripes

cut edges,
selected glass quality,
non-corrosive,
ready to use,
pre-cleaned



Density: 2500 kg/m³ Youngscher Modulus: 70 Gpa Poisson number: 0.23 Hardness (Mohs): 6

+ packed in pieces of 50/ 2,500 pieces per box

ISO 8037/1

| | | |
|-----------------|------------------|-----------------|
| Art.No. | 42406010 | 42406020 |
| Matt stripes | both sides 20 mm | one side 20 mm |
| Dimensions (mm) | 76 x 26 x 1 | 76 x 26 x 1 |
| Material | Soda-lime glass | Soda-lime glass |

Microscope slides with frosted end on both sides

ground edges at 90°, cut
selected glass quality,
non-corrosive,
ready to use,
pre-cleaned



+ packed in pieces of 50/ 2,500 pieces per box

ISO 8037/1

| | |
|-----------------|------------------|
| Art.No. | 42407010 |
| Frosted end | both sides 20 mm |
| Dimensions (mm) | 76 x 26 x 1 |
| Material | Soda-lime glass |

Microscope slides Superfrost® Plus

ground edges at 90°,
adhesive surface,
with positive charge



A glass slide used for the collection, preservation, and/or transport of a clinical sample or smear for analysis and/or other examination. It is a disposable product.

+ packed in pieces of 72

ISO 8037/1

| | |
|-----------------|-----------------|
| Art.No. | 42409110 |
| Colour | white |
| Dimensions (mm) | 75 x 25 x 1 |
| Material | Soda-lime glass |

SuperFrost®-Microscope slides

with colour code,
cut edges



Sophisticated labeling system for all preparations in medical and scientific laboratories. SuperFrost® slides have a coated labeling field in one of five standard colours.

Preparations can thus be identified or labeled according to urgency, examination method, staining technique, etc.

The coating of the labeling field is resistant to all common solvents.

+ packed in pieces of 50

+ 5000 pieces per box

ISO 8037/1

| Art.No. | Colour |
|----------|--------|
| 42408010 | blue |
| 42408020 | yellow |
| 42408030 | green |
| 42408050 | pink |
| 42408060 | white |

| | |
|-----------------|-------------------|
| Dimensions (mm) | 76 x 26 x 1 |
| Material | extra white glass |

SuperFrost®-Microscope slides

with colour code,
ground edges at 90°



Sophisticated labeling system for all preparations in medical and scientific laboratories. SuperFrost® slides have a coated labeling field in one of five standard colours.

Preparations can thus be identified or labeled according to urgency, examination method, staining technique, etc.

The coating of the labeling field is resistant to all common solvents.

+ packed in pieces of 50

+ 5000 pieces per box

CE

ISO 8037/1

| Art.No. | Colour |
|----------|--------|
| 42409010 | blue |
| 42409020 | yellow |
| 42409030 | green |
| 42409040 | orange |
| 42409050 | pink |
| 42409060 | white |

| | |
|-----------------|-------------------|
| Dimensions (mm) | 76 x 26 x 1 |
| Material | extra white glass |

Microscope slides Polysine®

ground edges at 90°



These slides come with a permanent adhesive. This provides superior cell and tissue adhesion. They save money and time by eliminating the need for expensive adhesives and time-consuming coating techniques. Test results can be obtained quickly with less effort.

Polysine® microscope slides are insensitive to the effects of enzymes or heating and are therefore ideal for immunocytochemical and molecular hybridisation assays on cell preparations or paraffin-embedded tissue sections. Cytological preparations resist the loss of cells during extended staining procedures.

Tissue loss during prolonged insitu-DNA-hybridisation techniques therefore no longer occur.

Polysine® microscope slides offer superior adhesion to slides treated with urea, protein or silane. Polysine® slides have not only been developed for research anatomists, cell immunologists and molecular biologists, but also for surgical molecular pathology.

The electrostatic and chemical attraction of Polysine® slides is effective in:

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

ISO 8037/1

| | |
|-----------------|-------------|
| Art.No. | 42409210 |
| Dimensions (mm) | 75 x 25 x 1 |
| Colour | white |

+ shelf life: up to 24 months

+ packed in pieces of 72

+ minimum order quantity: 20 packs

Microscope slides

with one cavity

clear glass, ground edges at 90°



Lin. Coefficient of expansion: $9.6 \cdot 10^{-7} \text{ K}^{-1}$

Density: 2.479 g/cm³

Upper cooling temperature: 513°C

Softening temperature: 720°C

+ pre cleaned

+ made of soda lime glass of third hydrolytic class

+ packed in pieces of 20

+ ready for use

| | |
|-----------------|-----------------|
| Art.No. | 42415010 |
| Cavities (mm) | 1.75 x 18-22 Ø |
| Dimensions (mm) | 76 x 26 x 3 |
| Material | Soda-lime glass |

Microscope slides

with one cavity

clear glass, ground edges at 90°



Lin. Coefficient of expansion: $9.6 \cdot 10^{-7} \text{ K}^{-1}$

Density: 2.479 g/cm³

Upper cooling temperature: 513°C

Softening temperature: 720°C

+ packed in pieces of 50

| | |
|-----------------|-----------------|
| Art.No. | 42410010 |
| Cavities (mm) | 0.7 x 16 Ø |
| Dimensions (mm) | 76 x 26 x 1.5 |
| Material | Soda-lime glass |

Microscope slides

with two cavities

clear glass, ground edges at 90°



Lin. Coefficient of expansion: $9.6 \cdot 10^{-7} \text{ K}^{-1}$

Density: 2.479 g/cm³

Upper cooling temperature: 513°C

Softening temperature: 720°C

+ packaged in pieces of 50

| | |
|-----------------|-----------------|
| Art.No. | 42411010 |
| Cavities (mm) | 0.7 x 16 Ø |
| Dimensions (mm) | 76 x 26 x 1.5 |
| Material | Soda-lime glass |

Microscope slides

with three cavities

clear glass, ground edges at 90°



Lin. Coefficient of expansion: $9.6 \cdot 10^{-7} \text{ K}^{-1}$

Density: 2.479 g/cm³

Upper cooling temperature: 513°C

Softening temperature: 720°C

+ packaged in pieces of 50

| | |
|-----------------|-----------------|
| Art.No. | 42412010 |
| Cavities (mm) | 0.7 x 16 Ø |
| Dimensions (mm) | 76 x 26 x 1,5 |
| Material | Soda-lime glass |

Glass plates

with 12 cavities

frosted surface, rounded corners, individually packaged



Lin. Coefficient of expansion: $9.6 \cdot 10^{-7} \text{ K}^{-1}$

Density: 2.479 g/cm³

Upper cooling temperature: 513°C

Softening temperature: 720°C

| | |
|------------------------|-----------------|
| Art.No. | 42417010 |
| Cavities (mm) | 2 x 16 Ø |
| Cavities capacity (ml) | 0.2 |
| Dimensions (mm) | 76 x 60 x 4 |
| Material | Soda-lime glass |

Glass plates with 24 cavities

frosted surface, rounded corners, individually packaged

Lin. Coefficient of expansion: $9.1 \cdot 10^{-6} \text{ K}^{-1}$

Density: 2.49 g/cm³

Upper cooling temperature: 520°C

Softening temperature: 710°C

Tolerances: ± 1 mm for length and width; ± 0.5 mm for height



+ production: hand-pressed, edge finely ground and seamed

+ REACH and ROHS conform

| | |
|------------------------|-----------------|
| Art.No. | 42418010 |
| Cavities (mm) | 1.75 x 16 Ø |
| Cavities capacity (ml) | 0.07 |
| Dimensions (mm) | 140 x 85 x 3 |
| Material | Soda-lime glass |

Microscope slides

without matt strips
cut edges



Recommended for use with
the conventional labeling system.
Not suitable for direct printing or labelling.

ISO 8037/1

BASIC

| | |
|------------------|----------|
| Art.No. | 52400010 |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| PU (pcs/box) | 50 |
| PU (pcs/carton)* | 2,500 |

*equals minimum order quantity

Microscope slides

without matt strips
ground edges



Recommended for use with
the conventional labeling system.
Not suitable for direct printing or labelling.

ISO 8037/1

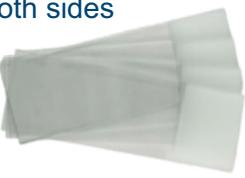
BASIC

| | |
|------------------|----------|
| Art.No. | 52401010 |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| PU (pcs/box) | 50 |
| PU (pcs/carton)* | 2,500 |

*equals minimum order quantity

Microscope slides

with frosted edges
on both sides
cut



The slides have a matt surface on both sides at one end.
Both matt surfaces are resistant to all common laboratory
chemicals and dyes.

Recommended for use with the conventional labeling system
and labeling with pencils or marker pens. Simplifies work and
increases efficiency compared to one-sided frosted slides, as
they allow for a more flexible way of working.

ISO 8037/1

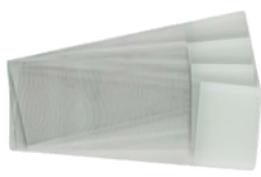
BASIC

| | |
|------------------|----------|
| Art.No. | 52406010 |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| PU (pcs/box) | 50 |
| PU (pcs/carton)* | 2,500 |

*equals minimum order quantity

Microscope slides

with white colour code
cut



The slides are equipped with 1 silky frosted surface at one end;
the frosted surface is 20 mm deep and resistant to all common
chemicals and routine stains used in the laboratory.

Recommended for labeling with the conventional labeling system
and labeling with pencils or marking pens.

ISO 8037/1

BASIC

| | |
|------------------|----------|
| Art.No. | 52408060 |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| PU (pcs/box) | 50 |
| PU (pcs/carton)* | 2,000 |

*equals minimum order quantity

Diagnostic microscope slides

1 counting field,
with blue epoxy coating,
ground edges at 90°

- + shelf life up to 24 months
- + packed in pieces of 100



ISO 8037/1

| | |
|---------------------|----------|
| Art.No. | 42424010 |
| Counting field (mm) | 8 Ø |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| Colour | blue |

Diagnostic microscope slides

3 numbered counting fields,
with black epoxy coating,
ground edges at 90°

- + shelf life: up to 24 months
- + packed in pieces of 100



ISO 8037/1

| | |
|---------------------|----------|
| Art.No. | 42422010 |
| Counting field (mm) | 10 Ø |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| Colour | black |

Diagnostic microscope slides

3 counting fields,
with black epoxy coating,
ground edges at 90°

- + shelf life: up to 24 months
- + packed in pieces of 100



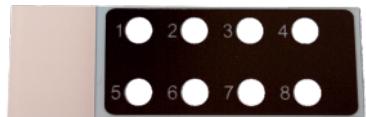
ISO 8037/1

| | |
|---------------------|----------|
| Art.No. | 42421010 |
| Counting field (mm) | 14 Ø |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| Colour | black |

Diagnostic microscope slides

8 numbered counting fields,
with black epoxy coating,
ground edges at 90°

- + shelf life: up to 24 months
- + packed in pieces of 100



ISO 8037/1

| | |
|---------------------|----------|
| Art.No. | 42420010 |
| Counting field (mm) | 6 Ø |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| Colour | black |

Diagnostic microscope slides

10 counting fields,
with black epoxy coating,
ground edges at 90°

- + shelf life: up to 24 months
- + packed in pieces of 100



ISO 8037/1

| | |
|---------------------|----------|
| Art.No. | 42423010 |
| Counting field (mm) | 6 Ø |
| Dimensions (mm) | 75 x 25 |
| Thickness (mm) | 1 |
| Colour | black |

Slide folders

without lid,
for 20 microscope slides,
with grey paper,
made of sturdy cardboard



Made from recycled cardboard,
approx. 2 mm thick, this slide
folder is also recyclable.

| Art.No. | Dimensions (mm) | for slides (mm) |
|----------|-----------------|-----------------|
| 42698010 | 340 x 200 x 5 | 76 x 26 x 1 |

Slide folders

with lid and back reinforcement



Made from recycled cardboard,
approx. 2 mm thick, this slide
folder is also recyclable.

| Art.No. | Dimensions (mm) | for slides (mm) | Number of slides |
|----------|-----------------|-----------------|------------------|
| 42700001 | 95 x 46 x 5 | 76 x 26 x 1 | 1 |
| 42700002 | 100 x 88 x 6 | 76 x 26 x 1 | 2 |
| 42700003 | 120 x 100 x 6 | 76 x 26 x 1 | 3 |
| 42700005 | 185 x 106 x 6 | 76 x 26 x 1 | 5 |
| 42700010 | 342 x 100 x 7 | 76 x 26 x 1 | 10 |
| 42700020 | 342 x 200 x 6 | 76 x 26 x 1 | 20 |

Slide cases with wooden frame for 100 microscope slides

Antistatic, covered with black paper, bottom part and lid connected by 2 metal hinges and clasps, numbered plastic dividers (antistatic, xylene-resistant) with numbered index on the inside, hinge side protected by corrugated cardboard.

The microscope slide storage boxes are
suitable for storing in the freezer.

Frame material:

MDF (medium density fibreboard)

Material base and lid: Cardboard

Cover material: Paper

Lock and hinge material: Brass



| Art.No. | Dimensions (mm) | for slides (mm) | Colour | Weight (g) |
|----------|-----------------|-----------------|--------|------------|
| 42701010 | 275 x 195 x 35 | 76 x 26 x 1 | black | 400 |

Slide cases made of polypropylene for 100 microscope slides



with numbered plastic dividers from
1 to 100, (antistatic, xylene-resistant),
stackable

| Art.No. | Colour | Weight (g) |
|-----------------|--------|-----------------|
| 42701020 | black | 228 |
| Dimensions (mm) | | for slides (mm) |
| 265 x 185 x 33 | | 76 x 26 x 1 |

Slide cases with wooden frame, for 50 microscope slides

Antistatic, covered with black paper, bottom part and lid connected by 2 metal hinges and clasps, numbered plastic dividers (antistatic, xylene-resistant) with numbered index on the inside, hinge side protected by corrugated cardboard.



The microscope slide storage boxes are
suitable for storing in the freezer.

| Art.No. | Dimensions (mm) | for slides (mm) | Colour |
|----------|-----------------|-----------------|--------|
| 42702010 | 275 x 115 x 35 | 76 x 26 x 1 | black |

Slide cases

for 25 microscope slides
with wooden frame

Antistatic, covered with black paper, bottom part and lid connected by 2 metal hinges and clasps, numbered plastic dividers (antistatic, xylene-resistant) with numbered index on the inside, hinge side protected by corrugated cardboard.

The microscope slide storage boxes are suitable for storing in the freezer.



| Art.No. | Dimensions (mm) | for slides (mm) | Colour |
|----------|-----------------|-----------------|--------|
| 42703010 | 150 x 100 x 35 | 76 x 26 x 1 | black |

Slide cases

for 100 microscope slides, stackable, made of polypropylene, with hinged lid

Our standard slide boxes are perfect for storing or transporting slides in standard format. The moulded, rigid boxes hold the slides securely in their grooved slots.

Durable PP plastic boxes. The slots are numbered and correspond to the slide inventory sheet.



| Art.No. | Dimensions (mm) | for slides (mm) | Colour |
|----------|-------------------|-----------------|--------|
| 42704001 | 210 x 169 x 33/34 | 76 x 26 x 1 | white |
| 42704002 | 210 x 169 x 33/34 | 76 x 26 x 1 | blue |
| 42704003 | 210 x 169 x 33/34 | 76 x 26 x 1 | red |

Microslide boxes

for 50 slides, made of polystyrene

- + with tight-fitting lid
- + removable index card in the lid
- + numbered bottom
- + stackable



| Art.No. | Dimensions (mm) | for slides (mm) | Colour |
|----------|-----------------|-----------------|--------|
| 42705002 | 172 x 83 x 30 | 76 x 26 x 1 | blue |
| 42705003 | 172 x 83 x 30 | 76 x 26 x 1 | red |
| 42705010 | 172 x 83 x 30 | 76 x 26 x 1 | white |

Slide drying bench electric 230 V

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 the bars
- + leaning against the bars
- + laying flat on the heating foil
- + with power connection 230 VAC
- + upon request 115 VAC power connection is available



+ the case and top are painted aluminium



| Art.No. | Dimensions (mm) | Heating element | Weight (kg) |
|--------------------------------------|-------------------|---------------------|-------------|
| 42395010 | 400 x 186 x 105 | Heating foil | 1.5 |
| Heating temperature | Case | Max. capacity | |
| room temperature up to +100°C/+212°F | painted aluminium | 150W, 230V, 50/60Hz | |



Slide dispenser for 72 standard size slides 76 x 26 mm

- + cleaned and dust free
- + no fingerprints as slides are only removed from the sides
- + dispenses one slide at a time

The delivery does not include microscope slides.

| | |
|-----------------|-----------------|
| Art.No. | 42440010 |
| Material | ABS |
| Dimensions (mm) | 120 x 100 x 165 |

Lens tissue paper



For cleaning sensitive surfaces such as lenses, slides, cover glasses.

The surfaces are cleaned without scratching and remain free of dust and fibres.

| Art.No. | Dimensions (mm) | Sheets |
|----------|-----------------|---------|
| 41019010 | 90 x 72 | 500/box |

Cover glass forceps nickel-plated, curved, grooved



| Art.No. | Length (mm) |
|----------|-------------|
| 41020010 | 105 |

Cover glasses - square in boxes of 100 – thickness 1 (0.13 - 0.16 mm)

- + in plastic boxes,
- 10 boxes/1000 glasses per carton
- + made from chemically resistant borosilicate glass D 263® M of the first hydrolytic class
- + DIN ISO 8255
- + colourless, perfectly clear



| Art.No. | Dimensions (mm) | Art.No. | Dimensions (mm) |
|----------|-----------------|----------|-----------------|
| 40990101 | 10 x 10 | 40990130 | 32 x 22 |
| 40990103 | 12 x 12 | 40990133 | 32 x 24 |
| 40990106 | 15 x 15 | 40990136 | 36 x 24 |
| 40990109 | 18 x 18 | 40990139 | 40 x 22 |
| 40990112 | 20 x 20 | 40990142 | 40 x 24 |
| 40990115 | 22 x 22 | 40990148 | 46 x 24 |
| 40990118 | 24 x 18 | 40990151 | 50 x 24 |
| 40990121 | 24 x 24 | 40990157 | 55 x 24 |
| 40990124 | 26 x 21 | 40990160 | 55 x 25 |
| 40990127 | 30 x 24 | 40990166 | 60 x 24 |

Cover glasses - square

in boxes of 50 – thickness 1 (0.13 - 0.16 mm)

- + in plastic boxes, 20 boxes/1000 glasses per carton
- + made from chemically resistant borosilicate glass D 263® M
- + DIN ISO 8255



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 41000109 | 18 x 18 |
| 41000112 | 20 x 20 |
| 41000115 | 22 x 22 |
| 41000121 | 24 x 24 |
| 41000124 | 26 x 21 |
| 41000133 | 32 x 24 |
| 41000142 | 40 x 24 |
| 41000166 | 60 x 24 |

Cover glasses - circular

in boxes of 100 – thickness 1 (0.13 - 0.16 mm)

- + in plastic boxes, 10 boxes/1000 glasses per carton
- + made from chemically resistant borosilicate glass D 263® M
- + DIN ISO 8255



| Art.No. | Diameter (mm) | Art.No. | Diameter (mm) |
|----------|---------------|----------|---------------|
| 41001103 | 3 | 41001117 | 17 |
| 41001105 | 5 | 41001118 | 18 |
| 41001108 | 8 | 41001120 | 20 |
| 41001110 | 10 | 41001122 | 22 |
| 41001112 | 12 | 41001124 | 24 |
| 41001113 | 13 | 41001125 | 25 |
| 41001114 | 14 | 41001130 | 30 |
| 41001115 | 15 | | |

Cover glasses - rectangular

in boxes of 50 – selected thickness 0.17 ± 0.01 mm

- + in plastic boxes of 50, except for 41014524 and 41014533: in boxes of 100
- + 20 or 10 boxes/1000 glasses per carton



| Art.No. | Dimensions (mm) |
|----------|-----------------|
| 41014509 | 18 x 18 |
| 41014512 | 20 x 20 |
| 41014515 | 22 x 22 |
| 41014521 | 24 x 24 |
| 41014524 | 26 x 21 |
| 41014533 | 32 x 24 |
| 41014542 | 40 x 24 |
| 41014551 | 50 x 24 |

Cover glasses - square



- + thickness 1 = 0.13 - 0.16 mm
- + DIN ISO 8255
- + packed in 200 pieces/box: 1.000 pieces



| Art.No. | Dimensions (mm) | Material |
|----------|-----------------|-----------------|
| 50990109 | 18 x 18 | Soda-lime glass |
| 50990112 | 20 x 20 | Soda-lime glass |
| 50990115 | 22 x 22 | Soda-lime glass |
| 50990151 | 50 x 24 | Soda-lime glass |
| 50990166 | 60 x 24 | Soda-lime glass |

Cover glasses - circular



- + thickness 1 = 0.13 - 0.16 mm
- + DIN ISO 8255
- + packed in 100 pieces/box: 1.000 pieces



| Art.No. | Diameter (mm) | Material |
|----------|---------------|-----------------|
| 51001112 | 12 | Soda-lime glass |
| 51001118 | 18 | Soda-lime glass |

Assistant Counting Chambers



Assistant counting chambers are precise measuring instruments to determine the number of particles in liquids. They are made of special optical glass.

For applications in accordance with Regulation (EU) 2017/746 on in vitro diagnostic medical devices (IVDR), counting chambers with CE marking have to be used, outside the EU, it is also possible to use without this labelling.

With a format of approx. 76 x 32 mm and special chamber structures, they offer precise quantification of cell populations in a defined area.

These counting chambers are frequently used in haematology for the determination of blood cells and in microbiology for the analysis of bacteria or yeasts.

Customised designs with individual depths are available on request. Each counting chamber is supplied with 2 optically flat cover glasses in a transparent plastic box.

Bright-line counting chambers:

The grid is created by electroplated chromium coating. The bright chromium lines provide high contrast under the microscope, enabling easy and precise evaluation.

Cover glasses for hemocytometers

These cover glasses are used to cover cell suspensions in counting chambers. The cover glass is placed on the bars of the counting chamber and adheres there due to the flatness of the contact surfaces. It thus precisely limits the height of the capillary gap between the chamber base and the underside of the cover glass and defines the volume of the cell suspension above the counting grid.

Additional benefit:

The excellent grinding quality of the edges of our hemocytometer cover glasses makes blood smears particularly successful.

- + made from special optical glass
- + ready for use
- + edges ground and polished
- + for in-vitro diagnostic applications in accordance with guideline (EU) 2017/746, with batch number for comprehensive information and traceability
- + packed in pieces of 10



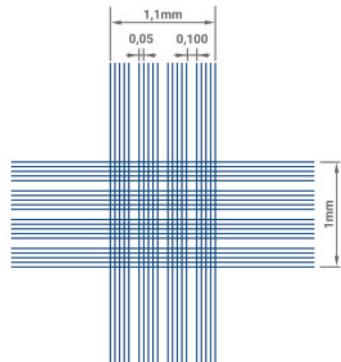
| Art.No. | Dimensions (mm) | Thickness (mm) |
|----------|-----------------|----------------|
| 40412710 | 30 x 30 | 0.4 |
| 40415710 | 20 x 26 | 0.4 |
| 40416710 | 22 x 22 | 0.4 |
| 40417710 | 24 x 24 | 0.4 |

Counting chambers Thoma new

Ruling: Total surface area: 1.21 mm^2 / divided into 16 groups of squares like Thoma ruling, but without marginal squares, where the erythrocytes easily agglomerate at the triple lines.

CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40447702 | double ruling, without clamps | 0.1 |



Counting chambers Neubauer

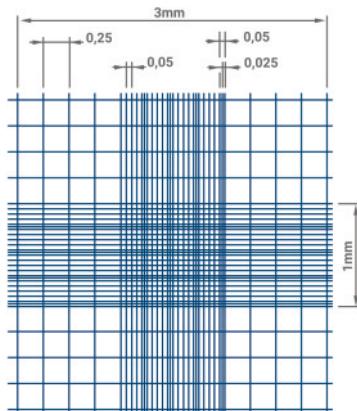
Ruling: 9 large squares of 1 mm^2 each = 9.0 mm^2

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

| Art.No. | Variant | Chamber depth (mm) |
|----------|---|--------------------|
| 40441001 | single ruling, without clamps | 0.1 |
| 40441002 | double ruling, without clamps | 0.1 |
| 40441003 | double ruling, with clamps | 0.1 |
| 40441012 | double ruling, bright-line, with clamps | 0.1 |

CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|---|--------------------|
| 40441701 | single ruling, without clamps | 0.1 |
| 40441702 | double ruling, without clamps | 0.1 |
| 40441703 | double ruling, with clamps | 0.1 |
| 40441712 | double ruling, bright-line, with clamps | 0.1 |



for counting erythrocytes
and leucocytes

Counting chambers Neubauer improved

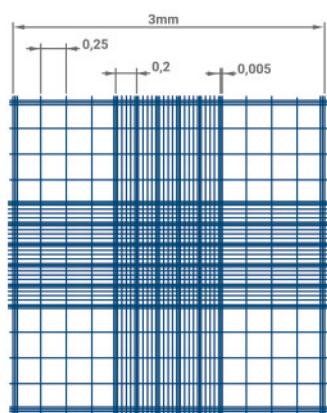
Ruling: 9 large squares of 1 mm^2 = 9 mm^2

The central square of 1 mm^2 contains 25 groups of squares divided into 16 mini squares of $0.05 \times 0.05 \text{ mm}$ each. The unique feature of the Neubauer improved counting grid are the triple marginal lines on all sides of the group squares. The middle line is decisive for the counting.

| Art.No. | Variant | Chamber depth (mm) |
|----------|--|--------------------|
| 40442002 | double ruling, without clamps | 0.1 |
| 40442012 | double ruling, bright-line, without clamps | 0.1 |

CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|--|--------------------|
| 40442702 | double ruling, without clamps | 0.1 |
| 40442712 | double ruling, bright-line, without clamps | 0.1 |



for counting
erythrocytes and leucocytes

Counting chambers Bürker

for counting thrombocytes or erythrocytes

Ruling: 9 large squares – surface area: 1 mm² each = 9 mm²

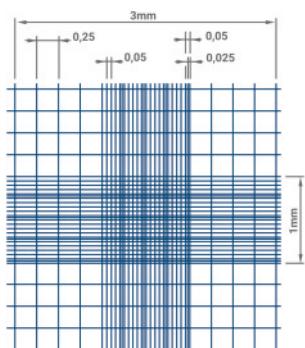
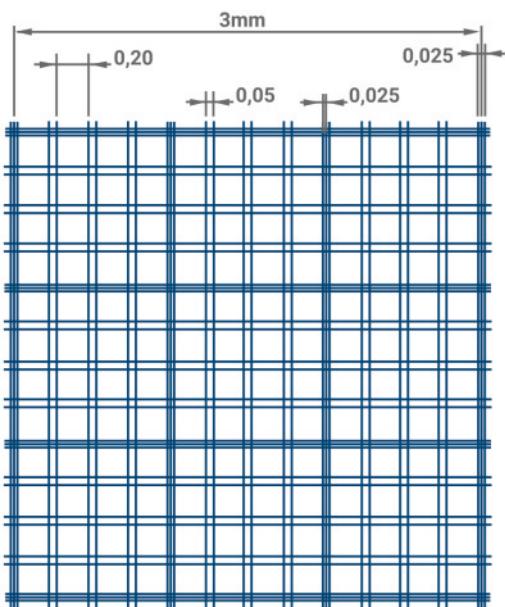
Each large square is divided into 16 groups of squares 0.2 x 0.2 mm by double lines.

Additionally, there are small squares of a surface area of 0.0025 mm² each.

| Art.No. | Variant | Chamber depth (mm) |
|----------|----------------------------|--------------------|
| 40443003 | double ruling, with clamps | 0.1 |

CE-Version

| Art.Nr. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40443701 | single ruling, without clamps | 0.1 |
| 40443702 | double ruling, without clamps | 0.1 |
| 40443703 | double ruling, with clamps | 0.1 |



Counting chambers Türk

Ruling:

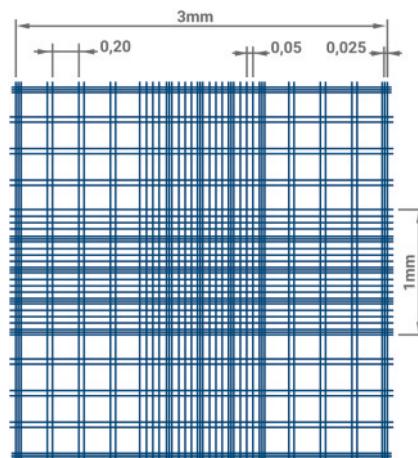
Total surface area: 9 mm²

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

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

CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40444702 | double ruling, without clamps | 0.1 |



Counting chambers Bürker-Türk

Ruling: combination of Bürker and Thoma

9 large squares of 1 mm² each

consisting of 16 groups of squares of 0.2 x 0.2 mm

Large central square: 16 small squares of 0.05 x 0.05 mm – surface area of 0.0025 mm² each

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40445002 | double ruling, without clamps | 0.1 |

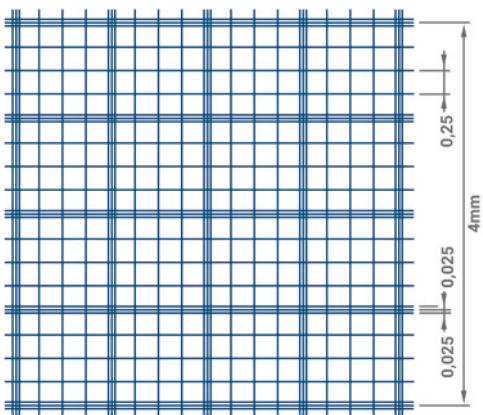
CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40445702 | double ruling, without clamps | 0.1 |
| 40445703 | double ruling, with clamps | 0.1 |

Counting chambers Fuchs-Rosenthal

Area: 0.0625 mm² each

Total counting grid area: 16 mm² 16 large squares, each measuring 1 mm²
each divided into 16 small squares measuring 0.25 x 0.25 mm –
for cell counting in cerebrospinal fluid (brain and spinal cord fluid)



| Art.Nr. | Variant | Chamber depth (mm) |
|----------|--|--------------------|
| 40449001 | single ruling, without clamps | 0.2 |
| 40449012 | double ruling, bright line, without clamps | 0.2 |

CE-Version

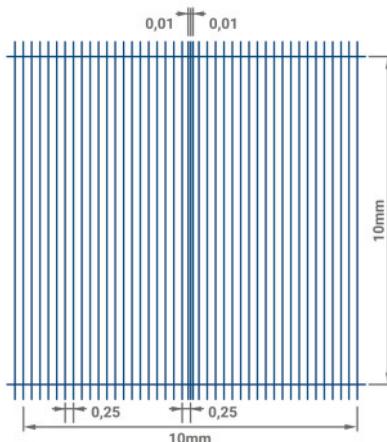
| Art.Nr. | Variant | Chamber depth (mm) |
|----------|--|--------------------|
| 40449701 | single ruling, without clamps | 0.2 |
| 40449702 | double ruling, without clamps | 0.2 |
| 40449703 | double ruling, with clamps | 0.2 |
| 40449712 | double ruling, bright line, without clamps | 0.2 |

Counting chambers Nageotte

chamber depth 0.5 mm

for the examination of lumbar fluid

Ruling: Total area: 100 mm²
divided into 40 rectangles of 10 x 0.25 mm each = 2.5 mm²
The middle of the ruling is marked by a double line.



| Art.Nr. | Variant |
|----------|-------------------------------|
| 40446001 | single ruling, without clamps |
| 40446002 | double ruling, without clamps |

CE-Version

| Art.Nr. | Variant |
|----------|-------------------------------|
| 40446701 | single ruling, without clamps |
| 40446702 | double ruling, without clamps |

Counting chambers Thoma

for thrombo and erythrocyte counting

Counting net large square (middle) – area: 1 mm²

consisting of: 16 group squares 0.2 x 0.2 mm - area: 0.04 mm²

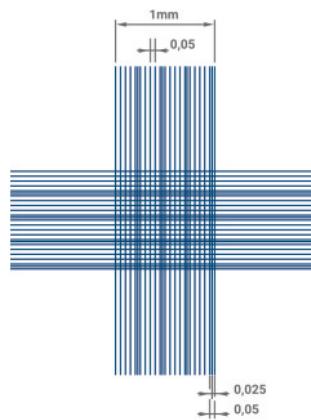
(resulting from the intermediate line at every 1st, 6th, 11th, and 16th square)

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

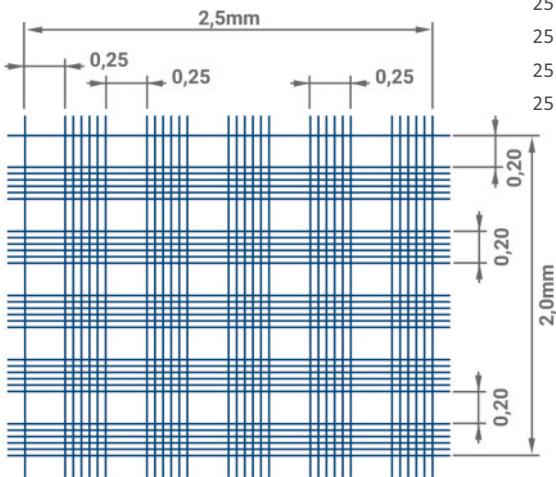
| Art.Nr. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40440001 | single ruling, without clamps | 0.1 |
| 40440002 | double ruling, without clamps | 0.1 |
| 40440003 | double ruling, with clamps | 0.1 |

CE-Version

| Art.Nr. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40440701 | single ruling, without clamps | 0.1 |
| 40440702 | double ruling, without clamps | 0.1 |
| 40440703 | double ruling, with clamps | 0.1 |



Counting chambers Malassez



Ruling: Total surface area: 5 mm² (2 x 2.5 mm), 100 rectangles 0.20 x 0.25 mm

consisting of:

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

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

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

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

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40453001 | single ruling, without clamps | 0.2 |
| 40453002 | double ruling, without clamps | 0.2 |

CE-Version

| Art.No. | Variant | Chamber depth (mm) |
|----------|-------------------------------|--------------------|
| 40453701 | single ruling, without clamps | 0.2 |
| 40453702 | double ruling, without clamps | 0.2 |

Counting chambers Sedgewick Rafter

Sedgewick Rafter counting chambers are used for counting particles and microorganisms in 1 ml of water or other transparent liquids, e.g. for analysing drinking water. The counting chambers are made of high-quality optical glass with a chrome grid (counting net).

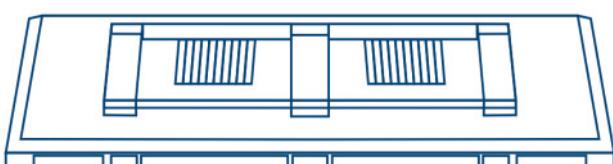
The cell = 1 cm³ is graduated with a 1 mm grid that divides 1 ml into 1000 µ.



| Art.No. | Variant |
|----------|--|
| 40430010 | Glass counting chamber with chrome grid for phase contrast with ground and bevelled edges, incl. cover glass |
| 40430110 | Replacement cover glass for Sedgewick Rafter counting chamber, approx. 60 x 30 x 1 mm |

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



| Art.No. | Variant | Counting area (mm) | Chamber depth (mm) |
|----------|-----------------------|--------------------|--------------------|
| 40454010 | with 2 counting areas | 10 x 10 x 1.5 | 0.2 |

EVEN
MORE

NEW TO THE RANGE

expanded selection of Life Science products



In our separate catalogue for healthcare products, you will find many more high-quality medical technology solutions for your needs:

These include an expanded selection of capillaries, pipettes, lancets, as well as needles and serum tubes for blood collection and testing.

We also offer aids specifically for diabetics. From blood measurement and antiseptic disinfectant wipes to insulin syringes, we offer a range of solutions for maximum and individual patient well-being.

Furthermore, the range of medication administration products in the medical field is expanded to include syringes with or without needles, infusion and transfusion sets, as well as latex gloves, face masks and much more. The aim is to prevent, diagnose or treat diseases in order to improve the quality of life of patients.

Request our supplementary catalog by email.
info@assistent.eu

LIQUID HANDLING.

Precision in motion – for reliable laboratory processes

Aqueous solutions:

Routinely used biological buffer solutions and detergents, antifoaming agents, culture media, vitamine solutions, hydrogen peroxyde can be dispensed.

Alkaline solutions:

The components of our instruments are compatible with alkaline solutions.

Polar solvents:

Polar solutions such as ethanol, methanol, acetylacetone etc. can be processed.

Liquids that should not be dispensed include:

Concentrated or strongly oxidising acids and non-polar solvents, such as hydrocarbons and halogenated hydrocarbons .



Seripettor®

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 substances.

Limitations of use:

Liquids that do not affect the materials of the appliance can be dispensed in compliance with the following limits:

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

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

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

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

Advantages:

- + economical dispensing of non-aggressive liquids
- + easy cleaning and maintenance
- + all parts, incl. flasks and cylinders, are easily replaceable
- + faultless volume adjustment thanks to snap-in gear strip, easy to read
- + replaceable dispensing cartridge
- + 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



| Art.No. | Division (ml) | Capacity (ml) |
|----------|---------------|---------------|
| 40163010 | 0.2 | 1.0 - 10 |
| 40163025 | 0.5 | 2.5 - 25 |

Items supplied

- + 1 Seripettor Art.No. 40163... (without bottle)
- + 2 dispensing cartridges Art.No. 40164...
- + 1 discharge tube Art.No. 40165001
- + 1 filling tube Art.No. 40165...
- + 2 PP adapters (GL 45/32 and GL 45/S 40)
- + instructions for use

Seripettor®-accessories & spare parts

Valve sets

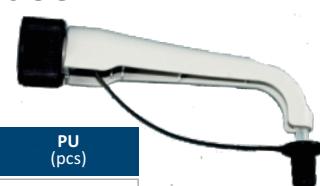
| Art.No. | Consisting of |
|----------|---|
| 40165004 | 1x intake valve 1x discharge valve 2x seals |



Discharge tubes

made of
polypropylene

| Art.No. | for capacity (ml) | PU (pcs) |
|----------|-------------------|----------|
| 40165001 | 10 and 25 | 1 |



Dispensing cartridges

consisting of a piston (PE) and cylinder (PP)

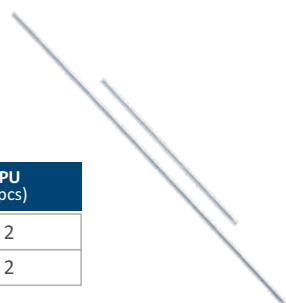
| Art.No. | for capacity (ml) | PU (pcs) |
|----------|-------------------|----------|
| 40164010 | 10 | 3 |
| 40164025 | 25 | 3 |



Filling tubes

made of polypropylene

| Art.No. | Length (mm) | PU (pcs) |
|----------|-------------|----------|
| 40165002 | 250 | 2 |
| 40165003 | 500 | 2 |



Dispensette® S digital DE-M labelled

Product Features:

- + new dosing cannula, without recirculation valve
- + new valve system - all valves seal without additional sealing rings, which makes cleaning and preparation for autoclaving easier
- + faster venting thanks to improved flow technology
- + less force required for dispensing - especially with large-volume appliances
- + secure volume fixation due to internal gear strip for analogue devices
- + swivelling screw cap - does not interfere with dosing

Reliable technology:

- + autoclavable at 121°C/249.8°F
- + adjustable within the scope of test equipment monitoring according to ISO 9001 and GLP
- + easy to dismantle for cleaning
- + replaceable filling and discharge valve with safety ball
(closes when dosing cannula is not fitted)
- + bottle label always visible thanks to 360° rotatable valve block
- + telescopic filling tube can be adjusted to different bottle heights
- + DE-M labelled
- + Doperating temperature from +15°C to +40°C of instrument and reagent

Particularly easy to read digital display via mechanical counter. The selected dosing volume can be set precisely and reproducibly. Easy Calibration Technology for adjustment within seconds without tools. Automatic labelling when the factory setting is changed.

Scope of delivery:

Bottle-top dispenser Dispensette®S,
DE-M labelled, with quality certificate,
telescopic filling tube, recirculation valve and
recirculation tube (optional), mounting wrench
and polypropylene adapter.

Areas of application:

Colour code red. Ideal for dispensing aggressive reagents,
e.g. concentrated alkalis, bases and acids such as H₃PO₄,
H₂SO₄ (except e.g. HCl, HNO₃ and HF), saline solutions
and many of organic solvents.



| Art.No. | Division (ml) | Capacity (ml) | Accuracy ≤ ± % | Coefficient of variation ≤ ± % |
|----------|---------------|---------------|-------------------|-----------------------------------|
| 40172001 | 0.005 | 0.1 - 1 | 0.5 | 0.1 |
| 40172002 | 0.01 | 0.2 - 2 | 0.5 | 0.1 |
| 40172005 | 0.02 | 0.5 - 5 | 0.5 | 0.1 |
| 40172010 | 0.05 | 1 - 10 | 0.5 | 0.1 |
| 40172025 | 0.1 | 2.5 - 25 | 0.5 | 0.1 |
| 40172050 | 0.2 | 5 - 50 | 0.5 | 0.1 |

Dispensette® S analogue

DE-M labelled

Areas of application:

Colour code red.

Ideal for dosing aggressive reagents, including concentrated bases and acids such as H_3PO_4 , H_2SO_4 (except e.g. HCl, HNO_3 and HF), saline solutions and many organic solvents.

Product Features:

- + new dosing cannula, without recirculation valve
- + new valve system - all valves seal without additional sealing rings, which makes cleaning and preparation for autoclaving easier
- + faster venting thanks to improved flow technology
- + less force required for dispensing - especially with large-volume appliances
- + secure volume fixation due to internal gear strip for analogue devices
- + swivelling screw cap - does not interfere with dosing



Reliable technology:

- + autoclavable at 121°C/249.8°F
- + adjustable within the scope of test equipment monitoring according to ISO 9001 and GLP
- + easy to dismantle for cleaning
- + replaceable filling and discharge valve with safety ball (closes when dosing cannula is not fitted)
- + bottle label always visible thanks to 360° rotatable valve block
- + telescopic filling tube can be adjusted to different bottle heights
- + DE-M labelled

Analogue volume display, quickly adjustable dosing volume, securely fixed by internal gear strip. Simple adjustment with mounting wrench.

Scope of delivery:

Bottle-top dispenser Dispensette®S, DE-M labelled, with quality certificate, telescopic filling tube, recirculation valve and recirculation tube (optional), mounting wrench and polypropylene adapter.

| Art.No. | Division (ml) | Capacity (ml) | Accuracy $\leq \pm \%$ | Coefficient of variation $\leq \pm \%$ |
|----------|---------------|---------------|------------------------|--|
| 40182001 | 0.02 | 0.1 - 1 | 0.5 | 0.1 |
| 40182002 | 0.05 | 0.2 - 2 | 0.5 | 0.1 |
| 40182005 | 0.1 | 0.5 - 5 | 0.5 | 0.1 |
| 40182010 | 0.2 | 1 - 10 | 0.5 | 0.1 |
| 40182025 | 0.5 | 2.5 - 25 | 0.5 | 0.1 |
| 40182050 | 1.0 | 5 - 50 | 0.5 | 0.1 |
| 40182100 | 1.0 | 10 - 100 | 0.5 | 0.1 |

Disposable pipette tips



- + packed in pieces of 200
- + raw materials free from DIHEMDA and Oleamid

| Art.No. | for capacity (μ l) | Colour |
|----------|-------------------------|------------|
| 40112010 | 5 - 5000 | colourless |

+ produced under cleanroom conditions

Disposable pipette tips

- + made from selected, hydrophobic PP
- + packed in pieces of 1000
- + optimal surface quality



| Art.No. | for capacity (μ l) | Colour |
|----------|-------------------------|--------|
| 40110010 | 2 - 200 | yellow |
| 40111010 | 101 - 1000 | blue |

Discharging tubes for Dispensette® S

without recirculation valve, PP screw cap



| Art.No. | Nominal value (ml) | Length (mm) | Variant | PU (pcs) |
|----------|--------------------|-------------|----------|----------|
| 40182101 | 1, 2, 5, 10 | 105 | fine tip | 1 |
| 40182102 | 5, 10 | 105 | standard | 1 |
| 40182103 | 25, 50, 100 | 135 | standard | 1 |
| 40182104 | 25, 50, 100 | 135 | fine tip | 1 |

Telescope filling tubes

for Dispensette® S

individually adjustable length



| Art.No. | Nominal value (ml) | Length (mm) | Outer Ø (mm) | PU (pcs) |
|----------|--------------------|-------------|--------------|----------|
| 40182301 | 1, 2, 5, 10 | 70 - 140 | 6 | 1 |
| 40182302 | 1, 2, 5, 10 | 125 - 240 | 6 | 1 |
| 40182303 | 1, 2, 5, 10 | 195 - 350 | 6 | 1 |
| 40182304 | 1, 2, 5, 10 | 250 - 480 | 6 | 1 |
| 40182305 | 25, 50, 100 | 170 - 330 | 7.6 | 1 |
| 40182306 | 25, 50, 100 | 240 - 480 | 7.6 | 1 |

Threaded bottles

amber glass



- + with transparent pouring ring
- + with screw cap made of polypropylene
- + steam sterilisable up to +121 °C/+249.8 °F

| Art.No. | Capacity (ml) | Thread (mm) | Variant | DIN |
|----------|---------------|-------------|---------|--------|
| 40190018 | 250 | A32 | square | DIN 32 |
| 40190024 | 500 | A32 | square | DIN 32 |
| 40190030 | 1000 | A32 | square | DIN 32 |
| 40190036 | 2500 | A32 | round | DIN 32 |

Threaded adapters



| Art.No. | Outside thread (mm) | Material | for bottle thread |
|----------|---------------------|---------------|-------------------|
| 40193004 | 32 | Polypropylene | A22 |
| 40193008 | 32 | Polypropylene | A25 |
| 40193012 | 32 | Polypropylene | A28 |
| 40193016 | 32 | Polypropylene | A30 |
| 40193020 | 45 | Polypropylene | A38 |
| 40193024 | 45 | Polypropylene | A40 |
| 40193028 | 32 | Polypropylene | A45 |
| 40193052 | 45 | Polypropylene | S40 |



Discharge tube coiled, with safety handle

With interchangeable coloured valve knobs
(colour code red, yellow or grey)
Not suitable for HF (hydrofluoric acid)

| Art.No. | Hose inner Ø (mm) | Hose outer Ø (mm) | Hose length (mm) | Nominal value (ml) | Material | PU (pcs) |
|----------|-------------------|-------------------|------------------|--------------------|----------|----------|
| 40182201 | 2 | 3 | 800 | 2, 5, 10 | PTFE | 1 |
| 40182202 | 3 | 4.5 | 800 | 25, 50, 100 | PTFE | 1 |

Digital burettes „Contibürette μ 10"

conformity certified, without bottle
with thread connection A 32



Continuous supply and measurement in the 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.



Complete with:

- + discharge tube, curved Art.No. 40210020
- + suction tube
- + 2 additional thread adapters A 45 and A 40
- + directions for use

Features:

- + can be calibrated
- + electronic measuring system
- + liquid supplied is indicated to two decimal places
- + smallest setting units 10 μ l
- + no glass piston, no valves, minimal dead volume
- + self-venting, measurement errors due to trapped gas or air bubbles are avoided
- + mechanics made of largely acid-resistant aluminium oxide (99,7 % Al_2O_3)
- + freely rotatable on the bottle
- + includes 2 AA 1.5 V batteries for approx. 500 operating hours

| Art.No. | 40210010 |
|---------------------------------|--------------------------------------|
| Min. dosing capacity (μ l) | 10 |
| Max. dosing capacity (ml) | 500 |
| Dosing accuracy (%) | < \pm 0.2 |
| Manual drive type | Manual |
| Coefficient of variation (%) | < \pm 0.1 |
| Temperature range | +10 to +40 °C / +50 to +104 °F |
| Calibration by the user | Yes |
| Pump head material | Al_2O_3 , ETFE / FEP |
| Power supply (V) | 3VDC (2 batteries AA) |
| Weight (g) | 390 |
| Dimensions (mm) | 175 x 93 x 60 |
| Safety class | IP43 |

Discharge tube for digital burette

- + curved
- + with finely drawn-out tip
- + cannula holder with safety thread



| Art.No. | 40210020 |
|----------|----------|
| Material | PTFE |

VOLUMETRIC INSTRUMENTS.

Volumetric instruments

Volumetric flasks

Volumetric flasks

Class A

PREMIUM

Boro
3.3

+ with interchangeable

NS stopper made of polyethylene

+ DE-M, ISO 1042

+ with standard ground joint

+ calibrated to contain "In"

+ amber graduation

+ with ISO batch certificate

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



| Art.No. | Capacity (ml) | Tolerance (± ml) | NS |
|----------|---------------|------------------|-------|
| 42095004 | 5 | 0.025 | 7/16 |
| 42095008 | 5 | 0.040 | 10/19 |
| 42095012 | 10 | 0.025 | 7/16 |
| 42095016 | 10 | 0.040 | 10/19 |
| 42095020 | 20 | 0.040 | 10/19 |
| 42095024 | 20 | 0.060 | 12/21 |
| 42095028 | 25 | 0.040 | 10/19 |
| 42095032 | 25 | 0.060 | 12/21 |
| 42095040 | 50 | 0.060 | 12/21 |
| 42095044 | 50 | 0.100 | 14/23 |
| 42095048 | 100 | 0.100 | 12/21 |
| 42095052 | 100 | 0.100 | 14/23 |
| 42095060 | 200 | 0.150 | 14/23 |
| 42095064 | 250 | 0.150 | 14/23 |
| 42095076 | 500 | 0.250 | 19/26 |
| 42095080 | 1000 | 0.400 | 24/29 |
| 42095084 | 1000 | 0.600 | 29/32 |
| 42095088 | 2000 | 0.600 | 29/32 |

Volumetric flasks

Class A

PREMIUM

Boro
3.3

+ with interchangeable

NS stopper made of polyethylene

+ DE-M, ISO 1042

+ with standard ground joint

+ calibrated to contain "In"

+ blue graduation

+ with ISO batch certificate

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



| Art.No. | Capacity (ml) | Tolerance (± ml) | NS |
|----------|---------------|------------------|-------|
| 42096004 | 5 | 0.025 | 7/16 |
| 42096008 | 5 | 0.040 | 10/19 |
| 42096012 | 10 | 0.025 | 7/16 |
| 42096016 | 10 | 0.040 | 10/19 |
| 42096020 | 20 | 0.040 | 10/19 |
| 42096024 | 20 | 0.060 | 12/21 |
| 42096028 | 25 | 0.040 | 10/19 |
| 42096032 | 25 | 0.060 | 12/21 |
| 42096040 | 50 | 0.060 | 12/21 |
| 42096044 | 50 | 0.100 | 14/23 |
| 42096048 | 100 | 0.100 | 12/21 |
| 42096052 | 100 | 0.100 | 14/23 |
| 42096060 | 200 | 0.150 | 14/23 |
| 42096064 | 250 | 0.150 | 14/23 |
| 42096076 | 500 | 0.250 | 19/26 |
| 42096079 | 900 | 0.400 | 24/29 |
| 42096080 | 1000 | 0.400 | 24/29 |
| 42096084 | 1000 | 0.600 | 29/32 |
| 42096088 | 2000 | 0.600 | 29/32 |

Volumetric flasks

Class A
without stopper

PREMIUM

Boro
3.3

- + DE-M, ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + blue graduation
- + with ISO batch certificate

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



| Art.No. | Capacity (ml) | Tolerance (\pm ml) | NS |
|----------|---------------|-----------------------|-------|
| 42097004 | 5 | 0.025 | 7/16 |
| 42097008 | 5 | 0.040 | 10/19 |
| 42097012 | 10 | 0.025 | 7/16 |
| 42097016 | 10 | 0.040 | 10/19 |
| 42097020 | 20 | 0.040 | 10/19 |
| 42097024 | 20 | 0.060 | 12/21 |
| 42097028 | 25 | 0.040 | 10/19 |
| 42097032 | 25 | 0.060 | 12/21 |
| 42097040 | 50 | 0.060 | 12/21 |
| 42097044 | 50 | 0.100 | 14/23 |
| 42097048 | 100 | 0.100 | 12/21 |
| 42097052 | 100 | 0.100 | 14/23 |
| 42097060 | 200 | 0.150 | 14/23 |
| 42097064 | 250 | 0.150 | 14/23 |
| 42097076 | 500 | 0.250 | 19/26 |
| 42097080 | 1000 | 0.400 | 24/29 |
| 42097084 | 1000 | 0.600 | 29/32 |
| 42097088 | 2000 | 0.600 | 29/32 |

Volumetric flasks

Class A
amber glass

PREMIUM

Boro
3.3

- + with interchangeable NS stopper made of polyethylene
- + ideal for handling light-sensitive solutions
- + DE-M, DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + white graduation
- + with ISO batch certificate

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



| Art.No. | Capacity (ml) | Tolerance (\pm ml) | NS |
|----------|---------------|-----------------------|-------|
| 42102008 | 5 | 0.04 | 10/19 |
| 42102016 | 10 | 0.04 | 10/19 |
| 42102020 | 20 | 0.04 | 10/19 |
| 42102028 | 25 | 0.04 | 10/19 |
| 42102040 | 50 | 0.06 | 12/21 |
| 42102044 | 50 | 0.10 | 14/23 |
| 42102048 | 100 | 0.10 | 12/21 |
| 42102052 | 100 | 0.10 | 14/23 |
| 42102060 | 200 | 0.15 | 14/23 |
| 42102064 | 250 | 0.15 | 14/23 |
| 42102076 | 500 | 0.25 | 19/26 |
| 42102080 | 1000 | 0.40 | 24/29 |

Volumetric instruments

Volumetric flasks

Volumetric flasks

Class A

BASIC

Boro
3.3



- + with interchangeable
- NS stopper made of polyethylene
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + amber graduation

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

Volumetric flasks

Class A

BASIC

Boro
3.3



- + with interchangeable
- NS stopper made of polyethylene
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + blue graduation

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

| Art.No. | Capacity (ml) | Tolerance (± ml) | NS | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|------------------|-------|-------------------------|----------|
| 52095004 | 5 | 0.025 | 7/16 | 70 x 22 Ø | 2 |
| 52095008 | 5 | 0.040 | 10/19 | 70 x 22 Ø | 2 |
| 52095016 | 10 | 0.040 | 10/19 | 90 x 27 Ø | 2 |
| 52095020 | 20 | 0.040 | 10/19 | 110 x 39 Ø | 2 |
| 52095024 | 20 | 0.060 | 12/21 | 110 x 39 Ø | 2 |
| 52095028 | 25 | 0.040 | 10/19 | 110 x 40 Ø | 2 |
| 52095032 | 25 | 0.060 | 12/21 | 110 x 40 Ø | 2 |
| 52095040 | 50 | 0.060 | 12/21 | 140 x 50 Ø | 2 |
| 52095044 | 50 | 0.100 | 14/23 | 140 x 50 Ø | 2 |
| 52095048 | 100 | 0.100 | 12/21 | 170 x 60 Ø | 2 |
| 52095052 | 100 | 0.100 | 14/23 | 170 x 60 Ø | 2 |
| 52095056 | 150 | 0.100 | 14/23 | 200 x 67 Ø | 2 |
| 52095060 | 200 | 0.150 | 14/23 | 210 x 75 Ø | 2 |
| 52095064 | 250 | 0.150 | 14/23 | 220 x 80 Ø | 2 |
| 52095068 | 300 | 0.150 | 14/23 | 230 x 87 Ø | 2 |
| 52095072 | 400 | 0.250 | 19/26 | 240 x 97 Ø | 2 |
| 52095076 | 500 | 0.250 | 19/26 | 260 x 100 Ø | 2 |
| 52095080 | 1000 | 0.400 | 24/29 | 300 x 125 Ø | 2 |
| 52095088 | 2000 | 0.600 | 29/32 | 370 x 160 Ø | 1 |
| 52095096 | 5000 | 1.200 | 34/35 | 475 x 215 Ø | 1 |

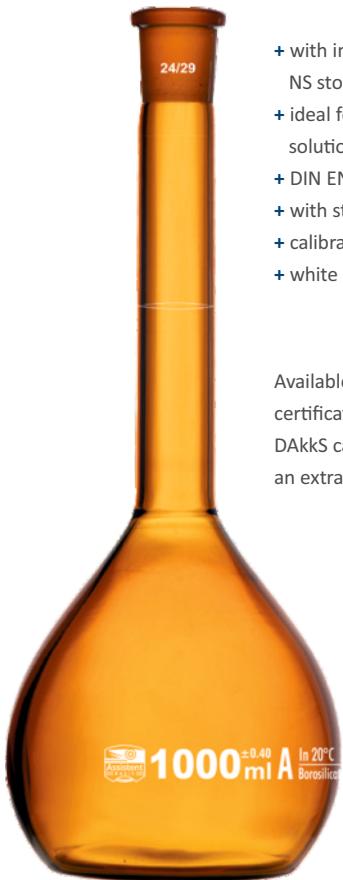
| Art.No. | Capacity (ml) | Tolerance (± ml) | NS | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|------------------|-------|-------------------------|----------|
| 52096004 | 5 | 0.025 | 7/16 | 70 x 22 Ø | 2 |
| 52096008 | 5 | 0.040 | 10/19 | 70 x 22 Ø | 2 |
| 52096016 | 10 | 0.040 | 10/19 | 90 x 27 Ø | 2 |
| 52096020 | 20 | 0.040 | 10/19 | 110 x 39 Ø | 2 |
| 52096024 | 20 | 0.060 | 12/21 | 110 x 39 Ø | 2 |
| 52096028 | 25 | 0.040 | 10/19 | 110 x 40 Ø | 2 |
| 52096032 | 25 | 0.060 | 12/21 | 110 x 40 Ø | 2 |
| 52096040 | 50 | 0.060 | 12/21 | 140 x 50 Ø | 2 |
| 52096044 | 50 | 0.100 | 14/23 | 140 x 50 Ø | 2 |
| 52096048 | 100 | 0.100 | 12/21 | 170 x 60 Ø | 2 |
| 52096052 | 100 | 0.100 | 14/23 | 170 x 60 Ø | 2 |
| 52096056 | 150 | 0.100 | 14/23 | 200 x 67 Ø | 2 |
| 52096060 | 200 | 0.150 | 14/23 | 210 x 75 Ø | 2 |
| 52096064 | 250 | 0.150 | 14/23 | 220 x 80 Ø | 2 |
| 52096068 | 300 | 0.150 | 14/23 | 230 x 87 Ø | 2 |
| 52096072 | 400 | 0.250 | 19/26 | 240 x 97 Ø | 2 |
| 52096076 | 500 | 0.250 | 19/26 | 260 x 100 Ø | 2 |
| 52096080 | 1000 | 0.400 | 24/29 | 300 x 125 Ø | 2 |
| 52096088 | 2000 | 0.600 | 29/32 | 370 x 160 Ø | 1 |
| 52096096 | 5000 | 1.200 | 34/35 | 475 x 215 Ø | 1 |

Volumetric flasks

Class A
amber glass

BASIC

Boro
3.3



- + with interchangeable NS stopper made of polyethylene
- + ideal for handling light-sensitive solutions
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + white graduation

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

PREMIUM

Boro
3.3

Volumetric flasks

with rim, Class B



| Art.Nr. | Capacity (ml) | Tolerance (± ml) |
|----------|---------------|------------------|
| 42089092 | 3000 | 1.2 |

- + ISO 1042
- + without ground, without stopper
- + calibrated to contain "In"
- + blue graduation

PREMIUM

Boro
3.3

Overflow volumetric flasks



- + calibrated to „Ex“
- + white graduation
- + for water analysis

| Art.No. | Capacity (ml) | Tolerance (± ml) | NS | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|------------------|-------|-------------------------|----------|
| 52102008 | 5 | 0.04 | 10/19 | 70 x 22 Ø | 2 |
| 52102016 | 10 | 0.04 | 10/19 | 90 x 27 Ø | 2 |
| 52102020 | 20 | 0.04 | 10/19 | 110 x 39 Ø | 2 |
| 52102028 | 25 | 0.04 | 10/19 | 110 x 40 Ø | 2 |
| 52102029 | 25 | 0.06 | 12/21 | 110 x 40 Ø | 2 |
| 52102040 | 50 | 0.06 | 12/21 | 140 x 50 Ø | 2 |
| 52102044 | 50 | 0.10 | 14/23 | 140 x 50 Ø | 2 |
| 52102048 | 100 | 0.10 | 12/21 | 170 x 60 Ø | 2 |
| 52102052 | 100 | 0.10 | 14/23 | 170 x 60 Ø | 2 |
| 52102060 | 200 | 0.15 | 14/23 | 210 x 75 Ø | 2 |
| 52102064 | 250 | 0.15 | 14/23 | 220 x 80 Ø | 2 |
| 52102076 | 500 | 0.25 | 19/26 | 260 x 100 Ø | 2 |
| 52102080 | 1000 | 0.40 | 24/29 | 300 x 125 Ø | 2 |
| 52102088 | 2000 | 0.60 | 29/32 | 370 x 160 Ø | 1 |

| Art.No. | Capacity (ml) | Height approx. (mm) | Tolerance (± ml) |
|----------|---------------|---------------------|------------------|
| 42115012 | 43.5 | 80 | 0.120 |
| 42115024 | 97 | 95 | 0.200 |
| 42115030 | 157 | 110 | 0.300 |
| 42115042 | 164 | 110 | 0.300 |
| 42115048 | 250 | 140 | 0.300 |
| 42115072 | 428 | 165 | 0.500 |
| 42115078 | 432 | 150 | 0.500 |

Volumetric instruments

Volumetric flasks

Volumetric flasks

Class A

trapezoidal, clear glass

- + with interchangeable NS stopper made of polyethylene
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + blue graduation
- + with ISO batch certificate

Available on request with individual certificate,
USP batch certificate & DAkkS calibration certificate



PREMIUM

Boro
3.3

| Art.No. | Capacity (ml) | Tolerance (± ml) | NS |
|----------|---------------|------------------|-------|
| 42110006 | 1 | 0.025 | 7/16 |
| 42110012 | 2 | 0.025 | 7/16 |
| 42110018 | 5 | 0.025 | 7/16 |
| 42110024 | 10 | 0.025 | 7/16 |
| 42110030 | 20 | 0.040 | 10/19 |
| 42110036 | 25 | 0.040 | 10/19 |
| 42110042 | 50 | 0.060 | 12/21 |

Volumetric flasks

Class A

trapezoidal, clear glass

- + with interchangeable NS stopper made of polyethylene
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + blue graduation
- + with ISO batch certificate

Available on request with individual certificate,
USP batch certificate & DAkkS calibration certificate
at an extra charge.



BASIC

Boro
3.3

| Art.No. | Capacity (ml) | Tolerance (± ml) | NS | PU (pcs) |
|----------|---------------|------------------|-------|----------|
| 52110006 | 1 | 0.025 | 7/16 | 2 |
| 52110012 | 2 | 0.025 | 7/16 | 2 |
| 52110014 | 3 | 0.025 | 7/16 | 2 |
| 52110016 | 4 | 0.025 | 7/16 | 2 |
| 52110018 | 5 | 0.025 | 7/16 | 2 |
| 52110024 | 10 | 0.025 | 10/19 | 2 |
| 52110030 | 20 | 0.040 | 10/19 | 2 |
| 52110036 | 25 | 0.040 | 10/19 | 2 |
| 52110042 | 50 | 0.060 | 12/21 | 2 |

Volumetric flasks

Class A

trapezoidal, amber glass

- + with interchangeable NS stopper made of polyethylene
- + DIN EN ISO 1042
- + with standard ground joint
- + calibrated to contain "In"
- + white graduation
- + with ISO batch certificate

Available on request with individual certificate,
USP batch certificate & DAkkS calibration certificate
at an extra charge.



BASIC

Boro
3.3

| Art.No. | Capacity (ml) | Tolerance (± ml) | NS | PU (pcs) |
|----------|---------------|------------------|-------|----------|
| 52112006 | 1 | 0.025 | 7/16 | 2 |
| 52112012 | 2 | 0.025 | 7/16 | 2 |
| 52112014 | 3 | 0.025 | 7/16 | 2 |
| 52112016 | 4 | 0.025 | 7/16 | 2 |
| 52112018 | 5 | 0.025 | 7/16 | 2 |
| 52112024 | 10 | 0.025 | 10/19 | 2 |
| 52112030 | 20 | 0.040 | 10/19 | 2 |
| 52112036 | 25 | 0.040 | 10/19 | 2 |
| 52112042 | 50 | 0.060 | 12/21 | 2 |

Measuring cylinders in accordance with DIN EN ISO 4788

Our measuring cylinders stand for precise volume measurement and high chemical resistance. Made from high-quality glass or durable plastic, they meet all requirements for accuracy, stability and easy readability.

Ideal for daily use in laboratories, research and industry.

Accuracy classifications:

Class A

- + ring graduation
- + DE-M
- + with batch number
- + with ISO batch certificate
- + calibrated to contain "In"

Class B

- + for lower accuracy
- + line graduation
- + calibrated to contain "In"

Class A measuring cylinders are supplied with a batch number and an ISO batch certificate per original packaging.

Also available on request with individual certificate, DAkkS calibration certificate or USP version.

Mixing cylinders

Class A
tall form

BASIC

Boro
3.3

- + with interchangeable stopper made of polyethylene
- + hexagonal base does not allow roll-over and offers more stability
- + DIN EN ISO 4788
- + with standard ground joint
- + with batch certificate
- + calibrated to contain "In"
- + blue graduation



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (\pm ml) | NS | PU (pcs) |
|----------|---------------|---------------|-----------------------|-------|----------|
| 52215012 | 10 | 0.2 | 0.10 | 10/19 | 2 |
| 52215018 | 25 | 0.5 | 0.25 | 14/23 | 2 |
| 52215024 | 50 | 1.0 | 0.50 | 19/26 | 2 |
| 52215030 | 100 | 1.0 | 0.50 | 24/29 | 2 |
| 52215048 | 250 | 2.0 | 1.00 | 29/32 | 2 |
| 52215060 | 500 | 5.0 | 2.50 | 34/35 | 2 |
| 52215066 | 1000 | 10.0 | 5.00 | 45/40 | 1 |
| 52215072 | 2000 | 20.0 | 10.0 | 45/40 | 1 |

Measuring cylinders

made of polypropylene, Class B
low form

PREMIUM

- + round base
- + calibrated to contain "In"
- + with molded graduations
- + transparent
- + thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded.
- + suitable for contact with foodstuffs acc. to regulation (EU) No. 10/2011



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (\pm ml) | Height (mm) | Diameter (mm) |
|----------|---------------|---------------|-----------------------|-------------|---------------|
| 42208018 | 25 | 0.5 | 0.5 | 120 | 25 |
| 42208024 | 50 | 1.0 | 1.0 | 140 | 29 |
| 42208030 | 100 | 2.0 | 2.0 | 163 | 37 |
| 42208048 | 250 | 5.0 | 5.0 | 192 | 51 |
| 42208060 | 500 | 10.0 | 10.0 | 218 | 67 |
| 42208066 | 1000 | 20.0 | 20.0 | 285 | 78 |

Measuring cylinders

made of polypropylene,
Class B, tall form

PREMIUM

- + hexagonal base
- + DIN 12681
- + ISO 6706
- + calibrated to contain "In"
- + embossed blue scale
- + highly transparent
- + thermal stress of graduation up to 125°C/257°F
- + food-safe acc. to (EU) No. 10/2011



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (± ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|---------------|---------------|------------------|---------------------|-----------------------|
| 42194012 | 10 | 0.2 | 0.2 | 145 | 14 |
| 42194018 | 25 | 0.5 | 0.5 | 170 | 20 |
| 42194024 | 50 | 1.0 | 1.0 | 200 | 26 |
| 42194030 | 100 | 1.0 | 1.0 | 250 | 31 |
| 42194048 | 250 | 2.0 | 2.0 | 315 | 42 |
| 42194060 | 500 | 5.0 | 5.0 | 360 | 54 |
| 42194066 | 1000 | 10.0 | 10.0 | 440 | 65 |
| 42194072 | 2000 | 20.0 | 20.0 | 535 | 85 |

Measuring cylinders

made of polypropylene,
Class B, tall form

PREMIUM

- + hexagonal base
- + DIN 12681
- + ISO 6706
- + calibrated to contain "In"
- + embossed scale
- + highly transparent
- + thermal stress up to 80°C/176°F
- + food-safe acc. to (EU) No. 10/2011



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (± ml) | Height approx. (mm) |
|----------|---------------|---------------|------------------|---------------------|
| 42195012 | 10 | 0.2 | 0.2 | 145 |
| 42195018 | 25 | 0.5 | 0.5 | 170 |
| 42195024 | 50 | 1.0 | 1.0 | 200 |
| 42195030 | 100 | 1.0 | 1.0 | 250 |
| 42195048 | 250 | 2.0 | 2.0 | 315 |
| 42195060 | 500 | 5.0 | 5.0 | 360 |
| 42195066 | 1000 | 10.0 | 10.0 | 440 |
| 42195072 | 2000 | 20.0 | 20.0 | 535 |

Measuring cylinders

made of PMP,
Class A, tall form

PREMIUM

Class A measuring cylinders are supplied with a batch number and an ISO batch certificate per original packaging.

Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

- + hexagonal base
- + DIN 12681
- + ISO 6706
- + calibrated to contain "In"
- + moulded graduation
- + with division and ring marks
- + thermal stress up to +121 °C/+249.8 °F



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (± ml) | Height approx. (mm) |
|----------|---------------|---------------|------------------|---------------------|
| 42196012 | 10 | 0.2 | 0.2 | 145 |
| 42196024 | 50 | 1.0 | 1.0 | 200 |
| 42196030 | 100 | 1.0 | 1.0 | 250 |
| 42196048 | 250 | 2.0 | 2.0 | 315 |
| 42196060 | 500 | 5.0 | 5.0 | 360 |
| 42196066 | 1000 | 10.0 | 10.0 | 440 |
| 42196072 | 2000 | 20.0 | 20.0 | 535 |

Measuring cylinders

Class B
low form



- + round base
- + with spout
- + DIN ISO 4788
- + calibrated to contain "In"
- + amber graduation
- + tolerance 1,5 times the error limit of Class A

| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | Height (mm) | Material |
|----------|---------------|--------------|-----------------------|-------------|------------------------|
| 42205006 | 5 | 0.5 | 0.2 | 80 | Borosilicate glass 3.3 |
| 42205012 | 10 | 1 | 0.3 | 100 | AR-Glas® |
| 42205018 | 25 | 1 | 0.5 | 125 | Borosilicate glass 3.3 |
| 42205024 | 50 | 2 | 1.0 | 150 | AR-Glas® |
| 42205030 | 100 | 2 | 1.0 | 170 | Borosilicate glass 3.3 |
| 42205036 | 150 | 5 | 2.0 | 170 | AR-Glas® |
| 42205042 | 200 | 5 | 2.0 | 200 | AR-Glas® |
| 42205048 | 250 | 5 | 2.0 | 220 | AR-Glas® |
| 42205060 | 500 | 10 | 5.0 | 255 | Borosilicate glass 3.3 |
| 42205066 | 1000 | 20 | 10.0 | 295 | Borosilicate glass 3.3 |
| 42205072 | 2000 | 50 | 20.0 | 345 | Borosilicate glass 3.3 |

Measuring cylinders

Class B
tall form



- + round base
- + with spout
- + DIN ISO 4788
- + calibrated to contain "In"
- + amber graduation
- + tolerance 1,5 times the error limit of Class A

| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | Height (mm) | Material |
|----------|---------------|--------------|-----------------------|-------------|------------------------|
| 42200006 | 5 | 0.1 | 0.075 | 115 | AR-Glas® |
| 42200012 | 10 | 0.2 | 0.150 | 140 | AR-Glas® |
| 42200018 | 25 | 0.5 | 0.375 | 170 | AR-Glas® |
| 42200024 | 50 | 1.0 | 0.750 | 200 | AR-Glas® |
| 42200030 | 100 | 1.0 | 1.000 | 260 | Borosilicate glass 3.3 |
| 42200048 | 250 | 2.0 | 1.500 | 335 | AR-Glas® |
| 42200060 | 500 | 5.0 | 3.750 | 390 | Borosilicate glass 3.3 |
| 42200066 | 1000 | 10.0 | 10.00 | 470 | Borosilicate glass 3.3 |
| 42200072 | 2000 | 20.0 | 15.00 | 570 | Borosilicate glass 3.3 |

PREMIUM

Measuring cylinders

Class B
tall form

PREMIUM Boro 3.3

- + hexagonal base
- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + blue graduation
- + tolerance 1,5 times
the error limit of Class A



| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (± ml) | Height (mm) |
|----------|---------------|--------------|------------------|-------------|
| 42170006 | 5 | 0.1 | 0.075 | 115 |
| 42170012 | 10 | 0.2 | 0.150 | 145 |
| 42170018 | 25 | 0.5 | 0.375 | 205 |
| 42170024 | 50 | 1.0 | 0.750 | 195 |
| 42170030 | 100 | 1.0 | 0.750 | 262 |
| 42170048 | 250 | 2.0 | 1.500 | 310 |
| 42170060 | 500 | 5.0 | 3.750 | 360 |
| 42170066 | 1000 | 10.0 | 7.500 | 465 |
| 42170072 | 2000 | 20.0 | 15.00 | 500 |

Measuring cylinders

Class A
tall form

PREMIUM Boro 3.3

Class A measuring cylinders are supplied with a batch number or ISO batch certificate enclosed per packing unit. Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



- + hexagonal base
- + with spout
- + DE-M, DIN EN ISO 4788
- + calibrated to contain "In"
- + blue graduation
- + with ISO batch certificate

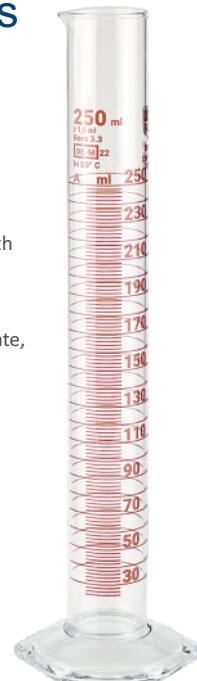
| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (± ml) |
|----------|---------------|--------------|------------------|
| 42172006 | 5 | 0.1 | 0.05 |
| 42172012 | 10 | 0.2 | 0.10 |
| 42172018 | 25 | 0.5 | 0.25 |
| 42172024 | 50 | 1.0 | 0.50 |
| 42172030 | 100 | 1.0 | 0.50 |
| 42172048 | 250 | 2.0 | 1.00 |
| 42172060 | 500 | 5.0 | 2.50 |
| 42172066 | 1000 | 10.0 | 5.00 |
| 42172072 | 2000 | 20.0 | 10.0 |

Measuring cylinders

Class A
tall form

PREMIUM Boro 3.3

Class A measuring cylinders are supplied with a batch number or ISO batch certificate enclosed per packing unit. Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.



- + hexagonal base
- + with spout
- + DE-M, DIN EN ISO 4788
- + calibrated to contain "In"
- + amber graduation
- + with ISO batch certificate

| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (± ml) |
|----------|---------------|--------------|------------------|
| 42182006 | 5 | 0.1 | 0.05 |
| 42182012 | 10 | 0.2 | 0.10 |
| 42182018 | 25 | 0.5 | 0.25 |
| 42182024 | 50 | 1.0 | 0.50 |
| 42182030 | 100 | 1.0 | 0.50 |
| 42182048 | 250 | 2.0 | 1.00 |
| 42182060 | 500 | 5.0 | 2.50 |
| 42182066 | 1000 | 10.0 | 5.00 |
| 42182072 | 2000 | 20.0 | 10.0 |

Measuring cylinders

Class B
tall form

- + hexagonal base
- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + amber graduation
- + tolerance 1,5 times
the error limit of Class A



| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | Height (mm) | Outer-Ø approx. (mm) |
|----------|---------------|--------------|-----------------------|-------------|----------------------|
| 42180006 | 5 | 0.1 | 0.075 | 115 | 13 |
| 42180012 | 10 | 0.2 | 0.150 | 145 | 14.5 |
| 42180018 | 25 | 0.5 | 0.375 | 205 | 18.5 |
| 42180024 | 50 | 1.0 | 0.750 | 195 | 25 |
| 42180030 | 100 | 1.0 | 0.750 | 262 | 29 |
| 42180048 | 250 | 2.0 | 1.500 | 310 | 39 |
| 42180060 | 500 | 5.0 | 3.750 | 360 | 54 |
| 42180066 | 1000 | 10.0 | 7.500 | 465 | 65 |
| 42180072 | 2000 | 20.0 | 15.00 | 500 | 85 |

Measuring cylinders

Class B
tall form

- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + amber graduation



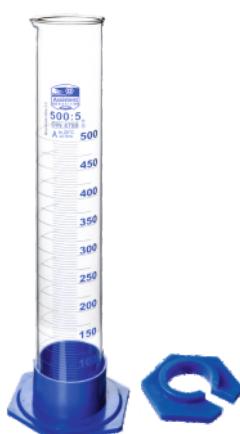
- + with interchangeable hexagonal base and
protecting ring made of PE-HD
- + base and protective ring resistant to alkalis and acids
- + temperature resistant up to +120 °C/+248 °F

| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | Height (mm) | Outer-Ø (mm) | Material |
|----------|---------------|--------------|-----------------------|-------------|--------------|------------------------|
| 42190012 | 10 | 0.2 | 0.150 | 130 | 14 | AR-Glas® |
| 42190018 | 25 | 0.5 | 0.375 | 195 | 19 | AR-Glas® |
| 42190024 | 50 | 1.0 | 0.750 | 210 | 24 | AR-Glas® |
| 42190030 | 100 | 1.0 | 0.750 | 250 | 28.5 | AR-Glas® |
| 42190048 | 250 | 2.0 | 1.500 | 330 | 38.5 | AR-Glas® |
| 42190060 | 500 | 5.0 | 3.750 | 360 | 52.8 | AR-Glas® |
| 42190066 | 1000 | 10.0 | 7.500 | 440 | 64 | Borosilicate glass 3.3 |

Measuring cylinders

Class B
tall form

- + with interchangeable hexagonal base
and protecting ring made of PE-HD
- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + blue graduation



| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | PU (pcs) |
|----------|---------------|--------------|-----------------------|----------|
| 52189012 | 10 | 0.2 | 0.2 | 10 |
| 52189018 | 25 | 0.5 | 0.5 | 10 |
| 52189024 | 50 | 1.0 | 1.0 | 10 |
| 52189030 | 100 | 1.0 | 1.0 | 10 |
| 52189048 | 250 | 2.0 | 2.0 | 10 |
| 52189060 | 500 | 5.0 | 5.0 | 2 |
| 52189066 | 1000 | 10.0 | 10.0 | 1 |

Measuring cylinders

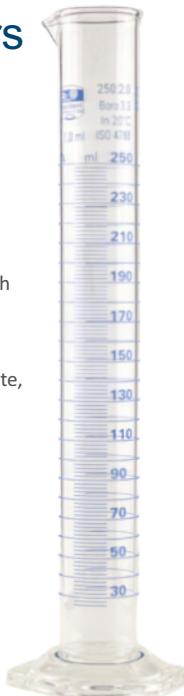
Class A
tall form

BASIC

Boro
3.3

Class A measuring cylinders are supplied with ISO batch certificate in original packaging. Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

- + hexagonal base
- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + blue graduation



Measuring cylinders

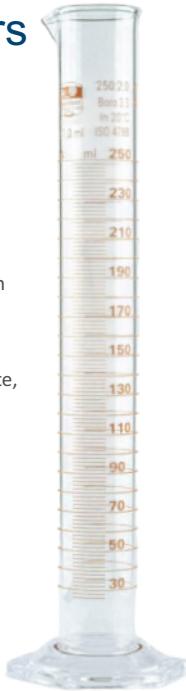
Class A
tall form

BASIC

Boro
3.3

Class A measuring cylinders are supplied with ISO batch certificate in original packaging. Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

- + hexagonal base
- + with spout
- + DIN EN ISO 4788
- + calibrated to contain "In"
- + amber graduation



| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | PU (pcs) |
|----------|---------------|--------------|-----------------------|----------|
| 52172006 | 5 | 0.1 | 0.05 | 2 |
| 52172012 | 10 | 0.2 | 0.10 | 2 |
| 52172018 | 25 | 0.5 | 0.25 | 2 |
| 52172024 | 50 | 1.0 | 0.50 | 2 |
| 52172030 | 100 | 1.0 | 0.50 | 2 |
| 52172048 | 250 | 2.0 | 1.00 | 2 |
| 52172060 | 500 | 5.0 | 2.50 | 2 |
| 52172066 | 1000 | 10.0 | 5.00 | 1 |
| 52172072 | 2000 | 20.0 | 10.0 | 1 |

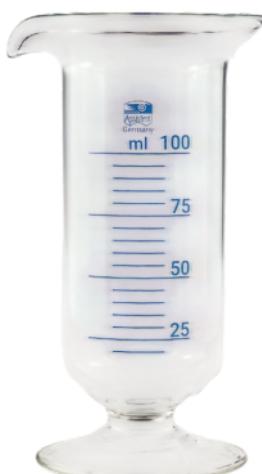
| Art.No. | Capacity (ml) | Divison (ml) | Tolerance (\pm ml) | PU (pcs) |
|----------|---------------|--------------|-----------------------|----------|
| 52182006 | 5 | 0.1 | 0.05 | 2 |
| 52182012 | 10 | 0.2 | 0.10 | 2 |
| 52182018 | 25 | 0.5 | 0.25 | 2 |
| 52182024 | 50 | 1.0 | 0.50 | 2 |
| 52182030 | 100 | 1.0 | 0.50 | 2 |
| 52182048 | 250 | 2.0 | 1.00 | 2 |
| 52182060 | 500 | 5.0 | 2.50 | 2 |
| 52182066 | 1000 | 10.0 | 5.00 | 1 |
| 52182072 | 2000 | 20.0 | 10.0 | 1 |

Measures

bell shape, clear glass

- + blue graduation
- + with round base

Measures are used to measure specific volumes of liquids or bulk materials. Can be used universally in the laboratory.



| Art.No. | Capacity (ml) | Divison (ml) |
|----------|---------------|--------------|
| 42260006 | 5 | 1 |
| 42260012 | 10 | 1 |
| 42260018 | 15 | 1 |
| 42260024 | 25 | 1 |
| 42260030 | 30 | 1 |
| 42260036 | 50 | 2 |
| 42260042 | 100 | 5 |
| 42260048 | 250 | 10 |

Pycnometers according to Gay-Lussac with ground-in stopper

- + calibrated
- + nominal capacity
printed on the bottom



Boro
3.3

| Art.No. | Capacity (cm ³) | Variant |
|----------|--------------------------------|---------------------------------|
| 42571008 | 5 | precisely adjusted |
| 42571016 | 10 | precisely adjusted |
| 42571024 | 25 | precisely adjusted |
| 42571032 | 50 | precisely adjusted |
| 42571040 | 100 | precisely adjusted |
| 42571308 | 5 | adjusted up to 3 decimal places |
| 42571316 | 10 | adjusted up to 3 decimal places |
| 42571324 | 25 | adjusted up to 3 decimal places |
| 42571332 | 50 | adjusted up to 3 decimal places |
| 42571340 | 100 | adjusted up to 3 decimal places |

Pycnometers according to Gay-Lussac with thermometer side capillary with ground-in cap

- + Thermometer with blue filling
- + from +10 °C to +35 °C: 0.2
- + according to DIN/ISO 3507



Boro
3.3

| Art.No. | Capacity (cm ³) | Variant | Thermometer socket size | Cap socket size |
|-----------|--------------------------------|---------------------------------|----------------------------|--------------------|
| 42572016 | 10 | precisely adjusted | 10/19 | 7,5 |
| 42572024 | 25 | precisely adjusted | 10/19 | 7,5 |
| 42572032 | 50 | precisely adjusted | 10/19 | 7,5 |
| 42572040 | 100 | precisely adjusted | 10/19 | 7,5 |
| 42572308* | 5 | adjusted up to 3 decimal places | 10/19 | 7,5 |
| 42572316* | 10 | adjusted up to 3 decimal places | 10/19 | 7,5 |
| 42572324* | 25 | adjusted up to 3 decimal places | 10/19 | 7,5 |
| 42572332* | 50 | adjusted up to 3 decimal places | 10/19 | 7,5 |
| 42572340* | 100 | adjusted up to 3 decimal places | 10/19 | 7,5 |

*Pycnometers are also available in other designs, prices on request

Pycnometers according to Gay-Lussac not calibrated



- + in compliance
with DIN/ISO 3507

Boro
3.3

| Art.No. | Capacity (cm ³) |
|----------|--------------------------------|
| 42570008 | 5 |
| 42570016 | 10 |
| 42570024 | 25 |
| 42570032 | 50 |
| 42570040 | 100 |

Pycnometers according to Gay-Lussac with Teflon stopper, precisely adjusted



- + DIN ISO 3507 and ISO 9001
- + with replaceable Teflon stopper

| Art.No. | Capacity (cm ³) | PU (pcs) |
|----------|--------------------------------|-------------|
| 52570316 | 10 | 1 |
| 52570324 | 25 | 1 |
| 52570332 | 50 | 1 |
| 52570340 | 100 | 1 |

Burettes in accordance with DIN EN ISO 385

Our burettes in compliance with DIN EN ISO 385 guarantee maximum precision and reliability in volumetric measurements.

Manufactured from high-quality, chemically resistant borosilicate glass 3.3, they meet all standards for accuracy, traceability, and calibration.

Perfect for precise titration work in daily laboratory use.

Accuracy classifications:

Class AS

- + for higher accuracy
- + short run-out time with waiting time
- + ring graduation
- + Boro 3.3
- + DE-M
- + with batch number
- + ISO batch certificate per packaging unit
- + calibrated to deliver (TD, Ex)

Class B

- + for lower accuracy
- + no waiting time
- + line graduation
- + calibrated to deliver (TD, Ex)

Stopcocks:

- + straight and laterally reinforced tap sleeves and connections
- + calibrated, faceted spouts
- + with interchangeable plugs
- + reliable stopcock locking device

Class AS burettes are also available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

The conformity label and batch number are printed on each burette. A batch certificate is enclosed with each original packing unit.

Burettes - clear glass

Class AS

Boro
3.3

- + DE-M
- + with straight glass stopcock
- + with ISO batch certificate
- + with Schellbach stripe
- + with ring division at the main points



Burettes - clear glass

Class AS

Boro
3.3

- + DE-M
- + with lateral glass stopcock
- + with ISO batch certificate
- + with Schellbach stripe
- + with ring division at the main points



| Art.No. | 40791715 | 40791722 | 40791750 |
|------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (± ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

| Art.No. | 40792715 | 40792722 | 40792750 |
|------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (± ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

Burettes - clear glass

Class AS

Boro
3.3

- + DE-M
- + with straight PTFE stopcock
- + with ISO batch certificate
- + with Schellbach stripe
- + with ring division at the main points



| Art.No. | 40793715 | 40793722 | 40793750 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

Burettes - clear glass

Class AS

Boro
3.3

- + DE-M
- + with PTFE stopcock
- + with ISO batch certificate
- + with Schellbach strip
- + with ring division at the main points



| Art.No. | 40795715 | 40795722 | 40795750 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

Burettes - clear glass

Class AS

Boro
3.3

- + DE-M
- + with straight NS stopcock
- + with ISO batch certificate
- + clear glass



| Art.No. | 40799715 | 40799722 | 40799750 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

Burettes - amber

Class AS

Boro
3.3

- + DE-M
- + with straight PTFE stopcock
- + with ISO batch certificate
- + amber glass



| Art.No. | 40813715 | 40813722 | 40813750 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | white | | |

Automatic burettes

clear glass, Class AS

- + DE-M
- + with lateral fine dosing valve tap with PTFE spindle
- + with intermediate tap with replaceable PTFE plug
- + with ISO batch certificate
- + with Schellbach stripe
- + blue graduated



Consisting of:

- automatic burette
- bottle, 2 liters, with standard ground 29/32
- rubber bulb

Boro
3.3

| Art.No. | 48415315 | 48415322 | 48415350 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | blue | | |

Automatic burettes

amberglass, Class AS

- + DE-M
- + with lateral fine dosing valve tap with PTFE spindle
- + with intermediate tap with replaceable PTFE plug
- + with ISO batch certificate
- + without Schellbach stripe
- + white graduated



Consisting of:

- automatic burette
- bottle, 2 liters, with standard ground 29/32
- rubber bulb

Boro
3.3

| Art.No. | 48455315 | 48455322 | 48455350 |
|-----------------------|----------|----------|----------|
| Capacity (ml) | 10 | 25 | 50 |
| Division (ml) | 0.020 | 0.050 | 0.100 |
| Tolerance (\pm ml) | 0.020 | 0.030 | 0.050 |
| Graduation | white | | |

Brushes

for burettes and tubes

- + excellent tool for cleaning burettes and tubes
- + Stem is manufactured from twisted steel wire



| Art.No. | Total length (mm) | Brush \varnothing (mm) | Brush length (mm) | Material |
|----------|-------------------|--------------------------|-------------------|------------------|
| 40830010 | 1000 | 25 | 100 | Natural bristles |

Suction bulbs

for titration apparatus



- + single: with 2 valves – made of soft PVC (cadmium-free)
- + double: with valve – made of soft PVC (cadmium-free),
bulb made of latex

| Art.No. | Tube outer \varnothing (mm) | Tube inner \varnothing (mm) | Tube length (mm) | Capacity (ml) | Variant | Colour |
|----------|-------------------------------|-------------------------------|------------------|---------------|---------|--------|
| 40850001 | 8 - 9 | 4 | 250 | 65 | single | red |
| 40850002 | 8 - 9 | 4 | 250 | 102 | double | red |

Schilling automatic burettes

Class B
Standard type

- + improved special pinch cock with titration screw for precise dosing
- + plastic burette clamp, chemical-resistant, allows discharge drop by drop by light finger pressure
- + storage bottles made of polyethylene, with plastic base; burette is filled by gently applying pressure to the bottle, with automatic zero-point adjustment
- + plastic tubing as rising pipe
- + upper part of the burette is closed, design like the Pellet titration burette; this prevents contamination
- + burette with Schellbach stripe and calibrated, faceted outlet tip



Consisting of:

- + discharge tubing, natural rubber
- + burette Art.No. 40821...
- + bottle made of PE-LD
- + filling tubing made of PVC
- + clamp
- + base Art.No. 40823001 or 40823002 made of PE-HD

| Art.No. | Capacity (ml) | Bottle capacity (ml) | Division (ml) | Tolerance (\pm ml) | Graduation |
|----------|---------------|----------------------|---------------|-----------------------|------------|
| 40820005 | 5 | 500 | 0.05 | 0.05 | amber |
| 40820010 | 10 | 500 | 0.05 | 0.05 | amber |
| 40820015 | 15 | 500 | 0.10 | 0.10 | amber |
| 40820025 | 25 | 1000 | 0.10 | 0.10 | amber |
| 40820050 | 50 | 1000 | 0.10 | 0.10 | amber |

Spare parts & accessories

Plastic base
for Schilling burettes



| Art.No. | Material | suitable for |
|----------|----------------------|---------------------|
| 40823001 | Polyethylene (PE-HD) | for bottles of 0.5l |
| 40823002 | | for bottles of 1l |

Spare burettes

for automatic burettes Schilling
Class B, with Schellbach stripe

Boro 3.3



| Art.No. | Capacity (ml) | Division (ml) | Tolerance (\pm ml) | Graduation |
|----------|---------------|---------------|-----------------------|------------|
| 40821005 | 5 | 0.05 | 0.05 | amber |
| 40821010 | 10 | 0.05 | 0.05 | amber |
| 40821015 | 15 | 0.10 | 0.10 | amber |
| 40821025 | 25 | 0.10 | 0.10 | amber |
| 40821050 | 50 | 0.10 | 0.10 | amber |

Bossheads
double



| Art.No. | Clamping range (mm) |
|----------|---------------------|
| 40862010 | 16 |

- + for rods up to 16 mm Ø
- + brass screws
- + nickel-plated, powder-coated
- + made of die-cast zinc

Universal bossheads
double, rotatable



| Art.No. | Clamping range (mm) |
|----------|---------------------|
| 40863010 | 16 |

- + for rods up to 16 mm Ø
- + brass screws
- + nickel-plated, powder-coated
- + made of die-cast zinc

Burette tips

with rubber tubing,
for burettes with tubing connection



| Art.No. | Length (mm) | Material |
|----------|-------------|-----------------------|
| 40780009 | 60 | AR-Glas® (soda glass) |

Burette stands

with M10 thread
(stainless steel thread)



| Art.No. | Base dimensions (mm) | Rod (mm) |
|----------|----------------------|-------------|
| 40860010 | 175 x 100 | 450 x 10 Ø |
| 40861010 | 210 x 130 | 750 x 12 Ø |
| 40861020 | 210 x 130 | 1000 x 12 Ø |

Clamps made of die-cast zinc, without bosshead, with round jaws and cork lining



| Art.No. | Clamping range (mm) | Handle (mm) | Total length (mm) |
|----------|---------------------|-------------|-------------------|
| 40865010 | 12-25 | 150 x 12 Ø | 240 |
| 40865040 | 20-40 | 150 x 12 Ø | 240 |
| 40866010 | 38-60 | 150 x 12 Ø | 260 |

Ring with bosshead

- + for rods up to 16 mm Ø
- + three-point support
- + nickel-plated brass screw, powder-coated
- + made of die-cast zinc



| Art.No. | Inner Ø (mm) | Outer Ø (mm) | Material |
|----------|--------------|--------------|----------------|
| 40869007 | 50 | 70 | Malleable iron |
| 40869010 | 80 | 100 | |
| 40869013 | 110 | 130 | |

Burette clamps

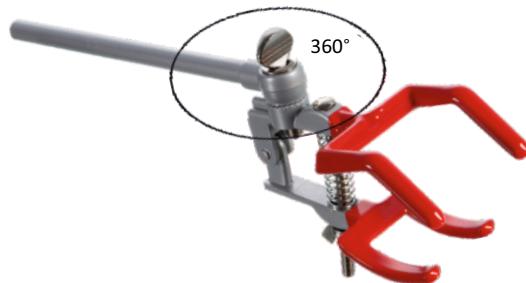
- + with PVC coating
- + for rods up to 13 mm Ø
- + with bosshead

single: for one burette
double: for two burettes



| Art.No. | Clamping range (mm) | Variant | Material |
|----------|---------------------|---------|---------------|
| 40870010 | 0-20 | single | Die-cast zinc |
| 40871010 | 0-20 | double | |

Condenser clamps without bosshead, revolving 360°



| Art.Nr. | Clamping range (mm) | Material |
|----------|---------------------|---------------|
| 40875010 | 30-80 | Die-cast zinc |

Pipettes according to DIN EN ISO 835 or 648

Our pipettes in compliance with DIN EN ISO 835 and DIN EN ISO 648 ensure maximum accuracy and reproducibility in all volumetric operations. Manufactured from high-quality, chemically resistant glass, they meet all standards for dimensional accuracy, calibration, and ease of use. Ideal for precise dispensing and analytical laboratory applications..

Accuracy classifications:

Class AS

- + for higher accuracy
- + short run-out time with fixed waiting time of 5 seconds
- + measuring pipettes with ring graduation
- + soda-lime glass
- + DE-M
- + with batch number
- + ISO batch certificate per packaging unit
- + calibrated to expiry (TD, Ex)

Class AS measuring pipettes and volumetric pipettes are also available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.

Please indicate when ordering.

Class B

- + for lower accuracy
- + no waiting time
- + measuring pipettes with line graduation
- + soda-lime glass
- + calibrated to expiry „Ex“

Measuring pipettes Type 3 clear glass, Class AS, total delivery

- + DIN EN ISO 835
- + Type 3 (zero on top)
- + amber graduated
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass



| Art.No. | Division | Tolerance (\pm ml) |
|-----------|--------------|-----------------------|
| 42541016 | 0.5ml : 0.01 | 0.005 |
| 42541020 | 1ml : 0.01 | 0.007 |
| 42541036 | 2ml : 0.02 | 0.010 |
| 42541040 | 5ml : 0.10 | 0.030 |
| 42541048 | 10ml : 0.10 | 0.050 |
| 42541052 | 20ml : 0.10 | 0.100 |
| 42541056 | 25ml : 0.10 | 0.100 |
| 42541060* | 50ml : 0.20 | 0.200 |

*in addition to the norm

Measuring pipettes Type 3 clear glass, Class AS, total delivery

- + DIN EN ISO 835
- + Type 3 (zero on top)
- + blue graduated
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass



| Art.No. | Division | Tolerance (\pm ml) |
|-----------|--------------|-----------------------|
| 42544016 | 0.5ml : 0.01 | 0.005 |
| 42544020 | 1ml : 0.01 | 0.007 |
| 42544024 | 1ml : 0.01 | 0.007 |
| 42544036 | 2ml : 0.02 | 0.010 |
| 42544040 | 5ml : 0.10 | 0.030 |
| 42544048 | 10ml : 0.10 | 0.050 |
| 42544052 | 20ml : 0.10 | 0.100 |
| 42544056 | 25ml : 0.10 | 0.100 |
| 42544060* | 50ml : 0.20 | 0.200 |

*in addition to the norm

Safety measuring pipettes with ground-in piston

Class B



- + divided up to tip
- + standard type
- + zero on top
- + tolerance 1.5 times of the official tolerance of class AS
- + amber graduation
- + calibrated to deliver (TD,Ex)
- + calibrated, fire-polished, solid tip
- + packing: each in a solid plastic tube

| Art.No. | Division | Material |
|----------|-------------|----------|
| 42548020 | 1ml : 0.01 | |
| 42548036 | 2ml : 0.01 | |
| 42548044 | 5ml : 0.01 | |
| 42548048 | 10ml : 0.02 | |
| 42548052 | 20ml : 0.10 | |
| 42548056 | 25ml : 0.10 | |

Volumetric pipettes Class AS



- + DIN EN ISO 648
- + with 1 mark
- + blue graduation
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass

| Art.No. | Capacity (ml) | Tolerance (\pm ml) |
|----------|---------------|-----------------------|
| 42554004 | 0.5 | 0.005 |
| 42554008 | 1 | 0.008 |
| 42554016 | 2 | 0.010 |
| 42554020 | 2.5 | 0.010 |
| 42554024 | 3 | 0.010 |
| 42554028 | 4 | 0.015 |
| 42554032 | 5 | 0.015 |
| 42554044 | 8 | 0.020 |
| 42554048 | 9 | 0.020 |
| 42554052 | 10 | 0.020 |
| 42554060 | 15 | 0.030 |
| 42554064 | 20 | 0.030 |
| 42554068 | 25 | 0.030 |
| 42554072 | 30 | 0.050 |
| 42554080 | 50 | 0.050 |
| 42554084 | 100 | 0.080 |

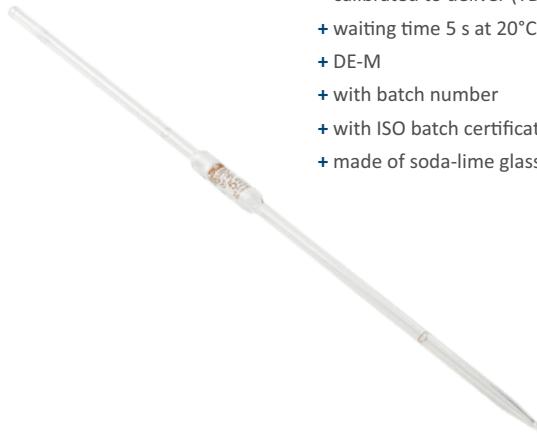
Volumetric pipettes Class AS



- + DIN EN ISO 648
- + with 1 mark
- + amber graduation
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass

| Art.No. | Capacity (ml) | Tolerance (\pm ml) |
|----------|---------------|-----------------------|
| 42556004 | 0,5 | 0.005 |
| 42556008 | 1 | 0.008 |
| 42556016 | 2 | 0.010 |
| 42556020 | 2,5 | 0.010 |
| 42556024 | 3 | 0.010 |
| 42556028 | 4 | 0.015 |
| 42556032 | 5 | 0.015 |
| 42556044 | 8 | 0.020 |
| 42556048 | 9 | 0.020 |
| 42556052 | 10 | 0.020 |
| 42556060 | 15 | 0.030 |
| 42556064 | 20 | 0.030 |
| 42556068 | 25 | 0.030 |
| 42556072 | 30 | 0.050 |
| 42556080 | 50 | 0.050 |
| 42556084 | 100 | 0.080 |

Volumetric pipettes Class AS



- + DIN EN ISO 648
- + with 2 marks
- + amber graduation
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass

| Art.No. | Capacity (ml) | Tolerance (\pm ml) |
|----------|---------------|-----------------------|
| 42557004 | 0.5 | 0.005 |
| 42557008 | 1 | 0.008 |
| 42557016 | 2 | 0.010 |
| 42557020 | 2.5 | 0.010 |
| 42557024 | 3 | 0.010 |
| 42557028 | 4 | 0.015 |
| 42557032 | 5 | 0.015 |
| 42557044 | 8 | 0.020 |
| 42557056 | 10 | 0.020 |
| 42557064 | 20 | 0.030 |
| 42557068 | 25 | 0.030 |
| 42557080 | 50 | 0.050 |

Volumetric pipettes Class AS



- + DIN EN ISO 648
- + with 2 marks
- + blue graduated
- + calibrated to deliver (TD,Ex)
- + waiting time 5 s at 20°C
- + DE-M
- + with batch number
- + with ISO batch certificate
- + made of soda-lime glass

| Art.No. | Capacity (ml) | Tolerance (\pm ml) |
|----------|---------------|-----------------------|
| 42558004 | 0.5 | 0.005 |
| 42558008 | 1 | 0.008 |
| 42558016 | 2 | 0.010 |
| 42558020 | 2.5 | 0.010 |
| 42558024 | 3 | 0.010 |
| 42558028 | 4 | 0.015 |
| 42558032 | 5 | 0.015 |
| 42558040 | 7 | 0.020 |
| 42558044 | 8 | 0.020 |
| 42558056 | 10 | 0.020 |
| 42558064 | 20 | 0.030 |
| 42558068 | 25 | 0.030 |
| 42558080 | 50 | 0.050 |

Glass pipettes without graduation, clear glass



| Art.No. | Length (mm) | Capacity (ml) |
|-------------------|-----------------|---------------|
| 42569012 | 120 | 1.5 |
| 42569015 | 150 | 2.0 |
| 42569020 | 200 | 2.5 |
| 42569025 | 250 | 3.0 |
| Outer ϕ (mm) | Wall (mm) | Material |
| 6.5 \pm 0.2 | 0.95 \pm 0.05 | AR-Glas® |

Demeter pipettes (Diluting pipettes)

- + for dairy farming
- + with ring marks
- + calibrated for blowing out up to 1 ml
- + other marks calibrated to deliver (TD,Ex)
- + DIN 12838 and 12839
- + made of soda-lime glass
- + fused amber graduation
- + non steril

| Art.No. | Marks at | Length (mm) | Tolerance (\pm ml) |
|----------|-------------------|-------------|-----------------------|
| 42574001 | 1.0/1.1ml | 250 | 0.5/0.005 |
| 42574002 | 0.5/1.0/1.1ml | 250 | 0.05/0.05/0.005 |
| 42574004 | 1.0/2.0/2.1/2.2ml | 250 | 0.05/0.05/0.005 |



Pipette brushes supplied as 4 sizes set, galvanised twist wire



| | |
|-----------------------------|--------------|
| Art.No. | 42588010 |
| for measuring pipettes | 1 - 10 ml |
| Material (Brush 1 and 2ml) | Goat hair |
| Material (Brush 5 and 10ml) | Dun bristles |

Pipette brushes for measuring pipettes, individual

- + galvanised twisted wire
- + wire with eyelet

| Art.No. | Total length (mm) | Brush Ø (mm) | Brush length (mm) | Twisted wire (mm) | Bristles | Variant | Size suitable for |
|-----------|-------------------|--------------|-------------------|-------------------|----------------|----------|-------------------|
| 42589001* | 410 | 4 | 70 | 0.8 | Goat hair | straight | 1 ml |
| 42589002* | 405 | 4.5 | 75 | 1.0 | Goat hair | straight | 2 ml |
| 42589005* | 400 | 8 | 75 | 1.0 | Pig bristles | straight | 5 ml |
| 42589010* | 400 | 12 | 100 | 1.4 | Pig bristles | straight | 10 ml |
| 42589030 | 250 | 8 | 70 | 1.0 | Pig bristles | bent | |
| 42589031 | 250 | 15 | 70 | 1.0 | Pig bristles | bent | |
| 42589032 | 300 | 11 | 65 | 1.4 | Nylon bristles | bent | |
| 42589033 | 300 | 30 | 90 | 1.6 | Pig bristles | bent | |
| 42589034 | 400 | 4 | 80 | 0.8 | Goat hair | straight | |
| 42589035 | 400 | 3 | 90 | 0.8 | Goat hair | straight | |
| 42589036 | 850 | 8 | 110 | 1.2 | Pig bristles | straight | |

*all 4 sizes available as set under Art.No. 42588010



Pipette stands made of Plexiglas® sloping, for measuring pipettes and volumetric pipettes

| Art.No. | Dimensions (mm) | Capacity |
|----------|-----------------|----------|
| 42590006 | 188 x 123 x 181 | 6 |
| 42590012 | 350 x 123 x 190 | 12 |

- + for holding glass pipettes horizontally
- + 6 or 12 recesses of 17.5 mm



Pipette fillers standard model

- + pipetting aid for bulb and graduated pipettes
- + three operating points

Density: $1.08 \pm 0.02 \text{ g/cm}^3$

Hardness: $40 \pm 5 \text{ Shore A}$

Tensile strength: $19 \text{ Pa (N/mm}^2)$

Elongation at break: > 700 %

Tear strength: > 9 N/mm



| Art.No. | for pipettes up to | Material | Valves | Colour |
|----------|--------------------|----------------|--------|--------|
| 42580010 | 100 ml/10 mm Ø | Natural rubber | 2 | red |

Pipette fillers model „Flip“

- + one handed design
- + two operating points
- + evacuate via the new automatic valve
- + ability to clean inside of bulb by removing patented valve

Density: $1.08 \pm 0.02 \text{ g/cm}^3$

Hardness: $40 \pm 5 \text{ Shore A}$

Tensile strength: $19 \text{ Pa (N/mm}^2)$

Elongation at break: > 700 %

Tear strength: > 9 N/mm



| Art.No. | for pipettes up to | Material | Valves | Colour |
|----------|--------------------|----------------|--------|--------|
| 42581020 | 100 ml/8 mm Ø | Natural rubber | 2 | red |

Pipette fillers universal model



- + three operating points
- + emptying via the new automatic valve
- + effective internal cleaning thanks to removable automatic valve

| Art.No. | for pipettes up to | Material | Valves | Colour |
|----------|--------------------|----------------|--------|--------|
| 42581010 | 100 ml/10 mm Ø | Natural rubber | 3 | red |

accu-jet S Pipettor

for glass and plastic pipettes from 0.1 to 200 ml



- + two-coloured battery charge indicator
- + battery with intelligent charging electronics
- + charger Europe 100-240 VAC 50/60 Hz
- + ergonomic handle and balanced weight distribution
- + fast: a 25 ml pipette is filled in 3 seconds at maximum motor speed
- + anthracite colour



With one hand, you can sensitively control the pipetting speed from fast, powerful aspiration to exact meniscus adjustment and precise dispensing of even small volumes.

You can regulate the motor speed without having to reposition your hand in order to work particularly powerfully or sensitively, and switch between free flow (with pipettes calibrated to 'EX') or fast blowing out of the liquid with motor power.

You can typically work for 8 hours or more on a single full charge (continuous aspiration and dispensing with a 10 ml pipette), and you can continue working seamlessly even when the battery is empty by connecting the charging cable.

| Art.No. | Storage temperature | Dimensions (mm) | Battery | Charger | Material | Weight (g) |
|----------|---------------------------------------|-----------------|-----------------------------|------------------------------|----------|------------|
| 42577010 | -20°C up to +50°C / -4°F up to +122°F | 139 x 230 x 62 | Akku-Pack NiMH 2,4V, 730mAh | Input: 100-240 VAC, 50/60 Hz | PC/PBT | 485.1 |

macro-pipettor with membrane filter and spare parts

for pipettes from 0.1 ml up to 100 ml



- + standard membrane filter against penetration of liquids
- + adapter can be steam sterilised
- up to +121°C/+249.8 °F / 2 bar according to DIN
- + macro pipette controller weighs only 95 g
- + 1 replacement filter is included in the scope of delivery, which makes work easier, especially for serial pipetting

Suction bellow:

Simply press together before pipetting; there is no complex valve system to operate. Pipetting lever: There is just the one pipetting lever to operate for filling, adjusting volume and delivering.

Pipette adapter: It can be unscrewed and is provided with a built-in, hydrophobic membrane filter. For pipettes from 0.1 ml up to 100 ml.

Blow-out button:

For blowing out the residual liquid from blow-out pipettes.

Aspiration:

First squeeze the suction bellows. This is sufficient to aspirate approx. 50 ml in one go. To aspirate, move the pipetting lever upwards.

Adjust the volume:

Draw up the pipetting liquid to above the desired mark, then slowly move the pipetting lever downwards. The liquid level lowers. The meniscus stops when the lever is released.

Dispense:

Press the pipetting lever all the way down. The liquid drains off. The valve system is designed in such a way that the volume accuracy is not impaired if the liquid drains freely.

Blowing out:

When using blow-out pipettes, allow the liquid to drain until the meniscus in the jet. Then give the rubber blowball a short squeeze.

| Art.No. | Variant | Material |
|----------|--|----------------------------------|
| 42576001 | spare membrane filter, 3µm, unsterile, hydrophobic | Polypropylene and PTFE |
| 42576002 | Adapter, approx. 44mm long | Silicone |
| 42576003 | Spare suction bellow with screw connection | Silicone and polypropylene |
| 42576004 | Valve assembly | Polypropylene, PTFE and silicone |
| 42576005 | Adapter housing, approx. 49mm long | Polypropylene |
| 42576010 | macro-pipettors with filter | complete |

Certificates and Quality Documentation

Documented quality in accordance with international standards

Our products are subject to strict quality controls and are manufactured and tested in accordance with nationally and internationally recognized standards.

The corresponding certificates confirm compliance with all relevant technical specifications and regulatory requirements.

Class A/AS volumetric measuring instruments are supplied in conformity with the German Weights and Measures Act. They are marked with DE-M and are supplied as standard with one batch certificate per packaging unit.

Additional certificates:

Upon request, Class A/AS volumetric glassware can be supplied with an individual certificate, a USP batch certificate, or a USP individual certificate.

Certificate of performance with information of the mean value of the production lot

A batch certificate documents the quality testing of an entire production batch. It confirms that all products within the batch were manufactured and tested according to the specified standards. All products in the batch are based on the same test results and quality data. This certificate is ideal when products originate from a uniform production batch and the quality requirements need to be demonstrated at the batch level.

Art.No.

49201010

Individual certificate of performance with information of the actually determined volume of the instrument

An individual certificate certifies the quality and test results of a single product or component. Each item is tested and certified individually to ensure maximum precision and traceability. This type of certificate is preferred when special documentation or traceability requirements exist for each individual product — for example, in safety-critical or specialized applications.

Art.No.

49200010

DIN EN ISO 9001 CERTIFIED

**QUALITÄTSZERTIFIKAT - CERTIFICATE OF PERFORMANCE
CERTIFICAT DE QUALITÉ - CERTIFICADO DE CALIDAD**

CHARGENPRÜFUNG - BATCH QUALITY CONTROL

| Messzylinder Measuring cylinders | Artikelnummer Product code: 42182048 | Chargennr. Batch no.: E4427 | 03.11.2025 |
|--|---|--|------------|
| DIN EN ISO 4788 - Klasse A / Class A | DE-M | | |
| Nennvolumen/Nominal Volume/ Volume nominal/Volumen nominal: | 250 : 2 ml | Mittelwert/ Mean value/ Valeur moyenne/ Valor medio: | 249,931 ml |
| Toleranz/ Tolerance/ Tolérance/ Tolerancia: | 1,000 ml | Standardabweichung Standard deviation/Ecart type/ Desviación standard: | 0,42910 ml |

- Der angegebene Wert ist korrigiert, d. h. die ursprünglichen Meßbedingungen sind umgerechnet auf eine Bezugstemperatur von 20°C am Gerät, Umgebung und Prüflüssigkeit. Die verwendeten Prüfmittel sind rückführbar auf nationale Normale (Die Prüfung erfolgte gemäß ISO4787).
- The indicated value is adjusted acc.to the original measuring conditions referring to a temperature of 20°C at the instrument, the liquid (distilled water) and the ambience. The standards used for the measurements can be traced to national standards. The test was effected acc. to ISO 4787.
- La valeur indiquée est corrigée, c'est-à-dire que les conditions de mesure d'origine sont ramenées à une température de référence de 20°C de l'appareil, de l'environnement et du fluide d'essai. Les standards normalisés nationaux peuvent servir de références pour l'appareil de mesure utilisé (les essais se sont déroulés selon ISO4787).
- El valor indicado está corregido, es decir, las condiciones de comprobación originales se han convertido a la temperatura de referencia de 20°C del aparato, del ambiente y el líquido de comprobación. Los estándares nacionales pueden servir de referencia para el aparato de medición empleado (la prueba se lleva a cabo de acuerdo a ISO4787).

Prüfer/Tester/Vérificateur/Comprobador:

Glaswarenfabrik Karl Hecht GmbH & Co KG
Stettener Straße 22-24 | 97647 Sondheim/Rhön | Germany

LABORATORY EQUIPMENT.

Laboratory Equipment

Watch glasses, dishes, aid & weighing bottles

Watch glasses made of soda-lime glass



- + polished rim
- + ground edges
- + DIN 12341
- + wall thickness 1.9 mm
- + packed of 10 pieces

| Art.No. | Diameter (mm) |
|-----------|---------------|
| 40010004 | 40 |
| 40010005 | 50 |
| 40010006 | 60 |
| 40010007 | 70 |
| 40010008 | 80 |
| 40010009 | 90 |
| 40010010 | 100 |
| 40010011 | 110 |
| 40010012 | 120 |
| 40010014 | 140 |
| 40010015 | 150 |
| 40010016 | 160 |
| 40010018 | 180 |
| 40010020* | 200 |

*2.9 mm wall thickness

Watch glasses



BASIC Boro 3.3

- + fire polished rim

| Art.No. | Diameter (mm) | PU (pcs) |
|----------|---------------|----------|
| 50016005 | 50 | 10 |
| 50016006 | 60 | 10 |
| 50016007 | 70 | 10 |
| 50016008 | 80 | 10 |
| 50016010 | 100 | 10 |
| 50016012 | 120 | 10 |
| 50016015 | 150 | 10 |
| 50016020 | 200 | 10 |

Evaporating dishes

BASIC

Boro 3.3



- + DIN 12336
- + with spout
- + beaded rim
- + highly resistant to chemicals and thermal shocks
- + transparent
- + autoclavable: can tolerate repeated sterilisation (wet or dry)
- + useful for routine tasks

| Art.No. | Capacity (ml) | Height x upper Ø (mm) | PU (pcs) |
|----------|---------------|-----------------------|----------|
| 51968050 | 15 | 25 x 50 Ø | 10 |
| 51968060 | 45 | 30 x 60 Ø | 10 |
| 51968070 | 60 | 35 x 70 Ø | 10 |
| 51968080 | 90 | 45 x 80 Ø | 10 |
| 51968095 | 170 | 55 x 95 Ø | 10 |
| 51968105 | 290 | 55 x 105 Ø | 10 |
| 51968115 | 320 | 65 x 115 Ø | 10 |
| 51968140 | 600 | 80 x 140 Ø | 10 |
| 51968150 | 800 | 80 x 150 Ø | 1 |
| 51968190 | 1500 | 100 x 190 Ø | 1 |
| 51968200 | 1800 | 90 x 200 Ø | 1 |
| 51968230 | 2500 | 130 x 230 Ø | 1 |

Crystallizing dishes

BASIC

Boro 3.3



- + DIN 12338
- + with spout
- + fire-polished rims
- + large labelling field for easy marking
- + highly resistant to chemicals and thermal shocks

| Art.No. | Capacity (ml) | Height x upper Ø (mm) | PU (pcs) |
|----------|---------------|-----------------------|----------|
| 51969040 | 25 | 25 x 40 Ø | 10 |
| 51969050 | 50 | 30 x 50 Ø | 10 |
| 51969060 | 60 | 35 x 60 Ø | 6 |
| 51969070 | 100 | 40 x 70 Ø | 6 |
| 51969080 | 150 | 45 x 80 Ø | 6 |
| 51969095 | 300 | 55 x 95 Ø | 6 |
| 51969098 | 900 | 75 x 140 Ø | 1 |

Weighing bottles tall form

+ with interchangeable ground joint cover

+ with frosted label

+ used for precise weighing of solids

PREMIUM

Boro 3.3



| Art.No. | Capacity (ml) | Outer Ø (mm) | Height (mm) | NS short grind |
|----------|---------------|--------------|-------------|----------------|
| 44250001 | 10 | 25 | 40 | 24/12 |
| 44250002 | 20 | 30 | 50 | 29/12 |
| 44250003 | 40 | 40 | 50 | 40/12 |
| 44250004 | 45 | 35 | 70 | 34/12 |
| 44250005 | 70 | 40 | 80 | 40/12 |
| 44250006 | 110 | 50 | 80 | 50/12 |

Weighing bottles tall form

BASIC Boro 3.3

- + with interchangeable ground joint lid
- + with frosted label



| Art.No. | Height x outer Ø approx. (mm) | PU (pcs) |
|----------|----------------------------------|-------------|
| 54250001 | 40 x 25 Ø | 10 |
| 54250002 | 50 x 25 Ø | 10 |
| 54250003 | 50 x 30 Ø | 10 |
| 54250004 | 65 x 30 Ø | 10 |
| 54250005 | 70 x 35 Ø | 10 |
| 54250006 | 50 x 40 Ø | 10 |
| 54250007 | 80 x 40 Ø | 10 |
| 54250008 | 90 x 40 Ø | 10 |
| 54250009 | 80 x 50 Ø | 10 |
| 54250010 | 100 x 50 Ø | 10 |

Weighing bottles low form

PREMIUM Boro 3.3

- + with interchangeable ground joint lid
- + with frosted label



| Art.No. | Capacity (ml) | Outer Ø (mm) | Height (mm) | NS short grind |
|----------|------------------|-----------------|----------------|-------------------|
| 44251010 | 10 | 30 | 30 | 29/12 |
| 44251011 | 15 | 35 | 30 | 34/12 |
| 44251012 | 20 | 40 | 25 | 40/12 |
| 44251013 | 30 | 50 | 30 | 50/12 |
| 44251014 | 45 | 60 | 30 | 50/12 |
| 44251016 | 80 | 80 | 30 | 80/12 |

Weighing bottles low form

BASIC Boro 3.3

- + with interchangeable ground joint lid
- + with frosted label



| Art.No. | Height x outer Ø approx. (mm) | PU (pcs) |
|----------|----------------------------------|-------------|
| 54251011 | 30 x 35 Ø | 10 |
| 54251012 | 25 x 40 Ø | 10 |
| 54251013 | 30 x 40 Ø | 10 |
| 54251014 | 25 x 50 Ø | 10 |
| 54251015 | 30 x 50 Ø | 10 |
| 54251016 | 50 x 50 Ø | 10 |
| 54251017 | 30 x 60 Ø | 10 |
| 54251018 | 30 x 80 Ø | 10 |

Weighing scoops

BASIC Boro 3.3

- + provided with open tubular arm
- + used for weighing small quantities of dyes and powders



| Art.No. | Capacity (ml) | Length approx. (mm) | PU (pcs) |
|----------|------------------|------------------------|-------------|
| 54248001 | 1 | 31 | 10 |
| 54248002 | 2 | 40 | 10 |
| 54248003 | 3 | 72 | 10 |
| 54248006 | 6 | 82 | 10 |
| 54248010 | 10 | 105 | 10 |

Weighing boats



| Art.No. | Capacity (ml) | Total length (mm) | Stem length (mm) | Stem wall (mm) | Stem Ø (mm) | Tube wall (mm) | Tube Ø (mm) |
|----------|------------------|----------------------|---------------------|-------------------|----------------|-------------------|----------------|
| 44248003 | 3 | 70 | 20 | 1.0 | 8 | 1.8 | 22 |
| 44248006 | 6 | 80 | 20 | 1.0 | 8 | 1.4 | 28 |
| 44248010 | 10 | 105 | 31 | 1.0 | 8 | 1.4 | 32 |

Measuring jugs with embossed scale, made of polypropylene

- + highly transparent
- + stable, easy grip handle
- + with functional spout, so no dripping
- + microwave-safe
- + autoclavable at +121°C/+257°F (2 bar)
in accordance with DIN EN 285
- + max. temperature at +125°C/+249.8°F
- + suitable for contact with food

(EU) No. 10/2011



| Art.No. | Capacity (ml) | Division (ml) | Dimensions (mm) |
|----------|---------------|---------------|-----------------|
| 42284024 | 50 | 2 | 70 x 40 Ø |
| 42284030 | 100 | 2 | 80 x 50 Ø |
| 42284048 | 250 | 5 | 120 x 74 Ø |
| 42284060 | 500 | 10 | 140 x 95 Ø |
| 42284066 | 1000 | 10 | 181 x 117 Ø |
| 42284072 | 2000 | 20 | 213 x 152 Ø |
| 42284078 | 3000 | 50 | 242 x 172 Ø |
| 42284084 | 5000 | 100 | 270 x 204 Ø |

Measuring jugs with scale, made of polypropylene

- + highly transparent
- + stable, easy grip handle
- + with functional spout, so no dripping
- + blue, raised scale
- + autoclavable at +121°C/+249.8°F (2 bar)
- + to preserve the marking, do not clean
at temperatures exceeding 60°C/140°F
- + suitable for contact with food

(EU) No. 10/2011

+ DIN EN 285



| Art.No. | Capacity (ml) | Division (ml) | Dimensions (mm) |
|----------|---------------|---------------|-----------------|
| 42283024 | 50 | 2 | 61 x 50 Ø |
| 42283030 | 100 | 2 | 80 x 50 Ø |
| 42283048 | 250 | 5 | 120 x 74 Ø |
| 42283060 | 500 | 10 | 140 x 92 Ø |
| 42283066 | 1000 | 10 | 181 x 117 Ø |
| 42283072 | 2000 | 20 | 213 x 152 Ø |
| 42283078 | 3000 | 50 | 242 x 172 Ø |
| 42283084 | 5000 | 100 | 270 x 204 Ø |

Measuring jugs with scale, made of glass

- + stable, easy grip handle
- + with functional spout, so no dripping
- + blue, raised scale
- + made of soda-lime glass



| Art.No. | Capacity (ml) |
|---------------|---------------|
| 42281066 | 1000 |
| Division (ml) | Diameter (mm) |
| 100 | 90 |

Griffin beakers with printed blue scale, low form, made of polypropylene

- + highly transparent
- + ISO 7056
- + antistatic
- + with rim and spout
- + maximum temperature resistance
+135 °C/+275 °F
- + suitable for steam sterilisation
at +121 °C/+249.8 °F.



| Art.No. | Capacity (ml) | Division (ml) | Dimensions (mm) |
|----------|---------------|---------------|-----------------|
| 41935006 | 10 | 2 | 36 x 28 Ø |
| 41935012 | 25 | 1 | 49 x 34 Ø |
| 41935018 | 50 | 5 | 60 x 43 Ø |
| 41935024 | 100 | 5 | 72 x 51 Ø |
| 41935030 | 150 | 5 | 82 x 58 Ø |
| 41935036 | 250 | 5 | 95 x 70 Ø |
| 41935042 | 400 | 10 | 110 x 80 Ø |
| 41935048 | 600 | 25 | 125 x 93 Ø |
| 41935060 | 1000 | 50 | 148 x 108 Ø |
| 41935066 | 2000 | 100 | 188 x 140 Ø |
| 41935072 | 3000 | 200 | 212 x 170 Ø |
| 41935078 | 5000 | 500 | 247 x 203 Ø |

Griffin beakers with printed red scale, low form, made of polymethylpentene

- + highly transparent
- + ISO 7056
- + antistatic
- + with rim and spout
- + autoclavable at +121 °C/+249.8 °F (2 bar)
- + maximum temperature resistance
+180 °C/+356 °F
- + suitable for universal use in laboratories,
in industry, etc.



| Art.No. | Capacity (ml) | Division (ml) | Dimensions (mm) |
|----------|---------------|---------------|-----------------|
| 41934006 | 10 | 2 | 36 x 28 Ø |
| 41934012 | 25 | 1 | 49 x 34 Ø |
| 41934018 | 50 | 5 | 60 x 43 Ø |
| 41934024 | 100 | 5 | 72 x 51 Ø |
| 41934030 | 150 | 5 | 82 x 58 Ø |
| 41934036 | 250 | 5 | 95 x 70 Ø |
| 41934042 | 400 | 10 | 110 x 80 Ø |
| 41934048 | 600 | 25 | 125 x 93 Ø |
| 41934060 | 1000 | 50 | 148 x 108 Ø |
| 41934066 | 2000 | 100 | 188 x 140 Ø |

Beakers low form, with scale

PREMIUM Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 41930004 | 25 | 50 x 34 Ø |
| 41930008 | 50 | 60 x 42 Ø |
| 41930012 | 100 | 70 x 50 Ø |
| 41930016 | 150 | 80 x 60 Ø |
| 41930020 | 250 | 95 x 70 Ø |
| 41930024 | 400 | 110 x 80 Ø |
| 41930028 | 600 | 125 x 90 Ø |
| 41930032 | 800 | 135 x 100 Ø |
| 41930036 | 1000 | 145 x 105 Ø |
| 41930040 | 2000 | 185 x 132 Ø |
| 41930044 | 3000 | 210 x 152 Ø |
| 41930048 | 5000 | 270 x 170 Ø |

Laboratory Equipment

Beakers

Beakers tall form, with scale

PREMIUM Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions approx. (mm) |
|----------|---------------|-------------------------|
| 41929024 | 50 | 70 x 38 Ø |
| 41929030 | 100 | 80 x 48 Ø |
| 41929036 | 150 | 95 x 54 Ø |
| 41929042 | 250 | 120 x 60 Ø |
| 41929048 | 400 | 130 x 70 Ø |
| 41929054 | 600 | 150 x 80 Ø |
| 41929060 | 800 | 175 x 90 Ø |
| 41929066 | 1000 | 180 x 95 Ø |
| 41929072 | 2000 | 240 x 120 Ø |

Beakers low form, with scale

BASIC Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | PU (pcs) |
|-----------|---------------|-------------------------|----------|
| 51930000 | 5 | 32 x 22 Ø | 10 |
| 51930002 | 10 | 37 x 26 Ø | 10 |
| 51930004 | 25 | 52 x 34 Ø | 10 |
| 51930008 | 50 | 62 x 42 Ø | 10 |
| 51930012 | 100 | 72 x 50 Ø | 10 |
| 51930016 | 150 | 82 x 60 Ø | 6 |
| 51930020 | 250 | 97 x 70 Ø | 10 |
| 51930024 | 400 | 113 x 80 Ø | 10 |
| 51930026* | 500 | 118 x 85 Ø | 8 |
| 51930028 | 600 | 128 x 90 Ø | 8 |
| 51930032 | 800 | 138 x 100 Ø | 6 |
| 51930036 | 1000 | 148 x 105 Ø | 6 |
| 51930040 | 2000 | 188 x 130 Ø | 4 |
| 51930044 | 3000 | 214 x 150 Ø | 1 |
| 51930048 | 5000 | 277 x 170 Ø | 1 |
| 51930052* | 10000 | 360 x 220 Ø | 1 |

*in addition to the norm

Angled brushes

- + with wooden handle
- + with angled handle
- + suitable for flasks with a ground joint from NS 29/32



| Art.No. | Total length (mm) | Brush Ø (mm) | Handle length (mm) |
|----------|-------------------|--------------|--------------------|
| 41912010 | 445 | 45 x 20 Ø | 370 |

Brushes for beakers

- + dun nylon bristles
- + for glass or plastic beakers



| Art.No. | Total length (mm) | Brush Ø (mm) | Brush length (mm) | Handle |
|----------|-------------------|--------------|-------------------|--------|
| 41936010 | 430 | 85/60 | 140 | wooden |
| 41936020 | 390 | 85/60 | 125 | wooden |
| 41936030 | 430 | 80 | 130 | wire |

Beakers tall form, with scale

BASIC Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | PU (pcs) |
|-----------|---------------|-------------------------|----------|
| 51929018 | 25 | 55 x 32 Ø | 10 |
| 51929024 | 50 | 72 x 38 Ø | 10 |
| 51929030 | 100 | 82 x 48 Ø | 10 |
| 51929036 | 150 | 97 x 54 Ø | 10 |
| 51929042 | 250 | 123 x 60 Ø | 10 |
| 51929048 | 400 | 133 x 70 Ø | 10 |
| 51929050* | 500 | 140 x 79 Ø | 8 |
| 51929054 | 600 | 153 x 80 Ø | 8 |
| 51929060 | 800 | 178 x 90 Ø | 6 |
| 51929066 | 1000 | 183 x 95 Ø | 6 |
| 51929072 | 2000 | 244 x 120 Ø | 1 |

*in addition to the norm

Beakers SIMAX

tall form, with scale

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions (mm) |
|-----------|---------------|-----------------|
| 41929218* | 25 | 55 x 30 Ø |
| 41929224 | 50 | 70 x 38 Ø |
| 41929230 | 100 | 80 x 48 Ø |
| 41929236 | 150 | 95 x 54 Ø |
| 41929242 | 250 | 120 x 60 Ø |
| 41929248 | 400 | 130 x 70 Ø |
| 41929254 | 600 | 150 x 80 Ø |
| 41929260 | 800 | 175 x 90 Ø |
| 41929266 | 1000 | 180 x 95 Ø |
| 41929272 | 2000 | 240 x 120 Ø |

*without scale

PREMIUM

Boro 3.3

Beakers SIMAX

low form, with scale

- + with spout
- + DIN EN ISO 3819
- + white graduation



| Art.No. | Capacity (ml) | Dimensions (mm) |
|-----------|---------------|-----------------|
| 41930204* | 25 | 50 x 34 Ø |
| 41930208 | 50 | 60 x 42 Ø |
| 41930212 | 100 | 70 x 50 Ø |
| 41930216 | 150 | 80 x 60 Ø |
| 41930220 | 250 | 95 x 70 Ø |
| 41930224 | 400 | 110 x 80 Ø |
| 41930228 | 600 | 125 x 90 Ø |
| 41930232 | 800 | 135 x 100 Ø |
| 41930236 | 1000 | 145 x 105 Ø |
| 41930240 | 2000 | 185 x 130 Ø |
| 41930244 | 3000 | 210 x 150 Ø |
| 41930248 | 5000 | 270 x 170 Ø |

*without scale

PREMIUM

Boro 3.3

Erlenmeyer flasks (baffled flasks)

BASIC

Boro 3.3

- + made from ASTM E-438 Type 1
- + ideal for using of culture preparation
- + suitable for autoclave at 121°C.

- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck Ø approx. (mm) | PU (pcs) |
|----------|---------------|-------------------------|---------------------|----------|
| 51909012 | 250 | 145 x 85 Ø | 38 | 6 |
| 51909014 | 500 | 182 x 105 Ø | 38 | 6 |
| 51909016 | 1000 | 230 x 129 Ø | 38 | 6 |
| 51909018 | 2000 | 275 x 165 Ø | 38 | 4 |

Erlenmeyer flasks with glass stopper

BASIC

Boro 3.3

- + DIN ISO 4797
- + white graduation, with ground joint
- + with NS joint size labelling
- + supplied with hollow glass stopper



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | NS | PU (pcs) |
|----------|---------------|-------------------------|-------|----------|
| 51918006 | 25 | 70 x 40 Ø | 14/23 | 10 |
| 51918012 | 50 | 90 x 51 Ø | 29/32 | 10 |
| 51918013 | 50 | 90 x 51 Ø | 14/23 | 10 |
| 51918014 | 50 | 90 x 51 Ø | 19/26 | 10 |
| 51918016 | 50 | 90 x 51 Ø | 24/29 | 10 |
| 51918017 | 100 | 105 x 64 Ø | 14/23 | 6 |
| 51918018 | 100 | 105 x 64 Ø | 29/32 | 2 |
| 51918020 | 100 | 105 x 64 Ø | 19/26 | 6 |
| 51918021 | 100 | 105 x 64 Ø | 24/29 | 6 |
| 51918026 | 250 | 145 x 85 Ø | 19/26 | 6 |
| 51918028 | 250 | 145 x 85 Ø | 24/29 | 6 |
| 51918030 | 250 | 145 x 85 Ø | 29/32 | 2 |
| 51918036 | 300 | 150 x 85 Ø | 29/32 | 6 |
| 51918038 | 500 | 180 x 105 Ø | 19/26 | 6 |
| 51918040 | 500 | 180 x 105 Ø | 24/29 | 6 |
| 51918042 | 500 | 180 x 105 Ø | 29/32 | 6 |
| 51918048 | 1000 | 220 x 131 Ø | 29/32 | 6 |
| 51918056 | 2000 | 280 x 166 Ø | 29/32 | 4 |

Laboratory Equipment

Erlenmeyer flasks

Erlenmeyer flasks

narrow neck

PREMIUM Boro 3.3

- + DIN ISO 1773
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck outer-Ø approx. (mm) |
|-----------|---------------|-------------------------|---------------------------|
| 41940012 | 25 | 75 x 42 Ø | 22 |
| 41940018 | 50 | 90 x 51 Ø | 22 |
| 41940024 | 100 | 105 x 64 Ø | 22 |
| 41940030* | 200 | 131 x 79 Ø | 34 |
| 41940036 | 250 | 145 x 85 Ø | 34 |
| 41940042* | 300 | 156 x 87 Ø | 34 |
| 41940048 | 500 | 180 x 105 Ø | 34 |
| 41940054 | 1000 | 220 x 131 Ø | 42 |
| 41940060 | 2000 | 280 x 166 Ø | 50 |
| 41940066 | 3000 | 310 x 187 Ø | 51 |
| 41940072 | 5000 | 365 x 220 Ø | 51 |

*in addition to the norm

Erlenmeyer flasks

narrow neck

BASIC Boro 3.3

- + DIN ISO 1773
- + white graduation
- + with scale
- + has a reinforced thick rim to reduce breakage



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck outer Ø approx. (mm) | PU (pcs) |
|-----------|---------------|-------------------------|---------------------------|----------|
| 51940012 | 25 | 75 x 42 Ø | 22 | 10 |
| 51940018 | 50 | 90 x 51 Ø | 22 | 10 |
| 51940024 | 100 | 105 x 64 Ø | 22 | 10 |
| 51940026* | 125 | 110 x 66 Ø | 28 | 6 |
| 51940028* | 150 | 124 x 72 Ø | 28 | 10 |
| 51940030* | 200 | 130 x 78 Ø | 34 | 6 |
| 51940036 | 250 | 145 x 85 Ø | 34 | 10 |
| 51940042* | 300 | 156 x 88 Ø | 34 | 6 |
| 51940048 | 500 | 180 x 105 Ø | 34 | 10 |
| 51940054 | 1000 | 220 x 131 Ø | 42 | 10 |
| 51940060 | 2000 | 280 x 166 Ø | 50 | 6 |
| 51940066 | 3000 | 310 x 187 Ø | 50 | 1 |
| 51940072 | 5000 | 365 x 220 Ø | 50 | 1 |

*in addition to the norm

Erlenmeyer flasks

SIMAX, narrow neck

PREMIUM Boro 3.3

- + DIN ISO 1773
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck inner Ø approx. (mm) |
|----------|---------------|-------------------------|---------------------------|
| 41940212 | 25 | 70 x 42 Ø | 22 |
| 41940218 | 50 | 85 x 51 Ø | 22 |
| 41940224 | 100 | 105 x 64 Ø | 22 |
| 41940230 | 200 | 131 x 79 Ø | 34 |
| 41940236 | 250 | 140 x 85 Ø | 34 |
| 41940242 | 300 | 156 x 87 Ø | 34 |
| 41940248 | 500 | 175 x 105 Ø | 34 |
| 41940254 | 1000 | 220 x 131 Ø | 42 |
| 41940260 | 2000 | 280 x 166 Ø | 50 |
| 41940266 | 3000 | 310 x 187 Ø | 50 |
| 41940272 | 5000 | 365 x 220 Ø | 50 |

Erlenmeyer flasks

wide neck

PREMIUM

Boro 3.3

- + DIN EN ISO 24450
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck Ø approx. (mm) |
|-----------|---------------|-------------------------|---------------------|
| 41941012* | 25 | 75 x 43 Ø | 31 |
| 41941018 | 50 | 85 x 51 Ø | 34 |
| 41941024 | 100 | 105 x 64 Ø | 34 |
| 41941030* | 200 | 131 x 79 Ø | 50 |
| 41941036 | 250 | 145 x 85 Ø | 50 |
| 41941042* | 300 | 156 x 87 Ø | 50 |
| 41941048 | 500 | 175 x 105 Ø | 50 |
| 41941054 | 1000 | 220 x 131 Ø | 50 |
| 41941060* | 2000 | 276 x 153 Ø | 72 |

*in addition to the norm

Erlenmeyer flasks

wide neck

BASIC

Boro 3.3

- + DIN EN ISO 24450
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck outer Ø approx. (mm) | PU (pcs) |
|-----------|---------------|-------------------------|---------------------------|----------|
| 51941012* | 25 | 70 x 41 Ø | 31 | 10 |
| 51941018 | 50 | 85 x 51 Ø | 34 | 10 |
| 51941024 | 100 | 105 x 64 Ø | 34 | 10 |
| 51941026* | 125 | 110 x 66 Ø | 34 | 10 |
| 51941028* | 150 | 124 x 72 Ø | 34 | 10 |
| 51941030* | 200 | 130 x 78 Ø | 50 | 10 |
| 51941036 | 250 | 140 x 85 Ø | 50 | 10 |
| 51941042* | 300 | 156 x 88 Ø | 50 | 10 |
| 51941048 | 500 | 175 x 105 Ø | 50 | 10 |
| 51941054 | 1000 | 220 x 131 Ø | 50 | 10 |
| 51941060* | 2000 | 280 x 166 Ø | 55 | 6 |
| 51941066* | 3000 | 320 x 192 Ø | 62 | 1 |
| 51941072* | 5000 | 380 x 235 Ø | 63 | 1 |

*in addition to the norm

Erlenmeyer flasks

SIMAX, wide neck

PREMIUM

Boro 3.3

- + DIN ISO 1773
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck inner Ø approx. (mm) |
|----------|---------------|-------------------------|---------------------------|
| 41941212 | 25 | 70 x 42 Ø | 32 |
| 41941218 | 50 | 85 x 51 Ø | 34 |
| 41941224 | 100 | 105 x 64 Ø | 34 |
| 41941230 | 200 | 131 x 79 Ø | 50 |
| 41941236 | 250 | 135 x 85 Ø | 50 |
| 41941242 | 300 | 156 x 87 Ø | 50 |
| 41941248 | 500 | 170 x 105 Ø | 50 |
| 41941254 | 1000 | 215 x 131 Ø | 50 |
| 41941260 | 2000 | 280 x 153 Ø | 72 |

Laboratory Equipment

Erlenmeyer flasks

Erlenmeyer flasks narrow neck, with standard ground

PREMIUM Boro 3.3

- + without stopper
- + DIN EN ISO 4797
- + white graduation
- + with NS joint size labelling
- + with scale



| Art.No. | Capacity (ml) | NS |
|----------|---------------|-------|
| 41915006 | 25 | 14/23 |
| 41915012 | 50 | 29/32 |
| 41915014 | 50 | 19/26 |
| 41915018 | 100 | 29/32 |
| 41915020 | 100 | 19/26 |
| 41915024 | 200 | 29/32 |
| 41915030 | 250 | 29/32 |
| 41915034 | 250 | 45/40 |
| 41915036 | 300 | 29/32 |
| 41915042 | 500 | 29/32 |
| 41915046 | 500 | 45/40 |
| 41915048 | 1000 | 29/32 |
| 41915052 | 1000 | 45/40 |
| 41915056 | 2000 | 29/32 |

Erlenmeyer flasks with standard ground

BASIC Boro 3.3

- + without stopper
- + DIN EN ISO 4797
- + white graduation
- + with NS joint size labelling
- + with scale



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | NS | PU (pcs) |
|----------|---------------|-------------------------|-------|----------|
| 51915006 | 25 | 70 x 40 Ø | 14/23 | 10 |
| 51915012 | 50 | 85 x 51 Ø | 29/32 | 10 |
| 51915013 | 50 | 85 x 51 Ø | 14/23 | 10 |
| 51915014 | 50 | 85 x 51 Ø | 19/26 | 10 |
| 51915016 | 50 | 85 x 51 Ø | 24/29 | 10 |
| 51915017 | 100 | 100 x 64 Ø | 14/23 | 10 |
| 51915018 | 100 | 100 x 64 Ø | 29/32 | 10 |
| 51915020 | 100 | 100 x 64 Ø | 19/26 | 10 |
| 51915021 | 100 | 100 x 64 Ø | 24/29 | 10 |
| 51915026 | 250 | 150 x 85 Ø | 19/26 | 10 |
| 51915028 | 250 | 150 x 85 Ø | 24/29 | 10 |
| 51915030 | 250 | 150 x 85 Ø | 29/32 | 10 |
| 51915036 | 300 | 150 x 85 Ø | 29/32 | 10 |
| 51915038 | 500 | 180 x 105 Ø | 19/26 | 10 |
| 51915040 | 500 | 180 x 105 Ø | 24/29 | 10 |
| 51915042 | 500 | 180 x 105 Ø | 29/32 | 10 |
| 51915048 | 1000 | 220 x 131 Ø | 29/32 | 6 |
| 51915056 | 2000 | 270 x 166 Ø | 29/32 | 6 |

upon request other sizes are available

Erlenmeyer flasks (iodine determination flasks) with standard ground

PREMIUM Boro 3.3

- + with NS glass stopper
- + with NS joint size labelling
- + white graduation
- + with scale



| Art.No. | Capacity (ml) | NS |
|----------|---------------|-------|
| 41918006 | 25 | 14/23 |
| 41918012 | 50 | 29/32 |
| 41918018 | 100 | 29/32 |
| 41918020 | 100 | 19/26 |
| 41918024 | 200 | 29/32 |
| 41918030 | 250 | 29/32 |
| 41918036 | 300 | 29/32 |
| 41918042 | 500 | 29/32 |
| 41918048 | 1000 | 29/32 |

Erlenmeyer flasks SIMAX, narrow neck, with thread

PREMIUM

Boro
3.3

| Art.No. | Capacity (ml) | Thread | Dimensions approx. (mm) |
|----------|---------------|--------|-------------------------|
| 41943124 | 100 | GL 25 | 100 x 64 Ø |
| 41943136 | 250 | GL 32 | 140 x 85 Ø |
| 41943148 | 500 | GL 32 | 175 x 105 Ø |
| 41943154 | 1000 | GL 32 | 215 x 131 Ø |



- + with blue screw cap made of PP
- + with scale
- + white graduation
- + temperature resistant up to max. +140 °C/+284 °F

Erlenmeyer flasks narrow neck, with thread

BASIC

Boro
3.3

| Art.No. | Capacity (ml) | Thread | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|--------|-------------------------|----------|
| 51943024 | 100 | GL 25 | 105 x 64 Ø | 2 |
| 51943036 | 250 | GL 45 | 145 x 85 Ø | 2 |
| 51943048 | 500 | GL 45 | 180 x 105 Ø | 2 |
| 51943054 | 1000 | GL 45 | 220 x 131 Ø | 2 |



- + with blue screw cap made of PP
- + white graduation
- + with scale
- + autoclavable

upon request other sizes are available

Filtering flasks suction flasks, Erlenmeyer shape

PREMIUM

Boro
3.3



- + DIN EN ISO 6556
- + with glass hose connection on the side

| Art.No. | Capacity (ml) | Height (mm) |
|----------|---------------|-------------|
| 41270036 | 250 | 145 |
| 41270042 | 500 | 175 |
| 41270048 | 1000 | 230 |
| 41270054 | 2000 | 255 |

Filtering flasks suction flasks, Erlenmeyer shape

BASIC

Boro
3.3



- + DIN ISO 3585
- + with glass side arm

| Art.No. | Capacity (ml) | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|-------------------------|----------|
| 51270024 | 100 | 110 x 64 Ø | 2 |
| 51270036 | 250 | 155 x 85 Ø | 6 |
| 51270042 | 500 | 190 x 105 Ø | 6 |
| 51270048 | 1000 | 230 x 136 Ø | 6 |
| 51270056 | 2000 | 290 x 166 Ø | 10 |

Filtering jars cylindrical, with spout



| Art.No. | Capacity (ml) |
|----------|---------------|
| 41271006 | 50 |
| 41271012 | 100 |
| 41271018 | 250 |

Nessler cylinders colour comparison, flat bottom

BASIC

Boro
3.3



- + helps in comparing colour of water samples
- + blue graduation

| Art.Nr. | Capacity (ml) | Division (ml) | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|---------------|-------------------------|----------|
| 53100024 | 50 | 25 & 50 | 150 x 25 Ø | 2 |
| 53100030 | 100 | 50 & 100 | 180 x 34 Ø | 2 |

Glass tanks

- + with fine ground rim
- + made of soda-lime glass



| Art.No. | Width (mm) | Length (mm) | Height (mm) |
|----------|------------|-------------|-------------|
| 40070001 | 100 | 150 | 150 |
| 40070002 | 130 | 180 | 180 |
| 40070003 | 150 | 200 | 200 |
| 40070004 | 180 | 220 | 250 |
| 40070005 | 220 | 240 | 300 |
| 40070011 | 220 | 150 | 300 |

Specimen jars

- + with ground cover plate
- + made of soda-lime glass



| Art.No. | Width (mm) | Length (mm) | Height (mm) |
|----------|------------|-------------|-------------|
| 42660003 | 65 | 75 | 150 |
| 42660004 | 50 | 105 | 150 |
| 42660005 | 100 | 100 | 150 |
| 42660006 | 80 | 120 | 200 |
| 42660007 | 140 | 140 | 200 |
| 42660008 | 100 | 200 | 225 |

Specimen jars

- + without cover plate
- + made of soda-lime glass



| Art.No. | Width (mm) | Length (mm) | Height (mm) |
|----------|------------|-------------|-------------|
| 42661010 | 50 | 105 | 120 |

Reagent bottles ASSISTENT clear glass

Boro
3.3

- + with blue PP screw cap and blue O-ring
- + with scale
- + white graduation with marking area
- + in compliance with DIN ISO 4796
- + autoclavable (121°C)



| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Thread | PU |
|----------|-----------------------|-------------------------|--------|----|
| 41330206 | 50 | 91 x 46 Ø | GL 32 | 10 |
| 41330212 | 100 | 105 x 56 Ø | GL 45 | 10 |
| 41330218 | 250 | 143 x 70 Ø | GL 45 | 10 |
| 41330224 | 500 | 181 x 86 Ø | GL 45 | 10 |
| 41330230 | 1000 | 230 x 101 Ø | GL 45 | 10 |
| 41330236 | 2000 | 265 x 136 Ø | GL 45 | 10 |
| 41330242 | 5000 | 336 x 181 Ø | GL 45 | 6 |

Reagent bottles SIMAX clear glass

Boro
3.3

- + with blue PP screw cap and blue O-ring
- + with scale
- + white graduation
- + DIN EN ISO 4796-1
- + autoclavable (121°C)



| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Thread |
|----------|-----------------------|-------------------------|--------|
| 41330106 | 50 | 91 x 46 Ø | GL 32 |
| 41330112 | 100 | 105 x 56 Ø | GL 45 |
| 41330118 | 250 | 143 x 70 Ø | GL 45 |
| 41330124 | 500 | 181 x 86 Ø | GL 45 |
| 41330130 | 1000 | 230 x 101 Ø | GL 45 |
| 41330136 | 2000 | 265 x 136 Ø | GL 45 |
| 41330142 | 5000 | 336 x 181 Ø | GL 45 |
| 41330148 | 10000 | 416 x 227 Ø | GL 45 |

Reagent bottles SIMAX amber glass

Boro
3.3

- + with blue PP screw cap and blue O-ring
- + with scale
- + white graduation
- + DIN EN ISO 4796-1
- + autoclavable (121°C)



| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Thread |
|----------|-----------------------|-------------------------|--------|
| 41331106 | 50 | 91 x 46 Ø | GL 32 |
| 41331112 | 100 | 105 x 56 Ø | GL 45 |
| 41331118 | 250 | 143 x 70 Ø | GL 45 |
| 41331124 | 500 | 181 x 86 Ø | GL 45 |
| 41331130 | 1000 | 230 x 101 Ø | GL 45 |
| 41331136 | 2000 | 265 x 136 Ø | GL 45 |
| 41331142 | 5000 | 336 x 181 Ø | GL 45 |

Aspirator bottles with socket

BASIC Boro 3.3



- + DIN EN ISO 4796-3
- + with autoclavable PP screw cap and o-ring
- and pouring ring
- + white graduation and white enamel marking area
- + with NS 29/32 side joint

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Thread | PU (pcs) |
|----------|-----------------------|-------------------------|--------|----------|
| 51277003 | 5000 | 330 x 181 Ø | GL 45 | 1 |
| 51277004 | 10000 | 410 x 227 Ø | GL 45 | 1 |
| 51277005 | 20000 | 500 x 296 Ø | GL 45 | 1 |

Other sizes are available upon request.

Laboratory bottles SIMAX square, clear glass

Boro 3.3

- + with blue screw cap and blue pouring ring
- + resistant up to +140°C/+284°F
- + thread GL 80
- + DIN ISO 4796-1



| Art.No. | Capacity approx. (ml) | Dimensions approx. (ml) |
|----------|-----------------------|-------------------------|
| 41333124 | 500 | 139 x 95 x 95 |
| 41333130 | 1000 | 185 x 105 x 105 |
| 41333136 | 2000 | 258 x 115 x 115 |
| 41333142 | 5000 | 357 x 160 x 160 |

Laboratory bottles SIMAX square, amber glass

Boro 3.3

- + with blue screw cap and blue pouring ring
- + resistant up to +140°C/+284°F
- + thread GL 80
- + DIN ISO 4796-1



| Art.No. | Capacity approx. (ml) | Dimensions approx. (ml) |
|----------|-----------------------|-------------------------|
| 41334124 | 500 | 139 x 95 x 95 |
| 41334130 | 1000 | 185 x 105 x 105 |
| 41334136 | 2000 | 258 x 115 x 115 |
| 41334142 | 5000 | 357 x 160 x 160 |

Narrow neck bottles clear glass



- + soda-lime glass (hydrolytic class 3) Type III
- + with thread and screw cap
- + screw caps of urea resin molding, black, with Lupolen®-insert
- + the screw caps are heat-resistant up to +110°C / +230°F

| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Thread |
|----------|---------------|-------------------------|--------|
| 41322012 | 30 | 74 x 34 Ø | GL 18 |
| 41322018 | 50 | 97 x 37 Ø | GL 18 |
| 41322030 | 100 | 117 x 45 Ø | GL 22 |
| 41322054 | 250 | 148.5 x 61.5 Ø | GL 22 |
| 41322066 | 500 | 187.7 x 76 Ø | GL 25 |
| 41322072 | 1000 | 218.3 x 97.5 Ø | GL 28 |

Narrow neck bottles amber glass



- + soda-lime glass (hydrolytic class 3) Type III
- + with thread and screw cap
- + screw caps of urea resin molding, black, with Lupolen®-insert
- + the screw caps are heat-resistant up to +110°C / +230°F

| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Thread |
|----------|---------------|-------------------------|--------|
| 41323030 | 100 | 117 x 45 Ø | GL 22 |
| 41323048 | 200 | 143 x 56.5 Ø | GL 22 |
| 41323066 | 500 | 185.7 x 76 Ø | GL 25 |
| 41323072 | 1000 | 218.3 x 97.5 Ø | GL 28 |

Wide neck bottles clear glass



- + with thread and screw cap
- + the screw caps are heat-resistant up to +110°C / +230°F
- + sealing material: urea resin moulding compound
- + colour of sealing material: black
- + sealing of Lupolen®
- + made of recycling-glass (40 %)

| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Thread | Weight approx. (g) |
|----------|---------------|-------------------------|--------|--------------------|
| 41324006 | 25 | 57 x 36 Ø | GL 28 | 40 |
| 41324012 | 30 | 68 x 36 Ø | GL 32 | 47 |
| 41324018 | 50 | 75 x 44 Ø | GL 32 | 65 |
| 41324030 | 75 | 92.5 x 50 Ø | GL 40 | 100 |
| 41324036 | 100 | 98 x 54 Ø | GL 40 | 110 |
| 41324042 | 125 | 104 x 57 Ø | GL 45 | 138 |
| 41324048 | 150 | 109 x 63 Ø | GL 55 | 185 |
| 41324054 | 250 | 113 x 70 Ø | GL 55 | 218 |
| 41324066 | 500 | 154 x 84 Ø | GL 55 | 335 |
| 41324072 | 1000 | 180.5 x 103.5 Ø | GL 68 | 517 |

Wide neck bottles

amber glass



- + with thread and screw cap
- + the screw caps are heat-resistant up to +110°C /+230°F
- + sealing material: urea resin moulding compound
- + colour of sealing material: black
- + sealing of Lupolen®
- + made of recycling-glass (40 %)

| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Thread | Weight approx. (g) |
|----------|---------------|-------------------------|--------|--------------------|
| 41325012 | 30 | 68 x 36 Ø | GL 32 | 47 |
| 41325018 | 50 | 75 x 44 Ø | GL 32 | 65 |
| 41325024 | 75 | 79 x 48.5 Ø | GL 40 | 85 |
| 41325030 | 100 | 92.5 x 50 Ø | GL 40 | 100 |
| 41325036 | 125 | 98 x 54 Ø | GL 40 | 110 |
| 41325042 | 150 | 104 x 57 Ø | GL 45 | 138 |
| 41325048 | 200 | 109 x 63 Ø | GL 55 | 185 |
| 41325054 | 250 | 113 x 70 Ø | GL 55 | 218 |
| 41325060 | 300 | 127 x 70 Ø | GL 55 | 230 |
| 41325066 | 500 | 154 x 84 Ø | GL 55 | 335 |
| 41325072 | 1000 | 180.5 x 103.5 Ø | GL 68 | 517 |

Screw caps

made of urea resin moulding compound



- + heat-resistant up to +90°C /+194°F
- + recommended storage temperature: 20°C/68°F ± 5°C/41°F
- + colour black
- + sealing of Lupolen®

| Art.No. | Dimensions approx. (mm) | Thread | Weight approx. (g) |
|----------|-------------------------|--------|--------------------|
| 41326018 | 12 x 20 Ø | GL 18 | 2.2 |
| 41326022 | 13.5 x 25 Ø | GL 22 | 4.1 |
| 41326025 | 13.5 x 28 Ø | GL 25 | 4.4 |
| 41326028 | 13.5 x 31 Ø | GL 28 | 4.5 |
| 41326032 | 13.5 x 36 Ø | GL 32 | 8.3 |
| 41326040 | 14 x 42.5 Ø | GL 40 | 8.7 |
| 41326045 | 13.5 x 47 Ø | GL 45 | 12 |
| 41326055 | 16.5 x 58.5 Ø | GL 55 | 16 |
| 41326068 | 16 x 71.5 Ø | GL 68 | 22 |

Pouring rings

- + made of polypropylene
- + colour: blue
- + resistant up to +135°C/275°F



| Art.No. | for | Thread |
|----------|--------------------|--------|
| 41335010 | Bottles from 100ml | GL 45 |
| 41335032 | Bottles of 50ml | GL 32 |

Screw caps

- + made of polypropylene
- + colour: transparent
- + with seal
- + resistant up to +135°C/+275°F
- + also available in red and blue



| Art.No. | for | Thread |
|----------|--------------------|--------|
| 41336010 | Bottles from 100ml | GL 45 |
| 41336032 | Bottles of 50ml | GL 32 |

Storage bottle for titration apparatus clear glass



| Art.No. | Capacity (ml) | Height (mm) | NS |
|----------|---------------|-------------|-------|
| 41916048 | 1000 | 200 | 29/32 |
| 41916054 | 2000 | 200 | 29/32 |

Storage bottle for titration apparatus amber glass



| Art.No. | Capacity (ml) | Height (mm) | NS |
|----------|---------------|-------------|-------|
| 41917048 | 1000 | 200 | 29/32 |
| 41917054 | 2000 | 200 | 29/32 |

Bottles with conical shoulder narrow neck, clear glass

+ with stopper made of polyethylene and standard ground

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | NS |
|----------|-----------------------|-------------------------|-------|
| 41280006 | 50 | 77 x 41.5 Ø | 14/15 |
| 41280012 | 100 | 103 x 51.5 Ø | 14/23 |
| 41280018 | 250 | 131 x 69 Ø | 19/26 |
| 41280024 | 500 | 163 x 85 Ø | 24/29 |
| 41280030 | 1000 | 199 x 106.5 Ø | 29/32 |
| 41280036 | 2000 | 245 x 133 Ø | 29/32 |



Bottles with conical shoulder narrow neck, amber glass

+ with stopper made of polyethylene and standard ground

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | NS |
|----------|-----------------------|-------------------------|-------|
| 41282006 | 50 | 77 x 41.5 Ø | 14/15 |
| 41282012 | 100 | 103 x 51.5 Ø | 14/23 |
| 41282018 | 250 | 131 x 69 Ø | 19/26 |
| 41282024 | 500 | 163 x 85 Ø | 24/29 |
| 41282030 | 1000 | 199 x 106.5 Ø | 29/32 |
| 41282036 | 2000 | 245 x 133 Ø | 29/32 |



Bottles with conical shoulder narrow neck, clear glass

- + with glass stopper and standard ground
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | NS |
|----------|-----------------------|-------------------------|-------|
| 41281006 | 50 | 77 x 41.5 Ø | 14/15 |
| 41281012 | 100 | 103 x 51.5 Ø | 14/23 |
| 41281018 | 250 | 131 x 69 Ø | 19/26 |
| 41281024 | 500 | 163 x 85 Ø | 24/29 |
| 41281030 | 1000 | 199 x 106.5 Ø | 29/32 |
| 41281036 | 2000 | 245 x 133 Ø | 29/32 |



Bottles with conical shoulder narrow neck, amber glass

- + with glass stopper and standard ground
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | NS |
|----------|-----------------------|-------------------------|-------|
| 41283006 | 50 | 77 x 41.5 Ø | 14/15 |
| 41283012 | 100 | 103 x 51.5 Ø | 14/23 |
| 41283018 | 250 | 131 x 69 Ø | 19/26 |
| 41283024 | 500 | 163 x 85 Ø | 24/29 |
| 41283030 | 1000 | 199 x 106.5 Ø | 29/32 |
| 41283036 | 2000 | 245 x 133 Ø | 29/32 |



Narrow neck bottles (round shoulder) clear glass

- + with ground-in glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height without stopper (mm) |
|----------|-----------------------|-----------------------|-----------------------------|
| 41301006 | 50 | 41.5 | 77 |
| 41301012 | 100 | 51.5 | 103 |
| 41301018 | 250 | 69 | 131 |
| 41301024 | 500 | 85 | 163 |
| 41301030 | 1000 | 106.5 | 199 |



Narrow neck bottles (round shoulder) amber glass

- + with ground-in glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height without stopper (mm) |
|----------|-----------------------|-----------------------|-----------------------------|
| 41303006 | 50 | 41.5 | 77 |
| 41303012 | 100 | 51.5 | 103 |
| 41303018 | 250 | 69 | 131 |
| 41303024 | 500 | 85 | 163 |
| 41303030 | 1000 | 106.5 | 199 |
| 41303036 | 2000 | 132 | 245 |



Wide neck bottles (round shoulder) clear glass

- + with ground-in glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height without stopper (mm) | NS |
|----------|-----------------------|-----------------------|-----------------------------|-------|
| 41311006 | 50 | 42,6 | 76,5 | 24/20 |
| 41311012 | 100 | 52 | 95 | 29/22 |
| 41311018 | 250 | 71 | 129,5 | 34/24 |
| 41311024 | 500 | 87 | 164 | 45/27 |
| 41311030 | 1000 | 110 | 190 | 60/31 |



Wide neck bottles (round shoulder) amber glass

- + with ground-in glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height without stopper (mm) | NS |
|----------|-----------------------|-----------------------|-----------------------------|-------|
| 41313006 | 50 | 42,6 | 76,5 | 24/20 |
| 41313012 | 100 | 52 | 95 | 29/22 |
| 41313018 | 250 | 71 | 129,5 | 34/24 |
| 41313024 | 500 | 87 | 164 | 45/27 |
| 41313030 | 1000 | 110 | 190 | 60/31 |
| 41313036 | 2000 | 132 | 238 | 60/31 |



Dropping bottles amber glass



- + with thread DIN 18
- + without cap
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) |
|----------|-----------------------|-------------------------|
| 41314005 | 5 | 53.4 x 22 Ø |
| 41314010 | 10 | 63.7 x 24.2 Ø |
| 41314015 | 15 | 65 x 28.5 Ø |
| 41314020 | 20 | 72.2 x 29.5 Ø |
| 41314030 | 30 | 80.2 x 33 Ø |
| 41314050 | 50 | 91.7 x 38 Ø |
| 41314060 | 100 | 110.7 x 47 Ø |

Pipette kit for dropping bottles for Art.No. 41314...



Consisting of:

- + screw cap made of PP
- + suction bulb (blue or red) made of TPE
- + glass pipette made of soda-lime glass
- + with thread DIN 18
- + heat resistant up to max. 60°C/140°F

| Art.No. | for (ml) | Colour | Art.No. | for (ml) | Colour |
|----------|----------|--------|----------|----------|--------|
| 41315005 | 5 | blue | 41315006 | 5 | red |
| 41315010 | 10 | | 41315011 | 10 | |
| 41315020 | 20 | | 41315021 | 20 | |
| 41315030 | 30 | | 41315031 | 30 | |
| 41315050 | 50 | | 41315051 | 50 | |
| 41315060 | 100 | | 41315061 | 100 | |

Screw caps for dropping bottles for Art.No. 41314... made of LDPE



| Art.No. | GL | Variant |
|----------|----|--------------------------------------|
| 41316101 | 18 | UNI 1, fast dropping, 4 holes, red |
| 41316102 | | UNI 1, fast dropping, 4 holes, white |
| 41316202 | | UNI 2, slow dropping, 2 holes, white |
| 41316301 | | tamper-evident, red |
| 41316302 | | tamper-evident, white |
| 41316303 | | tamper-evident, yellow |
| 41316304 | | tamper-evident, black |
| 41316402 | | with child safety lock, white |

Dropping bottles TK clear glass



- + with ground-in, flat glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height approx. (mm) |
|----------|-----------------------|-----------------------|---------------------|
| 41318006 | 50 | 44 | 92 |
| 41318012 | 100 | 55 | 106 |

Dropping bottles TK amber glass



- + with ground-in, flat glass stopper
- + made of soda-lime glass

| Art.No. | Capacity approx. (ml) | Diameter approx. (mm) | Height approx. (mm) |
|----------|-----------------------|-----------------------|---------------------|
| 41319006 | 50 | 44 | 92 |
| 41319012 | 100 | 55 | 106 |



Narrow neck bottles made of polyethylene

- + with screw cap
- + PE-LD, flexible

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) |
|-----------|---------------|--------|---------------|-------------------|-------------------------------|
| 49100006 | 30 | GL 14 | 35 | 9 | 66 |
| 49100012 | 50 | GL 18 | 40 | 13 | 84 |
| 49100018 | 100 | GL 18 | 45 | 13 | 102 |
| 49100024 | 250 | GL 25 | 60 | 18 | 138 |
| 49100030 | 500 | GL 25 | 75 | 18 | 169 |
| 49100036 | 1000 | GL 28 | 95 | 21 | 212 |
| 49100042 | 2000 | GL 28 | 120 | 21 | 260 |
| 49100048* | 5000 | GL 40 | 163 | 31 | 360 |

*with handle



Wide neck bottles made of polyethylene

- + with screw cap
- + PE-LD, flexible

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) |
|----------|---------------|--------|---------------|-------------------|-------------------------------|
| 49101012 | 50 | GL 32 | 40 | 24 | 77 |
| 49101018 | 100 | GL 32 | 48 | 24 | 92 |
| 49101024 | 250 | GL 40 | 64 | 31 | 123 |
| 49101030 | 500 | GL 50 | 75 | 38.5 | 153 |
| 49101036 | 1000 | GL 65 | 94 | 50 | 202 |
| 49101042 | 2000 | GL 65 | 120 | 50 | 243 |

Washing bottles made of polyethylene

- + PE-LD
- + flexible
- + with PP screw cap and spray tube

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) | Height with screw cap (mm) |
|----------|---------------|--------|---------------|-------------------|-------------------------------|----------------------------|
| 49102018 | 100 | GL 18 | 45 | 13 | 102 | 205 |
| 49102024 | 250 | GL 25 | 60 | 18 | 138 | 310 |
| 49102030 | 500 | GL 25 | 75 | 18 | 169 | 315 |
| 49102036 | 1000 | GL 28 | 95 | 21 | 212 | 375 |



High shoulder bottles narrow neck

- + PE-LD
- + with screw cap

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) |
|----------|---------------|--------|---------------|-------------------|-------------------------------|
| 49105012 | 50 | GL 18 | 37 | 13 | 81 |
| 49105018 | 100 | GL 18 | 44 | 13 | 96 |
| 49105024 | 250 | GL 25 | 60 | 17.5 | 125 |
| 49105030 | 500 | GL 25 | 77 | 17.5 | 160 |
| 49105036 | 1000 | GL 28 | 95 | 21 | 197 |



Bottles with conical shoulder narrow neck

- + made of polypropylene
- + with octagonal stopper made of polyethylene

| Art.No. | Capacity (ml) | NS | Diameter (mm) | Neck inner Ø (mm) | Height without stopper (mm) |
|----------|---------------|-------|---------------|-------------------|-----------------------------|
| 49108018 | 100 | 14/23 | 52 | 14.5 | 100 |
| 49108024 | 250 | 19/26 | 70 | 19 | 128 |
| 49108030 | 500 | 24/29 | 86 | 24 | 162 |
| 49108036 | 1000 | 29/30 | 106 | 29 | 197 |



Bottles

wide neck, round

- + made of polypropylene
- + with screw cap and graduation
- + autoclavable up to +121°C / +249.8°F

| Art.No. | Capacity(ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) |
|----------|--------------|--------|---------------|-------------------|-------------------------------|
| 49115012 | 50 | GL 32 | 40 | 24 | 77 |
| 49115018 | 100 | GL 32 | 48 | 24 | 92 |
| 49115024 | 250 | GL 40 | 64 | 31 | 123 |
| 49115030 | 500 | GL 50 | 75 | 38.5 | 153 |
| 49115036 | 1000 | GL 65 | 94 | 50 | 202 |



Square bottles made of polyethylene

- + PE-HD
- + with PE-HD screw caps

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without screw cap (mm) | Variant |
|----------|---------------|--------|---------------|-------------------|-------------------------------|-------------|
| 49116012 | 50 | GL 18 | 33 x 34 | 13 | 74 | narrow neck |
| 49116018 | 100 | GL 18 | 33 x 41 | 13 | 111 | narrow neck |
| 49116024 | 250 | GL 25 | 43 x 51 | 17.5 | 159 | narrow neck |
| 49116030 | 500 | GL 25 | 53 x 68 | 17.5 | 180 | narrow neck |
| 49116036 | 1000 | GL 25 | 66 x 89 | 17.5 | 228 | narrow neck |
| 49116924 | 250 | GL 50 | 80 x 80 | 38.5 | 83 | wide neck |
| 49116930 | 500 | GL 65 | 90 x 90 | 50 | 120 | wide neck |
| 49116936 | 1000 | GL 65 | 90 x 90 | 50 | 168 | wide neck |



Bottles amber narrow neck

- + made of PE-LD
- + with screw cap
- + amber colour protects light sensitive materials against UV-light
- + for light-sensitive liquids



| Art.No. | Capacity (ml) | Thread | Ø (mm) | Neck inner Ø (mm) | Height without screw cap (mm) |
|----------|---------------|--------|--------|-------------------|-------------------------------|
| 49112018 | 100 | GL 18 | 45 | 13 | 102 |
| 49112024 | 250 | GL 25 | 60 | 18 | 138 |
| 49112030 | 500 | GL 25 | 75 | 18 | 169 |
| 49112036 | 1000 | GL 28 | 95 | 21 | 212 |

Spray bottles made of polyethylene

- + PE-LD
- + with spray attachment
- made of polypropylene
- + with rotatable and adjustable attachment

| Art.No. | Capacity (ml) | Thread |
|----------|---------------|--------|
| 49119010 | 1000 | GL 28 |
| 49119020 | 500 | GL 25 |



Dropping bottles made of PE-LD

- + with dropping tip
- + with attached cap

| Art.No. | Capacity (ml) | Thread | Diameter (mm) | Neck inner Ø (mm) | Height without stopper (mm) |
|----------|---------------|--------|---------------|-------------------|-----------------------------|
| 49103004 | 10 | GL 14 | 26 | 9 | 45.5 |
| 49103008 | 20 | GL 14 | 32 | 9 | 57 |
| 49103012 | 30 | GL 14 | 35 | 9 | 66 |
| 49103016 | 50 | GL 18 | 40 | 13 | 84 |
| 49103020 | 100 | GL 18 | 45 | 13 | 102 |
| 49103024 | 250 | GL 25 | 60 | 18 | 138 |
| 49103028 | 500 | GL 25 | 75 | 18 | 169 |



Bottles for drinking water analysis according to DIN EN ISO 5667-3

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).

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | PU (pcs) |
|----------|-----------------------|-------------------------|----------|
| 49125020 | 125 | 92 x 50 Ø | 350 |
| 49125024 | 250 | 115 x 50 Ø | 216 |
| 49125030 | 500 | 145 x 50 Ø | 120 |
| 49125036 | 1000 | 175 x 50 Ø | 72 |

- + with sodium thiosulphate
- + sterile, disposable
- + made of polypropylene
- + wide neck
- + quite transparent
- + square
- + with scale
- + for sampling of possibly chlorinated water
- + pre-dispensed 20 mg/1 l
- + safety closure, tight-fitting
- + minimum order quantity 1 PU



Bottles for drinking water analysis according to DIN EN ISO 5667-3

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).

| Art.No. | Capacity (ml) | Dimensions (mm) | PU (pcs) |
|----------|---------------|-----------------|----------|
| 49126020 | 125 | 92 x 50 Ø | 350 |
| 49126024 | 250 | 115 x 50 Ø | 216 |
| 49126030 | 500 | 145 x 50 Ø | 120 |
| 49126036 | 1000 | 175 x 50 Ø | 72 |

- + without sodium thiosulphate
- + sterile, disposable
- + made of polypropylene
- + wide neck
- + quite transparent
- + square
- + with scale
- + for sampling of open water, lakes, rivers etc.
- + pre-dispensed 20 mg/1 l
- + safety closure, tight-fitting,
- + minimum order quantity 1 PU



Aspirator bottles

narrow neck

- + made of polyethylene
- + transparent
- + with stopcock, handle and screw cap
- + complete with interchangeable, smooth-running stopcock made of PP with 3/4-inch connection



| Art.No. | Capacity (l) | Diameter (mm) | Neck inner Ø (mm) |
|-----------|--------------|---------------|-------------------|
| 49130005 | 5 | 170 | 52.5 |
| 49130010 | 10 | 210 | 52.5 |
| 49130025* | 25 | 280 | 79.5 |
| 49130050* | 50 | 350 | 79.5 |

* with two handles

Winkler oxygen bottles

- + for the determination of the oxygen dissolved in the water
- + made of soda-lime glass
- + with interchangeable stopper made of PE-HD
- + frosted label and precisely adjusted capacity

| Art.No. | Capacity (ml) | NS |
|----------|---------------|-------|
| 44267010 | 100 - 150 | 14/23 |
| 44267020 | 250 - 300 | 19/26 |



Spare stopcocks

for Art.No. 49130...

- + made of polypropylene
- + for aspirator bottles
- + complete with 3/4-inch connection and rubber ring



| Art.No. | Opening (mm) | Connection |
|----------|--------------|------------|
| 49131010 | 10 | 3/4" |

Brushes

for flasks and bottles

- + for narrow neck, round-shouldered and threaded bottles, etc.
- + with head bundle for better cleaning of the bottoms of bottles
- + with wire handle



| Art.No. | Total length (mm) | Brush Ø (mm) | Brush length (mm) | Material |
|----------|-------------------|--------------|-------------------|------------------|
| 41279010 | 420 | 55 | 100 | Natural bristles |
| 41279015 | 450 | 40 | 140 | Natural bristles |
| 41279020 | 500 | 55 | 150 | Natural bristles |
| 41279025 | 600 | 80 | 160 | Natural bristles |

Stopper holders

for Winkler bottles

- + nickel-plated
- + for bottles with nominal capacity 250 ml



| Art.No. | Material |
|----------|----------|
| 44268010 | Metal |

Laboratory Equipment

Test tubes

Test tubes



- + heavy wall
- + with rim
- + round bottom
- + packed of 100 pcs

| Art.No. | Dimensions approx. (mm) | Wall thickness approx. (mm) |
|----------|-------------------------|-----------------------------|
| 42788024 | 75 x 12 Ø | 1.0 |
| 42788051 | 160 x 16 Ø | 1.2 |
| 42788060 | 180 x 18 Ø | 1.2 |
| 42788063 | 180 x 20 Ø | 1.2 |
| 42788066 | 200 x 24 Ø | 1.2 |
| 42788078 | 200 x 30 Ø | 1.2 |
| 42788081 | 200 x 38 Ø | 1.4 |

Boro 3.3

Test tubes

AR-Glas®

Boro 7.0



- + heavy wall
- + rimless
- + round bottom

Density: 2.50 g/cm³

Lin. Coefficient of expansion: 9.1 · 10⁻⁶ K⁻¹

Thermal shock resistance: 30 K

Hydrolytic class: 3

Acid resistance class: 1

Alkali resistance class: 2

Test tubes

Boro 3.3

- + heavy wall
- + rimless
- + round bottom
- + packed of 100 pcs



| Art.No. | Dimensions approx. (mm) | Wall thickness approx. (mm) | Capacity approx. (ml) |
|----------|-------------------------|-----------------------------|-----------------------|
| 42787024 | 75 x 12 Ø | 1.0 | 4 |
| 42787051 | 160 x 16 Ø | 1.2 | 20 |

Test tubes with screw cap

- + round bottom
- + sterilisable
- + with PP screw cap GL 18
- + autoclavable to +121°C/+249.8°F
- + wall thickness: approx. 1.1 mm
- + packed of 100 pcs



| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Material |
|----------|-----------------------|-------------------------|------------|
| 42782045 | 12.5 | 100 x 16 Ø | Soda glass |
| 42782051 | 22.0 | 160 x 16 Ø | |

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Wall thickness approx. (mm) | PU (pcs) |
|-----------|-----------------------|-------------------------|-----------------------------|----------|
| 42775003 | 0.8 | 50 x 6 Ø | 0.65 | 500 |
| 42775009 | 0.6 | 35 x 6 Ø | 0.65 | 500 |
| 42775012 | 1.2 | 40 x 8 Ø | 0.7 | 500 |
| 42775015 | 4.7 | 80 x 10 Ø | 0.9 | 200 |
| 42775018 | 4.0 | 70 x 10 Ø | 0.9 | 100 |
| 42775021 | 4.5 | 100 x 10 Ø | 0.9 | 100 |
| 42775024* | 5.5 | 75 x 12 Ø | 0.6 | 2000 |
| 42775027 | 7.5 | 100 x 12 Ø | 0.7 | 100 |
| 42775030 | 9.5 | 100 x 14 Ø | 0.9 | 100 |
| 42775033 | 15.5 | 130 x 14 Ø | 0.9 | 100 |
| 42775039 | 10.2 | 85 x 15 Ø | 0.9 | 100 |
| 42775042 | 16.0 | 135 x 15 Ø | 0.9 | 100 |
| 42775045* | 14.0 | 100 x 16 Ø | 0.7 | 1000 |
| 42775051* | 22.0 | 160 x 16 Ø | 1.0 | 1000 |
| 42775060 | 33.0 | 180 x 18 Ø | 1.0 | 100 |

*made of borosilicate glass 7.0

Test tubes „ELKA“

AR-Glas®



- + can be used as a disposable test tube
- + round bottom
- + with rim
- + packed of 1000 pcs

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Wall thickness approx. (mm) |
|----------|-----------------------|-------------------------|-----------------------------|
| 42770021 | 5.5 | 100 x 9.5 Ø | 0.5 |
| 42770027 | 8.5 | 100 x 11.5 Ø | 0.5 |
| 42770033 | 15.5 | 130 x 14 Ø | 0.6 |
| 42770045 | 14.5 | 100 x 15.5 Ø | 0.5 |
| 42770048 | 18.5 | 120 x 15.5 Ø | 0.5 |
| 42770051 | 25.0 | 160 x 15.5 Ø | 0.5 |
| 42770057 | 31.5 | 160 x 17.25 Ø | 0.5 |
| 42770060 | 35.0 | 180 x 17.25 Ø | 0.5 |
| 42770063 | 47.0 | 180 x 19.5 Ø | 0.5 |
| 42770069 | 64.5 | 160 x 24.0 Ø | 0.8 |
| 42770072 | 70.4 | 200 x 24.0 Ø | 0.8 |
| 42770078 | 116.0 | 200 x 29.0 Ø | 0.8 |
| 42770251 | 25.0 | 160 x 15.5 Ø | 0.5 |

Test tubes disposable

- + round bottom
- + rimless



AR-Glas®

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Wall thickness approx. (mm) |
|----------|-----------------------|-------------------------|-----------------------------|
| 42769045 | 15 | 98 x 16 Ø | 0.5 |
| 42769051 | 25 | 160 x 16 Ø | 0.5 |

Test tubes graduated

- + with spout, round bottom
- + standard type
- + short line graduation
- + precisely calibrated
- + with rim
- + white graduation



AR-Glas®

| Art.No. | Division (ml) | Dimensions approx. (mm) | Wall thickness approx. (mm) |
|----------|---------------|-------------------------|-----------------------------|
| 42765005 | 5ml : 0.1 | 110 x 11.6 Ø | 0.7 |
| 42765010 | 10ml : 0.1 | 160 x 13 Ø | 1.0 |
| 42765020 | 20ml : 0.1 | 200 x 14.5 Ø | 0.9 |
| 42765025 | 25ml : 0.5 | 180 x 17.5 Ø | 1.0 |

Test tubes

- + round bottom
- + with rim
- + packed of 100 pcs

Boro 5.1



| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Wall thickness approx. (mm) |
|----------|-----------------------|-------------------------|-----------------------------|
| 42771015 | 2.5 | 70 x 8 Ø | 0.45 |
| 42771021 | 6 | 100 x 10 Ø | 0.45 |
| 42771027 | 8 | 100 x 12 Ø | 0.45 |
| 42771051 | 23 | 160 x 16 Ø | 0.6 |
| 42771060 | 37 | 180 x 18 Ø | 0.55 |
| 42771063 | 47 | 180 x 20 Ø | 0.55 |
| 42771075 | 27 | 120 x 20 Ø | 0.8 |

Flat bottom tubes for Globules



- + rimless
- + with transparent lamellar plug
- + tension-free
- + soda-lime glass / clear glass
- + packaged in pieces of 300

| Art.No. | Capacity approx. (ml) | Dimension approx. (mm) | Wall thickness approx. (mm) |
|----------|-----------------------|------------------------|-----------------------------|
| 42784010 | 1.8 | 52.5 x 8 Ø | 0.70 |

Flat bottom tubes

- + rimless
- + tension-free
- + Art.No. 42779065: AR-Glas®
- + Art.No. 42779070: Borosilicate glass 5.1

suitable stoppers:

Art.No. 42779065: Rubber stopper Art.No. 41590014;

Cork stopper Art.No. 41594014

Art.No. 42779070: Rubber stopper Art.No. 41590026;

Cork stopper Art.No. 41594022



| Art.No. | Capacity approx. (ml) | Dimension approx. (mm) | Wall thickness approx. (mm) |
|----------|-----------------------|------------------------|-----------------------------|
| 42779065 | 7.5 | 65 x 15 Ø | 0.9 |
| 42779070 | 18.5 | 70 x 22 Ø | 1.0 |

Glass vials amber glass, Type II/WBK II with snap-cap and flat bottom



- + snap-cap made of plastic (LDPE)
- + tension-free

| Art.No. | Dimensions approx. (mm) | Wall thickness approx. (mm) | Capacity approx. (ml) | PU (pcs) |
|----------|-------------------------|-----------------------------|-----------------------|----------|
| 42786004 | 30 x 19 Ø | 1.0 | 3 | 200 |
| 42786008 | 40 x 19 Ø | 1.0 | 5 | 200 |
| 42786012 | 45 x 22 Ø | 1.0 | 10 | 200 |
| 42786016 | 50 x 30 Ø | 1.0 | 25 | 200 |
| 42786020 | 75 x 28 Ø | 1.0 | 30 | 200 |
| 42786024 | 80 x 30 Ø | 1.0 | 40 | 200 |
| 42786028 | 100 x 30 Ø | 1.1 | 50 | 200 |
| 42786032 | 145 x 34 Ø | 1.1 | 100 | 100 |

Glass vials clear glass with snap-cap and flat bottom



- + snap-cap made of plastic (LDPE)
- + tension-free

| Art.No. | Dimensions approx. (mm) | Wall thickness approx. (mm) | Capacity approx. (ml) | HGB/WBK | PU (pcs) |
|----------|-------------------------|-----------------------------|-----------------------|-------------|----------|
| 42785004 | 30 x 19 Ø | 1.0 | 3 | HGB/WBK I | 200 |
| 42785008 | 40 x 19 Ø | 1.0 | 5 | HGB/WBK I | 200 |
| 42785012 | 45 x 22 Ø | 1.0 | 10 | HGB/WBK III | 200 |
| 42785016 | 50 x 30 Ø | 1.0 | 25 | HGB/WBK III | 200 |
| 42785020 | 75 x 28 Ø | 1.0 | 30 | HGB/WBK III | 200 |
| 42785024 | 80 x 30 Ø | 1.0 | 40 | HGB/WBK III | 200 |
| 42785028 | 100 x 30 Ø | 1.1 | 50 | HGB/WBK III | 200 |
| 42785032 | 145 x 34 Ø | 1.1 | 100 | HGB/WBK III | 100 |

Glass vials soda-lime glass
with plastic snap-cap and flat bottom

- + tension-free
- + minimum purchase quantity: 1 PU

| Art.No. | Dimensions approx. (mm) | Wall thickness approx. (mm) | Capacity approx. (ml) | PU (pcs) |
|----------|-------------------------|-----------------------------|-----------------------|----------|
| 42783004 | 36 x 11.5 Ø | 0.7 | 2 | 690 |
| 42783008 | 24 x 24 Ø | 1.0 | 5 | 154 |
| 42783012 | 34 x 24 Ø | 1.0 | 8 | 154 |
| 42783016 | 41 x 24 Ø | 1.0 | 10 | 154 |
| 42783020 | 48 x 26 Ø | 1.0 | 15 | 130 |
| 42783024 | 60 x 26 Ø | 1.0 | 20 | 130 |
| 42783028 | 72 x 28 Ø | 1.2 | 30 | 108 |
| 42783032 | 106 x 32 Ø | 1.2 | 60 | 84 |



Brushes for test tubes
with cotton end

- + with loop
- + with white cotton tuft
- + galvanised wire
- + minimum purchase quantity: 1 PU = 10 pieces

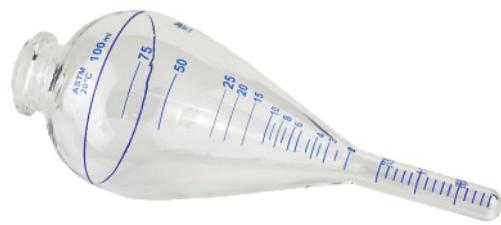


| Art.No. | Total length (mm) | Brush Ø (mm) | Brush length (mm) | for glasses of approx. (mm) | Wire (mm) | Bristles |
|----------|-------------------|--------------|-------------------|-----------------------------|-----------|----------------|
| 42760010 | 300 | 20 | 80 | 16-20 Ø | 1.6 | Dun bristles |
| 42760020 | 160 | 10 | 50 | 10-12 Ø | 1.0 | Dun bristles |
| 42760030 | 330 | 26 | 100 | 25 Ø | 1.6 | Dun bristles |
| 42760035 | 300 | 16 | 65 | 14-16 Ø | 1.6 | Nylon bristles |
| 42760037 | 300 | 20 | 65 | 16-20 Ø | 1.6 | Nylon bristles |
| 42760039 | 300 | 28 | 70 | 25-28 Ø | 1.6 | Nylon bristles |
| 42760041 | 300 | 38 | 75 | 34-38 Ø | 1.8 | Nylon bristles |
| 42760043 | 300 | 75 | 100 | 65-75 Ø | 2.5 | Nylon bristles |
| 42760115 | 150 | 8 | 50 | 8-12 Ø | 1.9 | Cotton |
| 42760120 | 220 | 15 | 50 | 13-15 Ø | 1.0 | Cotton |
| 42760130 | 330 | 30 | 90 | 26-30 Ø | 1.6 | Cotton |



Brushes for conical centrifuge tubes

| Art.No. | Total length (mm) | Brush length (mm) | Brush Ø (mm) | Wire (mm) |
|----------|-------------------|-------------------|---------------------|-----------|
| 40937010 | 270 | 80 | 14 upper - 13 below | 1.4 |



ASTM centrifuge tube pear shape

Boro 3.3

- + DIN 51793
- + with cylindrical base
- + short neck with rim

| Art.No. | Capacity (ml) | Graduation | Material | Dimensions (mm) |
|----------|---------------|------------|------------------------|-----------------|
| 40931010 | 160 | blue | Borosilicate glass 3.3 | 160 x 58 Ø |



Centrifuge tubes conical

AR-Glas®

- + rimless
- + graduated

| Art.No. | Graduation (ml) | Graduation | Dimensions (mm) |
|----------|-----------------|------------|-----------------|
| 40939002 | 15 : 0.1 | white | 112 x 17 Ø |



Centrifuge tubes short, conical bottom

AR-Glas®

- + rimless
- + ungraduated

| Art.No. | Capacity (ml) | Wall (mm) | Material | Dimensions (mm) |
|----------|---------------|-----------|-----------------------|-----------------|
| 40946001 | 10-15 | 1.2 | AR-Glas® (Soda glass) | 98 x 17 Ø |



Centrifuge tubes short, conical bottom

AR-Glas®

- + rimless
- + graduated

| Art.No. | Graduation (ml) | Graduation | Material | Dimensions (mm) |
|----------|-----------------|------------|-----------------------|-----------------|
| 40947001 | 10-15 : 0.2 | white | AR-Glas® (Soda glass) | 98 x 17 Ø |

Centrifuge tubes

round bottom

- + rimless
- + ungraduated



AR-Glas®

| Art.No. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 40950001 | 10-15 | 98 x 17 Ø |
| 40950002 | 10-15 | 108 x 17 Ø |
| 40950003 | 25-30 | 100 x 25 Ø |
| 40950016 | 10-12 | 100 x 16 Ø |

Centrifuge tubes

round bottom

- + rimless
- + white graduated
- + packed of 10 pieces



AR-Glas®

| Art.Nr. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 40951001 | 10-15 | 98 x 17 Ø |
| 40951002 | 10-15 | 107 x 17 Ø |
| 40951003 | 25 | 100 x 25 Ø |

Centrifuge tubes

round bottom

- + rimless
- + ungraduated
- + packed of 100 pieces



Boro 3.3

| Art.Nr. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 40958016 | 10-12 | 100 x 16 Ø |

Centrifuge tubes

with screw cap

AR-Glas®



- + conical bottom
- + ungraduated
- + incl. screw cap
- + packed of 100 pieces

The screw caps are
gas-sterilisable
up to +121°C/+249.8°F
using Ethylene Oxide.

| | |
|--------------------|------------|
| Art.No. | 40970010 |
| Capacity (ml) | 10-15 |
| Dimensions (mm) | 112 x 17 Ø |
| Total length* (mm) | 115 |
| Wall (mm) | 1.1 |
| Thread | GL 14 |
| Material | AR-Glas® |

*incl. screw cap

Centrifuge tubes

with screw cap

AR-Glas®



- + round bottom
- + ungraduated
- + incl. screw cap
- + packed of 100 pieces

The screw caps are
gas-sterilisable
up to +121°C/+249.8°F
using Ethylene Oxide.

| | |
|-----------------|------------|
| Art.No. | 40976010 |
| Capacity (ml) | 10-15 |
| Dimensions (mm) | 110 x 17 Ø |
| Wall (mm) | 1.0 |
| Thread | GL 14 |
| Material | AR-Glas® |

Rubber stoppers without holes

Density p: 1,175 g/cm³

Tensile strength: >10 N/mm²

Elongation at break: >690 %

Impact elasticity: >55 %

Material: natural rubber

Colour: grey

Temperature resistance:

-30 to +60°C/-22 to 140°F



- + DIN 12871
- + Hardness 40 Shore A
- + free from phthalates

| Art.No. | Bottom Ø approx. (mm) | Upper Ø approx. (mm) | Height approx. (mm) |
|----------|-----------------------|----------------------|---------------------|
| 41590002 | 4 | 8 | 20 |
| 41590005 | 5 | 9 | 20 |
| 41590008 | 8 | 12 | 20 |
| 41590011 | 9 | 12 | 19 |
| 41590014 | 10.5 | 14.5 | 20 |
| 41590017 | 12.5 | 16.5 | 20 |
| 41590020 | 14 | 18 | 20 |
| 41590023 | 17 | 22 | 25 |
| 41590026 | 18 | 24 | 30 |
| 41590029 | 21 | 27 | 30 |
| 41590032 | 26 | 32 | 30 |

| Art.No. | Bottom Ø approx. (mm) | Upper Ø approx. (mm) | Height approx. (mm) |
|----------|-----------------------|----------------------|---------------------|
| 41590035 | 29 | 35 | 30 |
| 41590038 | 31 | 38 | 35 |
| 41590041 | 34 | 41 | 35 |
| 41590044 | 36 | 44 | 40 |
| 41590047 | 41 | 49 | 40 |
| 41590050 | 47 | 55 | 40 |
| 41590053 | 50.5 | 59.5 | 45 |
| 41590056 | 56 | 65 | 45 |
| 41590059 | 64.5 | 75.5 | 55 |
| 41590062 | 71 | 83 | 60 |
| 41590065 | 79 | 92 | 65 |

Rubber stoppers



- + suitable for tubes with a Ø of 17 mm (10-15 ml)
- + not autoclavable

- + DIN 12871
- + Hardness 40 Shore A
- + free from phthalates
- + packed of 10 pieces

| Art.No. | Dimensions (mm) | Material |
|----------|------------------|--------------------|
| 40955010 | 12.5 x 16.5 x 20 | Natural rubber mix |

Stoppers with standard joint made of polyethylene (PE-HD)

- + resistant to acid and alkali
- + octagonal grip, hollow



| Art.No. | NS |
|----------|-------|
| 42990007 | 7/16 |
| 42990010 | 10/19 |
| 42990012 | 12/21 |
| 42990014 | 14/23 |
| 42990019 | 19/26 |
| 42990024 | 24/29 |
| 42990029 | 29/32 |
| 42990034 | 34/35 |
| 42990045 | 45/40 |

Stoppers clear glass hexagonal, hollow glass

- + with hexagonal grip
- + DIN 12252



| Art.No. | NS |
|----------|-------|
| 42992007 | 7/16 |
| 42992010 | 10/19 |
| 42992012 | 12/21 |
| 42992014 | 14/23 |
| 42992019 | 19/26 |
| 42992024 | 24/29 |
| 42992029 | 29/32 |
| 42992034 | 34/35 |
| 42992045 | 45/40 |

Kapsenberg® test tube caps

- + made of aluminium
- + with handle

| Art.No. | for tubes up to approx. (mm) | Colour |
|----------|------------------------------|--------|
| 42776051 | 16 Ø | silver |



Silicone stoppers without holes



- + DIN 12871
- + transparent
- + Hardness 50 Shore A
- + max. temperature of use -50°C/-58°F to +180°C/356°F (short-term up to +240°C/464°F)
- + autoclavable at +121°C/249.8°F (2 bar)

Cork stoppers

| Art.No. | Height approx. (mm) | Bottom Ø approx. (mm) | Upper Ø approx. (mm) |
|----------|---------------------|-----------------------|----------------------|
| 41594009 | 17 | 6 | 9 |
| 41594013 | 22 | 10 | 13 |
| 41594014 | 22 | 11 | 14 |
| 41594015 | 22 | 12 | 15 |
| 41594016 | 22 | 13 | 16 |
| 41594018 | 22 | 15 | 18 |
| 41594019 | 23 | 16 | 19 |
| 41594020 | 26 | 17 | 20 |
| 41594022 | 26 | 18 | 22 |
| 41594023 | 26 | 19 | 23 |
| 41594026 | 27 | 22 | 26 |
| 41594030 | 27 | 26 | 30 |
| 41594036 | 27 | 32 | 36 |
| 41594040 | 27 | 36 | 40 |



- + high quality
- + low porosity

| Art.No. | Bottom Ø approx. (mm) | Upper Ø approx. (mm) | Height approx. (mm) |
|----------|-----------------------|----------------------|---------------------|
| 41583004 | 5 | 9 | 20 |
| 41583008 | 10,5 | 14,5 | 20 |
| 41583012 | 12,5 | 16,5 | 20 |
| 41583016 | 14 | 18 | 20 |
| 41583020 | 17 | 22 | 25 |
| 41583024 | 18 | 24 | 30 |
| 41583028 | 21 | 27 | 30 |
| 41583032 | 26 | 32 | 30 |
| 41583036 | 29 | 35 | 30 |
| 41583040 | 31 | 38 | 35 |
| 41583044 | 36 | 44 | 40 |
| 41583048 | 41 | 49 | 40 |
| 41583052 | 47 | 55 | 40 |
| 41583056 | 64,5 | 75,5 | 55 |
| 41583060 | 8 | 12 | 20 |

Stoppers made of polyethylene

BASIC

- + with standard joint
- + packed in pieces of 100



| Art.No. | NS |
|----------|-------|
| 52990010 | 10/19 |
| 52990012 | 12/21 |
| 52990014 | 14/23 |
| 52990019 | 19/26 |
| 52990024 | 24/29 |
| 52990029 | 29/32 |
| 52990034 | 34/35 |
| 52990045 | 45/40 |

Stoppers clear glass hexagonal, hollow glass

BASIC Boro 3.3

- + with standard joint
- + DIN 12252
- + packed in pieces of 100



| Art.No. | NS |
|----------|-------|
| 52992010 | 10/19 |
| 52992012 | 12/21 |
| 52992014 | 14/23 |
| 52992019 | 19/26 |
| 52992024 | 24/29 |
| 52992029 | 29/32 |
| 52992034 | 34/35 |
| 52992045 | 45/40 |

Laboratory Equipment

Stoppers, aid & test tube racks

Stoppers amber glass hexagonal, hollow glass

BASIC

Boro
3.3

- + with standard joint
- + DIN 12252
- + packed of 100 pieces

| Art.No. | NS |
|----------|-------|
| 52994010 | 10/19 |
| 52994012 | 12/21 |
| 52994014 | 14/23 |
| 52994019 | 19/26 |
| 52994024 | 24/29 |
| 52994029 | 29/32 |
| 52994034 | 34/35 |
| 52994045 | 45/40 |



Cork borer set made of brass tubing

- + nickel-plated
- + with handles
- + tube wall 0.4 mm thick



| Art.No. | for holes of Ø approx. (mm) | Set of (pcs) | Weight approx. (g) |
|----------|--------------------------------|--------------|-----------------------|
| 41593006 | 5 - 11 | 6 | 170 |
| 41593012 | 5 - 19 | 9 | 400 |

Automatic tilting pipettes

Boro
3.3



- + with curved spout
- + without bottle

| Art.No. | Capacity (ml) | NS |
|----------|------------------|-------|
| 41877003 | 5 | 29/32 |
| 41877006 | 10 | 29/32 |
| 41877009 | 20 | 29/32 |
| 41877012 | 25 | 29/32 |
| 41877015 | 50 | 29/32 |
| 41877018 | 100 | 29/32 |

Draining racks made of wire, tall



- + PE coated wire
- + white
- + suitable for hanging and standing
- + for 60 test tubes and 5 flasks
- + with plastic drip tray

| Art.No. | Dimensions approx. (mm) |
|----------|----------------------------|
| 49027010 | 420 x 170 x 610 |

Draining racks made of wire, small



- + PE coated wire
- + white
- + suitable for hanging and standing
- + for 12 test tubes and 11 flasks
- + with plastic drip tray

| Art.No. | Dimensions approx. (mm) |
|----------|----------------------------|
| 49028010 | 420 x 170 x 300 |

Test tube holder made of wood

- + with sturdy spring made of stainless steel



| Art.No. | Length (mm) | for glasses up to (mm) | Material |
|----------|----------------|---------------------------|------------|
| 42811010 | 175 | 30 Ø | Beech wood |

Test tube holder

made of wood

+ with stable spring made of stainless steel



| Art.No. | Surface | for tubes up to approx. (mm) | Material | Dimensions approx. (mm) |
|----------|------------|------------------------------|------------|-------------------------|
| 42810010 | Galvanised | 20 Ø | Beech wood | 175 x 10 x 20 |

Test tube racks

made of wire



- + with white plastic-coated wire
- + without pins
- + heat resistance up to approx. 60°C/140°F
- + not autoclavable
- + for test tubes or centrifuge tubes

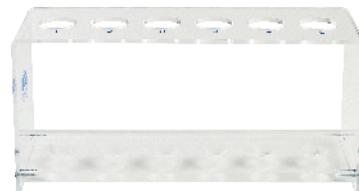


| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) |
|----------|-------------------|-------------------------|------------------------------|
| 42815012 | 12 tubes (3 x 4) | 95 x 70 x 80 | 17 Ø |
| 42815024 | 24 tubes (4 x 6) | 135 x 90 x 80 | 17 Ø |
| 42815248 | 48 tubes (4 x 12) | 210 x 77 x 40 | 12 Ø |

Test tube racks

made of Plexiglas®

- + with numbered holes
- + universal use in the laboratories
- + one level
- + without pins



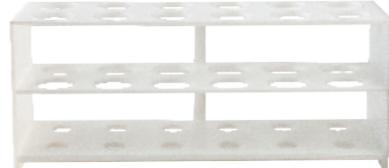
| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) |
|-----------|-------------------|-------------------------|------------------------------|
| 42808006 | 6 tubes | 165 x 55 x 75 | 18 Ø |
| 42808012 | 12 tubes | 164 x 55 x 76 | 18 Ø |
| 42808024 | 24 tubes | 220 x 79 x 80 | 18 Ø |
| 42808033* | 33 tubes (3 x 11) | 310 x 80 x 80 | 18 Ø |

*Takata rack

Test tube racks made of polystyrene

- + two levels, without pins
- + with graduation

| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) | Colour | Holes Ø (mm) |
|----------|------------------|-------------------------|------------------------------|---------|--------------|
| 42814010 | 12 tubes (2 x 6) | 193 x 61 x 82 | 20 Ø | natural | 20 |



Racks for sample tubes Multistand Plus made of polypropylene

+ autoclavable at 121°C/249.8°F

The frames have a spring holder so the tubes are held securely in place.

| Art.No. | for | for tubes up to approx. (mm) | Colour |
|----------|-------------------|------------------------------|--------|
| 42812010 | 50 tubes (5 x 10) | 12 - 18 Ø | blue |



Laboratory Equipment

Test tube racks



Test tube racks made of wood

+ varnished
+ water-resistant
+ made of beech wood

| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) | Pins | Levels |
|----------|----------|-------------------------|------------------------------|---------|--------|
| 42794001 | 6 tubes | 230 x 55 x 120 | 22 Ø | without | 1 |
| 42794002 | 12 tubes | 230 x 75 x 200 | 22 Ø | 6 | 2 |
| 42794013 | 6 tubes | 270 x 55 x 180 | 30 Ø | without | 1 |



Test tube racks made of wood

+ varnished
+ water-resistant
+ chemical-free
+ made of beech wood

| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) | Pins | Levels |
|----------|---------|-------------------------|------------------------------|---------|--------|
| 42795010 | 6 tubes | 200 x 60 x 114 | 18 Ø | without | 1 |



Test tube racks made of wood

+ varnished
+ water-resistant
+ chemical-free
+ made of beech wood

| Art.No. | for | Dimensions approx. (mm) | for tubes up to approx. (mm) | Pins | Levels |
|----------|----------|-------------------------|------------------------------|---------|--------|
| 42796010 | 12 tubes | 200 x 80 x 180 | 18 Ø | without | 2 |



Test tube racks made of wood

+ varnished
+ water-resistant
+ chemical-free
+ made of beech wood

| Art.No. | for | for tubes up to approx. (mm) | Pins | Levels |
|----------|---------|------------------------------|------|--------|
| 42800010 | 6 tubes | 18 Ø | 6 | 1 |



Test tube racks made of wood

+ varnished
+ water-resistant
+ chemical-free
+ made of beech wood

| Art.No. | for | for tubes up to approx. (mm) | Pins | Levels |
|----------|----------|------------------------------|------|--------|
| 42801010 | 12 tubes | 18 Ø | 6 | 2 |

Melting point determination apparatus
according to Thiele

Boro
3.3



| Art.No. | Dimension approx. (mm) |
|----------|------------------------|
| 43004010 | 120 x 20 Ø |

Melting point determination tubes
open on both sides

AR-Glas®

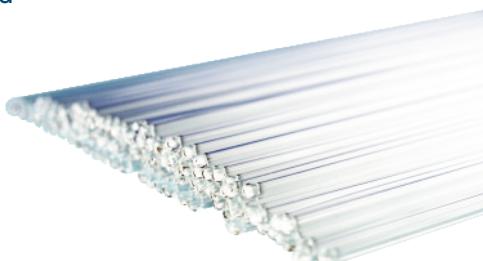


| Art.No. | Dimension approx. (mm) |
|----------|------------------------|
| 43005010 | 90 x 1.5 Ø |

+ packed in pieces of 100
in a glass tube

Melting point determination tubes
closed end

AR-Glas®



| Art.No. | Dimension approx. (mm) |
|----------|------------------------|
| 43006010 | 90 x 1.5 Ø |

+ packed in pieces of 100
in a glass tube

Crucible tongs



| Art.No. | Length approx. (mm) |
|----------|---------------------|
| 43010010 | 220 |

+ nickel-chromium steel
+ stainless
+ double bent

Magnesia grooves DIN 40680

- + thermal resistance approx. 560 K
- + for laboratory test samples and the incineration of small quantities of substances
- + packed in pieces of 25



| Art.No. | Length approx. (mm) | Width approx. (mm) |
|----------|---------------------|--------------------|
| 42065010 | 100 | 9 |

Magnesia rods DIN 40680

- + thermal resistance approx. 560 K
- + permissible deflection: 0.5 % of the maximum length
- + packed in pieces of 25



| Art.No. | Length approx. (mm) | Diameter approx. (mm) |
|----------|---------------------|-----------------------|
| 42066010 | 140 | 1.8 |

Vacuum filter set

BASIC Boro 3.3

- + scaled funnels simplify dosing and analysis
- + with fritted glass filter base
- + anodised aluminium spring clamp
- + the filter size is 47mm



Supplied with:

- + support base with sintered disc
- + connecting clamp
- + 1000 ml flask
- + vacuum connection side arm
- + filter funnel of 300 ml volume capacity

| Art.No. | Funnel capacity approx. (mm) | PU (pcs) |
|------------------------------|------------------------------|----------|
| 50647002 | 300 | 1 |
| Filtration base approx. (mm) | Capacity approx. (ml) | NS |
| 47 | 1000 | 45/46 |

Funnels Büchner

BASIC Boro 3.3

Suitable for qualitative inorganic analysis and preparative chemistry



| Art.No. | Capacity approx. (ml) | Disc Ø approx. (mm) | Porosity | PU (pcs) |
|----------|-----------------------|---------------------|----------|----------|
| 50645006 | 50 | 40 | G-1 | 12 |
| 50645007 | 50 | 40 | G-2 | 12 |
| 50645008 | 50 | 40 | G-3 | 12 |
| 50645009 | 50 | 40 | G-4 | 12 |
| 50645012 | 75 | 40 | G-1 | 12 |
| 50645013 | 75 | 40 | G-2 | 12 |
| 50645014 | 75 | 40 | G-3 | 12 |
| 50645015 | 75 | 40 | G-4 | 12 |
| 50645022 | 125 | 65 | G-1 | 6 |
| 50645023 | 125 | 65 | G-2 | 6 |
| 50645024 | 125 | 65 | G-3 | 6 |
| 50645025 | 125 | 65 | G-4 | 6 |
| 50645032 | 500 | 90 | G-1 | 2 |
| 50645033 | 500 | 90 | G-2 | 2 |
| 50645034 | 500 | 90 | G-3 | 2 |
| 50645035 | 500 | 90 | G-4 | 2 |

Membrane filtration assembly

BASIC

- + supplied without flask & clamp



| Art.No. | Filtration base approx. (mm) | Capacity (ml) | Funnel capacity approx. (ml) | PU (pcs) |
|----------|------------------------------|---------------|------------------------------|----------|
| 50650003 | B 24 | 300 | 47 | 1 |

Wire gauze

BASIC

- + made of stainless steel
- + with a ceramic circular plate at the center
- + close mesh with folded edges
- + free of hazardous materials



| Art.No. | Dimensions approx. (mm) | PU (pcs) |
|----------|-------------------------|----------|
| 51071012 | 120 x 120 | 10 |
| 51071016 | 160 x 160 | 10 |
| 51071020 | 200 x 200 | 10 |

Crucibles Gooch

BASIC Boro 3.3

- + with an acid resistant sintered glass disc for filtration
- + suitable for metal casting and analysis



| Art.No. | Capacity approx. (ml) | Disc Ø approx. (mm) | Porosity | PU (pcs) |
|----------|-----------------------|---------------------|----------|----------|
| 50628006 | 30 | 30 | G-1 | 10 |
| 50628007 | | | G-2 | 10 |
| 50628008 | | | G-3 | 10 |
| 50628009 | | | G-4 | 10 |
| 50628011 | 50 | 40 | G-1 | 10 |
| 50628012 | | | G-2 | 10 |
| 50628013 | | | G-3 | 10 |
| 50628014 | | | G-4 | 10 |

All-gas Bunsen burners

+ with air regulation, needle valve and adjustable nozzle

The following hoses are suitable for

connection to the tubing olive:

+ inner hose Ø: 10 mm

+ outer hose Ø: 14 mm

The burner can be used for methane.

Gas pressure range: 18 - 25 mbar

| | |
|---------------------------|----------|
| Art.No. | 41385010 |
| Burner tube Ø (mm) | 13 |
| Height approx. (mm) | 170 |
| Base Ø approx. (mm) | 80 |
| Head Ø approx. (mm) | 17 |
| Consumption approx. (l/h) | 110 |
| Power approx. (kW) | 1.20 |
| Weight (g) | 270 |
| Temp (°C) | 1460 |



Bunsen burners

+ with air regulation

+ DIN type

Gas pressure range for propane gas burners:

47.5 - 57.5 mbar

Gas pressure range for natural gas burners:

18 - 25 mbar



| | | |
|---------------------------|-------------|------------------------|
| Art.No. | 41390001 | 41390002 |
| Burner tube Ø (mm) | 14 | 14 |
| Height approx. (mm) | 155 | 155 |
| Base Ø approx. (mm) | 75 | 75 |
| Head Ø approx. (mm) | 17 | 17 |
| Consumption approx. (l/h) | 110 | 55 |
| Power approx. (kW) | 1.25 | 1.35 |
| Weight (g) | 210 | 210 |
| Temp (°C) | 1500 | 1540 |
| for | Natural gas | Bottle gas/ Butane gas |

Bunsen burners for bottle gas/ butane gas

+ with stopcock and pilot flame

+ with air regulation

Gas pressure range: 47.5 - 57.5 mbar

| | |
|---------------------|------------------------|
| Art.No. | 41391002 |
| Burner tube Ø (mm) | 14 |
| Height approx. (mm) | 155 |
| Base Ø approx. (mm) | 75 |
| Head Ø approx. (mm) | 17 |
| Consumption (l/h) | 50 |
| Power approx. (kW) | 1.25 |
| Weight (g) | 225 |
| Temp (°C) | 1520 |
| for | Bottle gas/ Butane gas |



Gas burners according to Teclu

+ with stopcock and pilot flame

+ with air regulation

Gas pressure range for propane gas burners:

47.5 - 57.5 mbar

Gas pressure range for natural gas burners:

18 - 25 mbar



| | | |
|----------------------|-------------|------------------------|
| Art.No. | 41393001 | 41393002 |
| Burner tube Ø (mm) | 14 | 14 |
| Height approx. (mm) | 155 | 155 |
| Base Ø approx. (mm) | 80 | 80 |
| Head Ø approx. (mm)) | 17 | 17 |
| Consumption (l/h) | 110 | 55 |
| Power approx. (kW) | 1.25 | 1.5 |
| Weight (g) | 265 | 265 |
| Temp (°C) | 1530 | 1550 |
| for | Natural gas | Bottle gas/ Butane gas |

Bunsen burners LABOGAZ® for cartridges with safety valve

Cartridge may always be disconnected easily,
provided that burner is not operating.

The burners Art.No. 41395010 and cartridges Art.No. 41395001
are incompatible with burners Art.No. 41396010.

UN 2037, class 2

Safety data sheet comes with the item.



| Art.No. | Dimensions approx. (mm) | Variant | Capacity approx. (g) | Weight approx. (g) |
|----------|-------------------------|-----------|----------------------|--------------------|
| 41395001 | 14 x 11 Ø | Cartridge | 450 | 710 |
| 41395010 | 24 incl. cartridge | Burner | / | 380 |

Wire triangle with smooth clay tubes

+ made of galvanised iron wire



| Art.No. | Length (mm) |
|----------|-------------|
| 41065004 | 40 |
| 41065006 | 60 |
| 41065008 | 80 |

Cartridges with 190g butane gas for LABOGAZ® Bunsen burners Art.No. 41396010



+ according to EN 417:2012

+ Mixing ratio butane/propane: 80/20

+ Flammable gas - Category 1

| Art.No. | Capacity approx. (ml) | Dimensions approx. (mm) | Weight approx. (g) |
|----------|-----------------------|-------------------------|--------------------|
| 41396020 | 314 | 90 x 90 Ø | 190 |

Bunsen burners LABOGAZ®



- + without cartridge
- + with Clip & Go mounting system
- + direct butane labelling

The device can be removed from the cartridge even
if the cartridge is not completely empty.

For use with cartridge Art.No. 41396020.

| Art.No. | Dimensions approx. (mm) | Weight approx. (g) | Gas consumption |
|----------|-------------------------|--------------------|-----------------|
| 41396010 | 9 x 10 x 19.5 | 380 | 55 g/h |

Tripod - short made of iron

- + galvanised
- + edges neatly polished (no sharp edges)
- + holding ring with 140 mm diameter
- offers practical use of ceramic triangles and wire gauzes



Tripod - tall made of iron

- + galvanised
- + edges neatly polished (no sharp edges)



Spirit lamps with side filler tube and wick



| Art.No. | Capacity approx. (ml) | Material |
|----------|-----------------------|-----------------|
| 43033010 | 60 | Stainless steel |

Boiling flasks flat bottom, narrow neck

BASIC Boro 3.3

- + DIN ISO 1773
- + white graduation
- + with matt area for marking
- + beaded rim
- + uniform wall thickness



| Art.No. | Capacity (ml) | Dimensions approx. (mm) | Neck Ø (mm) | PU (pcs) |
|----------|---------------|-------------------------|-------------|----------|
| 51924024 | 50 | 95 x 51 Ø | 22 | 10 |
| 51924030 | 100 | 110 x 64 Ø | 22 | 10 |
| 51924036 | 250 | 144 x 85 Ø | 34 | 10 |
| 51924042 | 500 | 168 x 105 Ø | 34 | 10 |
| 51924048 | 1000 | 200 x 131 Ø | 42 | 10 |
| 51924054 | 2000 | 240 x 166 Ø | 50 | 6 |
| 51924058 | 4000 | 290 x 207 Ø | 50 | 1 |
| 51924060 | 6000 | 330 x 236 Ø | 50 | 1 |
| 51924062 | 10000 | 380 x 279 Ø | 65 | 1 |

Boiling flasks

round bottom,
narrow neck

- + DIN ISO 1773
- + white graduation
- + with matt area for marking
- + beaded rim
- + uniform wall thickness
- + ideal for heating



BASIC Boro 3.3

| Art.No. | Capacity (ml) | Neck Ø (mm) | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|-------------|-------------------------|----------|
| 51925024 | 50 | 22 | 95 x 51 Ø | 10 |
| 51925030 | 100 | 26 | 110 x 64 Ø | 10 |
| 51925036 | 250 | 34 | 144 x 85 Ø | 10 |
| 51925042 | 500 | 34 | 168 x 105 Ø | 10 |
| 51925048 | 1000 | 42 | 200 x 131 Ø | 10 |
| 51925054 | 2000 | 50 | 240 x 166 Ø | 6 |
| 51925060 | 4000 | 50 | 290 x 207 Ø | 1 |
| 51925066 | 6000 | 50 | 330 x 236 Ø | 1 |
| 51925072 | 10000 | 65 | 380 x 279 Ø | 1 |

Boiling flasks

round bottom,
with standard grinding

- + DIN EN ISO 4797
- + white graduation
- + uniform wall thickness
- + round bottom
- + ideal for heating
- + with matt area for marking
- + generally used in distillation and extraction processes



BASIC Boro 3.3

| Art.No. | Capacity (ml) | NS | PU (pcs) |
|----------|---------------|-------|----------|
| 51913008 | 50 | 14/23 | 10 |
| 51913009 | 50 | 19/26 | 10 |
| 51913010 | 50 | 29/32 | 10 |
| 51913011 | 50 | 24/29 | 10 |
| 51913012 | 100 | 29/32 | 10 |
| 51913014 | 100 | 14/23 | 10 |
| 51913015 | 100 | 19/26 | 10 |
| 51913016 | 100 | 24/29 | 10 |
| 51913018 | 250 | 29/32 | 10 |
| 51913019 | 250 | 19/26 | 10 |
| 51913020 | 250 | 24/29 | 10 |
| 51913024 | 500 | 29/32 | 10 |
| 51913025 | 500 | 24/29 | 10 |
| 51913030 | 1000 | 29/32 | 10 |
| 51913031 | 1000 | 24/29 | 10 |
| 51913036 | 2000 | 29/32 | 6 |
| 51913041 | 4000 | 29/32 | 1 |

Boiling flasks

flat bottom,
with standard grinding

- + DIN EN ISO 4797
- + white graduation
- + flat bottom
- + short neck
- + ideal for boiling processes
- + with matt area for marking



BASIC Boro 3.3

| Art.No. | Capacity (ml) | NS | Height approx. (mm) | PU (pcs) |
|----------|---------------|-------|---------------------|----------|
| 51911003 | 50 | 14/23 | 85 | 10 |
| 51911004 | 50 | 19/26 | 85 | 10 |
| 51911005 | 50 | 24/29 | 85 | 10 |
| 51911006 | 50 | 29/32 | 85 | 10 |
| 51911012 | 100 | 29/32 | 103 | 10 |
| 51911014 | 100 | 14/23 | 103 | 10 |
| 51911015 | 100 | 19/26 | 103 | 10 |
| 51911016 | 250 | 24/29 | 125 | 10 |
| 51911017 | 250 | 19/26 | 125 | 10 |
| 51911018 | 250 | 29/32 | 125 | 10 |
| 51911024 | 500 | 29/32 | 145 | 10 |
| 51911030 | 1000 | 29/32 | 175 | 10 |
| 51911036 | 2000 | 29/32 | 210 | 10 |
| 51911040 | 4000 | 29/32 | 255 | 1 |

Round-bottom flasks

with standard ground joint,
without stopper



- + medium length
- + with NS joint size labelling
- + white graduation
- + with matt area for marking

PREMIUM
Boro 3.3

| Art.No. | Capacity (ml) | NS |
|----------|---------------|-------|
| 41913006 | 50 | 29/32 |
| 41913008 | 50 | 14/23 |
| 41913010 | 50 | 19/26 |
| 41913012 | 100 | 29/32 |
| 41913014 | 100 | 14/23 |
| 41913015 | 100 | 19/26 |
| 41913018 | 250 | 29/32 |
| 41913024 | 500 | 29/32 |
| 41913030 | 1000 | 29/32 |
| 41913036 | 2000 | 29/32 |

Flasks

with standard ground joint,
without stopper

PREMIUM
Boro 3.3


- + medium length
- + with NS joint size labelling
- + white graduation
- + with matt area for marking

Flasks

for rotary evaporator,
with round bottom

BASIC
Boro 3.3


- + white graduation
- + with matt area for marking
- + used in the rotary evaporator
- + optimal for heating sensitive solvent/solute combinations

| Art.No. | Capacity (ml) | NS | Dimensions approx. (mm) |
|----------|---------------|-------|-------------------------|
| 41911006 | 50 | 29/32 | 90 x 51 Ø |
| 41911012 | 100 | 29/32 | 105 x 64 Ø |
| 41911018 | 250 | 29/32 | 138 x 85 Ø |
| 41911024 | 500 | 29/32 | 163 x 105 Ø |
| 41911030 | 1000 | 29/32 | 190 x 131 Ø |
| 41911036 | 2000 | 29/32 | 250 x 166 Ø |

| Art.No. | Capacity (ml) | NS | Diameter approx. (mm) | PU (pcs) |
|----------|---------------|-------|-----------------------|----------|
| 51920024 | 25 | 19/26 | 40 | 10 |
| 51920048 | 50 | 19/26 | 50 | 10 |
| 51920060 | 100 | 29/32 | 100 | 10 |
| 51920064 | 100 | 19/26 | 100 | 6 |
| 51920072 | 250 | 29/32 | 135 | 10 |
| 51920076 | 500 | 29/32 | 160 | 10 |
| 51920080 | 1000 | 29/32 | 190 | 10 |

Laboratory Equipment

Boiling flasks

Boiling flasks

with ground joint,
with angled side neck 25°

BASIC

Boro 3.3

- + DIN 12383
- + with matt area for marking
- + with sockets



| Art.No. | Capacity (ml) | NS | PU (pcs) |
|----------|---------------|-------|----------|
| 51905022 | 100 | 14/23 | 2 |

Boiling flasks

with ground joint

BASIC

Boro 3.3

- + DIN 12383
- + packed in pieces of 10
- + with matt area for marking
- + used in the rotary evaporator
- + ideal for carrying out reactions on a small scale

| Art.No. | Capacity (ml) | NS | Height approx. (mm) |
|----------|---------------|-------|---------------------|
| 51921012 | 10 | 14/23 | 75 |
| 51921018 | 25 | 14/23 | 90 |
| 51921024 | 50 | 14/23 | 110 |
| 51921027 | 50 | 29/32 | 110 |
| 51921028 | 100 | 14/23 | 125 |
| 51921029 | 100 | 29/32 | 125 |
| 51921033 | 250 | 14/23 | 145 |
| 51921034 | 250 | 19/26 | 145 |

Kjeldahl flasks

PREMIUM

Boro 3.3

- + DIN 12360
- + with rim
- + without ground joint
- + with matt area for marking



| Art.No. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 41870018 | 250 | 270 x 81/34 Ø |
| 41870024 | 500 | 300 x 101/34 Ø |

Kjeldahl flasks

with ground joint

BASIC

Boro 3.3

- + DIN 12360
- + with matt area for marking
- + optimal for the determination of nitrogen/protein



| Art.No. | Capacity (ml) | NS | Dimensions approx. (mm) | PU (pcs) |
|----------|---------------|-------|-------------------------|----------|
| 51871030 | 100 | 19/26 | 210 x 61 Ø | 2 |
| 51871036 | 250 | 29/32 | 213 x 61 Ø | 2 |
| 51871042 | 500 | 29/32 | 300 x 101 Ø | 2 |
| 51871044 | 750 | 29/32 | 340 x 113 Ø | 2 |
| 51871048 | 1000 | 29/32 | 375 x 126 Ø | 2 |

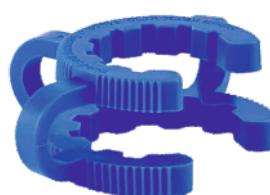
Cork rings
for round bottom flasks



| Art.No. | Upper outer Ø (mm) | Upper inner Ø (mm) | Lower inner Ø (mm) | for round bottom flasks | Height (mm) |
|----------|-----------------------|-----------------------|-----------------------|----------------------------|----------------|
| 41914001 | 80 | 55 | 30 | 10 - 100 ml | 30 |
| 41914002 | 110 | 85 | 60 | 250 - 1000 ml | 30 |
| 41914003 | 140 | 110 | 90 | 2000 ml | 30 |

Keck™ Clips made of POM, for conical ground joints

- + clips are marked with the appropriate joint size and are colour coded for easier identification
- + improves safety in the laboratory as the glass surface of the joint is not scratched by the plastic material
- + easy, safe and quick to fit



| Art.No. | for socket size | Colour |
|----------|--------------------|--------|
| 42386010 | 10/19 | green |
| 42386012 | 12/21 | violet |
| 42386014 | 14/23 | yellow |
| 42386019 | 19/26 | blue |
| 42386024 | 24/29 | green |
| 42386029 | 29/32 | red |
| 42386034 | 34/35 | orange |
| 42386040 | 40/38 | yellow |
| 42386045 | 45/40 | brown |

Sleeves
made of PTFE, for ground joints and stoppers

- + Excellent chemical resistance at temperatures from -200°C to +260°C
- + for NS cores and NS glass plugs
- + self-lubricating



| Art.No. | for socket size | Wall (mm) |
|----------|--------------------|--------------|
| 42388010 | 14/23 | 0.05 |
| 42388019 | 19/26 | 0.05 |
| 42388024 | 24/29 | 0.05 |
| 42388029 | 29/32 | 0.05 |
| 42388045 | 45/40 | 0.05 |

Desiccator porcelain plate

- + with many small holes
- + made of porcelain
- + without bases



| Art.No. | suitable for desiccator with upper inner Ø approx. (mm) | Outer Ø approx. (mm) |
|----------|--|-------------------------|
| 41175010 | 100 | 90 |
| 41175015 | 150 | 140 |
| 41175020 | 200 | 189 |
| 41175025 | 250 | 241 |
| 41175030 | 300 | 290 |

Desiccators

- + ISO 13130
- + with interchangeable cover with glass knob
- + non vacuum
- + without porcelain plate



Boro
3.3

| Art.No. | Capacity (l) | Inner Ø (mm) |
|----------|--------------|--------------|
| 41160010 | 0.7 | 100 |
| 41160015 | 2.4 | 150 |
| 41160020 | 5.8 | 200 |
| 41160025 | 10.5 | 250 |
| 41160030 | 18.7 | 300 |

Vacuum desiccators

- + DIN 12491 and ISO 13130
- + with interchangeable lid with vacuum connection
- + without valve
- + vacuum tightness and pressure tested
- + suitable for full vacuum (10 mbar)
- + without porcelain plate



Boro
3.3

| Art.No. | Capacity (l) | Inner Ø (mm) |
|----------|--------------|--------------|
| 41161015 | 2.4 | 150 |
| 41161020 | 5.8 | 200 |
| 41161025 | 10.5 | 250 |

Desiccators

- + DIN 12491 and ISO 13130
- + with interchangeable tube cover and valve
- + suitable for full vacuum (10 mbar)
- + without porcelain plate



Boro
3.3

| Art.No. | Capacity (l) | Inner Ø (mm) | Tube (NS) |
|----------|--------------|--------------|-----------|
| 41162015 | 2.4 | 150 | 24/29 |
| 41162020 | 5.8 | 200 | 24/29 |
| 41162025 | 10.5 | 250 | 24/29 |

Desiccators

- + DIN 12491 and ISO 13130
- + tight closure due to standard ground joint
- + suitable for all type of lids
- + without porcelain plate



Boro
3.3

| Art.No. | Capacity (l) | Inner Ø (mm) | Tube (NS) |
|----------|--------------|--------------|-----------|
| 41163015 | 2.4 | 150 | 24/29 |
| 41163020 | 5.8 | 200 | 24/29 |
| 41163025 | 10.5 | 250 | 24/29 |



Desiccator valves

Boro
3.3

| Art.No. | for | Outer Ø of olive (mm) | Joint size | Bore (mm) | Valve spindle |
|----------|------------|-----------------------|------------|-----------|---------------|
| 41177024 | Tube cover | 8 | 24/29 | NW 2,5 | PTFE |
| 41178024 | Side tube | 8 | 24/29 | NW 2,5 | PTFE |

Evaporating dishes semi-deep

- + with spout
- + DIN 12903
- + glazed inside and outside
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47000006 | 40 | 25 | 63 |
| 47000007 | 50 | 26 | 70 |
| 47000008 | 75 | 34 | 80 |
| 47000010 | 115 | 40 | 100 |
| 47000012 | 310 | 47 | 115 |
| 47000015 | 370 | 45 | 150 |

Evaporating dishes semi-deep

- + with spout
- + DIN 12903
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|-----------|-----------------------|---------------------|-----------------------|
| 47000102 | 20 | 20 | 50 |
| 47000104 | 30 | 22 | 63 |
| 47000106 | 60 | 32 | 80 |
| 47000108* | 107 | 38 | 81 |
| 47000110 | 150 | 40 | 100 |
| 47000112* | 232 | 47 | 112 |
| 47000114 | 285 | 50 | 125 |
| 47000116* | 400 | 61 | 138 |
| 47000118* | 700 | 74 | 170 |

* in addition to the norm

Evaporating dishes with flat bottom

- + with spout
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47001102 | 22 | 22 | 54 |
| 47001104 | 62 | 30 | 70 |
| 47001106 | 93 | 33 | 86 |
| 47001108 | 154 | 40 | 98 |
| 47001110 | 265 | 50 | 112 |
| 47001112 | 330 | 53 | 126 |
| 47001114 | 450 | 55 | 145 |

Evaporating dishes low form

- + with spout
- + DIN 12903
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47002008 | 40 | 20 | 80 |
| 47002010 | 80 | 22 | 100 |

Evaporating dishes

low form

- + with spout
- + DIN 12903
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47002102 | 20 | 14 | 60 |
| 47002104 | 55 | 20 | 80 |
| 47002106 | 110 | 25 | 100 |
| 47002108 | 250 | 30 | 130 |
| 47002110 | 450 | 40 | 160 |

Crucibles for swelling

- + with cover
- + unglazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47003102 | 19 | 27 | 43 |

Gooch crucibles

- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47004102 | 17 | 36 | 30 |
| 47004104 | 25 | 43 | 35 |
| 47004106 | 35 | 49 | 39 |
| 47004108 | 120 | 71 | 60 |

Funnels, Büchner

- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Stem length approx. (mm) | Height approx. (mm) | Filter area Ø approx. (mm) |
|----------|-----------------------|--------------------------|---------------------|----------------------------|
| 47005040 | 25 | 37 | 76 | 40 |
| 47005055 | 75 | 53 | 129 | 55 |
| 47005070 | 135 | 75 | 150 | 70 |
| 47005090 | 290 | 75 | 165 | 90 |

Funnels, Büchner

- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Bowl height approx. (mm) | Stem length approx. (mm) | Inner Ø approx. (mm) | Ø 2 approx. (mm) | Pore-Ø approx. (mm) | Filterpaper Ø (mm) |
|----------|-----------------------|--------------------------|--------------------------|----------------------|------------------|---------------------|--------------------|
| 47005102 | 35 | 24 | 43 | 48 | 38 | 1 | 45 |
| 47005104 | 70 | 30 | 64 | 62 | 45 | 1 | 55 |
| 47005106 | 120 | 35 | 64 | 77 | 58 | 1 | 70 |
| 47005108 | 240 | 40 | 71 | 97 | 70 | 2 | 90 |
| 47005110 | 400 | 49 | 83 | 116 | 95 | 2 | 110 |
| 47005112 | 600 | 52 | 85 | 130 | 110 | 2 | 125 |
| 47005114 | 1000 | 59 | 96 | 156 | 130 | 2 | 150 |
| 47005116 | 2000 | 74 | 117 | 192 | 160 | 2 | 185 |
| 47005118 | 4000 | 90 | 117 | 248 | 220 | 2 | 240 |
| 47005120 | 7000 | 105 | 130 | 296 | 260 | 2 | 270 |
| 47005122 | 10000 | 120 | 133 | 334 | 320 | 2 | 320 |

Filter crucibles

- + DIN 12909
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Upper Ø approx. (mm) | Lower Ø approx. (mm) | Pore size (µm) |
|----------|-----------------------|---------------------|----------------------|----------------------|----------------|
| 47006102 | 8 | 20 | 25 | 20 | 6 |
| 47006104 | 8 | 20 | 25 | 20 | 7 |
| 47006106 | 8 | 20 | 25 | 20 | 8 |
| 47006108 | 15 | 35 | 30 | 24 | 6 |
| 47006110 | 15 | 35 | 30 | 24 | 7 |
| 47006112 | 15 | 35 | 30 | 24 | 8 |
| 47006114 | 25 | 40 | 35 | 28 | 6 |
| 47006116 | 25 | 40 | 35 | 28 | 7 |
| 47006118 | 25 | 40 | 35 | 28 | 8 |
| 47006120 | 35 | 43 | 40 | 30 | 6 |
| 47006122 | 35 | 43 | 40 | 30 | 7 |
| 47006124 | 35 | 43 | 40 | 30 | 8 |
| 47006126 | 50 | 50 | 45 | 36 | 6 |
| 47006128 | 50 | 50 | 45 | 36 | 7 |
| 47006130 | 50 | 50 | 45 | 36 | 8 |

Casseroles

- + with handle and spout
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47015102 | 22 | 26 | 45 |
| 47015104 | 84 | 39 | 67 |
| 47015106 | 176 | 49 | 85 |
| 47015108 | 270 | 51 | 101 |
| 47015110 | 450 | 64 | 120 |
| 47015112 | 960 | 86 | 150 |

Measuring jugs cylindrical

- + with handle and spout
- + with scale
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) |
|----------|-----------------------|---------------------|
| 47020024 | 50 | 60 |
| 47020030 | 100 | 72 |
| 47020048 | 250 | 96 |
| 47020060 | 500 | 131 |
| 47020066 | 1000 | 160 |

Beakers

tall form

- + with spout
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47025102 | 170 | 90 | 52 |
| 47025104 | 225 | 106 | 57 |
| 47025106 | 450 | 143 | 70 |
| 47025108 | 1100 | 157 | 101 |

Beakers

low form

- + with spout
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47026102 | 275 | 85 | 40 |
| 47026104 | 400 | 99 | 80 |
| 47026106 | 620 | 116 | 90 |
| 47026108 | 860 | 129 | 100 |
| 47026110 | 950 | 100 | 123 |

Incinerating dishes

deep form

- + DIN 12904
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47034102 | 21 | 20 | 40 |
| 47034106 | 64 | 30 | 60 |
| 47034110 | 103 | 35 | 70 |

Incinerating dishes

low form

- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47034108 | 70 | 20 | 81 |

Incinerating dishes

deep form

- + with spout
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47034202 | 64 | 30 | 60 |

Combustion boat

- + with handle
- + unglazed
- + made of porcelain



| Art.No. | Dimensions approx. (mm) |
|----------|-------------------------|
| 47035010 | 85 x 13 x 4 |

Melting pots

medium-high form

- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47040025 | 5 | 20 | 25 |
| 47040030 | 10 | 25 | 30 |
| 47040035 | 13 | 28 | 35 |
| 47040040 | 20 | 32 | 40 |
| 47040045 | 38 | 36 | 45 |
| 47040050 | 50 | 40 | 50 |

Melting pots

medium-high form

- + DIN 12904
- + glazed
- + made of porcelain



| Art.No. | Capacity (ml) | Height (mm) | Ø (mm) |
|----------|---------------|-------------|--------|
| 47040130 | 10 | 25 | 30 |
| 47040135 | 12 | 28 | 35 |
| 47040140 | 20 | 32 | 40 |
| 47040145 | 30 | 36 | 45 |
| 47040150 | 45 | 40 | 50 |
| 47040160 | 80 | 48 | 60 |
| 47040170 | 120 | 56 | 70 |
| 47040180 | 200 | 62 | 80 |

Covers

for melting pots



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 47041025 | 25 |
| 47041030 | 30 |
| 47041035 | 35 |
| 47041040 | 40 |
| 47041045 | 45 |
| 47041050 | 50 |

- + glazed
- + made of porcelain
- + for articles 470400...

Covers

for melting pots ECO



- + DIN 12904
- + glazed
- + made of porcelain
- + for articles

470401.../47045.../47050...

| Art.No. | Inner Ø approx. (mm) | Outer Ø approx. (mm) |
|----------|----------------------|----------------------|
| 47041130 | 30 | 34 |
| 47041135 | 35 | 39 |
| 47041140 | 40 | 44 |
| 47041145 | 45 | 49 |
| 47041150 | 50 | 54 |
| 47041160 | 60 | 64 |
| 47041170 | 70 | 74 |
| 47041180 | 70 | 84 |

Melting pots

low form

- + DIN 12904
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|-----------|-----------------------|---------------------|-----------------------|
| 47045102 | 5 | 19 | 30 |
| 47045104 | 10 | 22 | 35 |
| 47045106 | 17 | 25 | 40 |
| 47045108 | 21 | 28 | 45 |
| 47045110 | 34 | 32 | 50 |
| 47045112 | 62 | 38 | 60 |
| 47045114 | 91 | 44 | 70 |
| 47045130* | 5 | 19 | 30 |
| 47045135* | 10 | 22 | 35 |
| 47045140* | 20 | 25 | 40 |
| 47045145* | 21 | 28 | 45 |
| 47045150* | 34 | 32 | 50 |
| 47045160* | 62 | 38 | 60 |
| 47045170* | 91 | 44 | 70 |

* ECO

Melting pots

tall form, ECO

- + DIN 12904
- + glazed
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47050130 | 15 | 38 | 30 |
| 47050135 | 26 | 40 | 35 |
| 47050140 | 35 | 50 | 40 |
| 47050145 | 50 | 56 | 45 |
| 47050150 | 72 | 62 | 50 |
| 47050160 | 120 | 75 | 60 |

Weighing boats

- + glazed
- + made of porcelain



| Art.No. | Length approx. (mm) | Width approx. (mm) |
|----------|---------------------|--------------------|
| 47048102 | 37 | 17 |
| 47048104 | 53 | 23 |
| 47048106 | 64 | 29 |

Scoops

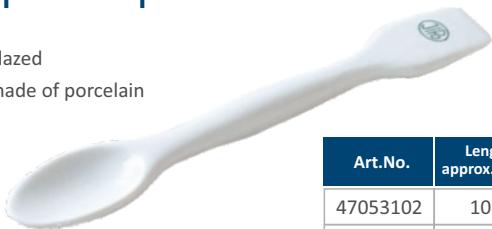
- + glazed
- + made of porcelain



| Art.No. | Length approx. (mm) |
|----------|---------------------|
| 47052102 | 237 |

Spoon spatula

- + glazed
- + made of porcelain



| Art.No. | Length approx. (mm) |
|----------|---------------------|
| 47053102 | 103 |
| 47053104 | 148 |
| 47053106 | 164 |
| 47053108 | 187 |
| 47053110 | 200 |
| 47053112 | 250 |

Double spoon spatula

- + glazed
- + made of porcelain



| Art.No. | Length approx. (mm) |
|----------|---------------------|
| 47054102 | 104 |
| 47054104 | 186 |
| 47054106 | 250 |
| 47054108 | 298 |

Staining cassettes with cover



| Art.No. | Width approx. (mm) | Depth approx. (mm) | Height approx. (mm) |
|----------|--------------------|--------------------|---------------------|
| 47060102 | 20 | 40 | 86 |

Mortars

- + with spout
- + DIN 12906
- + outside glazed
- + inside rough
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47030006 | 20 | 32 | 60 |
| 47030008 | 70 | 40 | 80 |
| 47030010 | 100 | 50 | 100 |
| 47030013 | 300 | 63 | 130 |
| 47030015 | 400 | 65 | 150 |

Mortars ECO

- + with spout
- + outside glazed
- + inside rough
- + made of porcelain



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|-----------|-----------------------|---------------------|-----------------------|
| 47030106 | 25 | 32 | 51 |
| 47030108* | 70 | 41 | 63 |
| 47030110* | 160 | 50 | 83 |
| 47030113 | 220 | 64 | 105 |

* DIN 12906

Pestles

- + DIN 12906
- + with friction surface
- + made of porcelain



| Art.No. | Length approx. (mm) | Head Ø approx. (mm) |
|----------|---------------------|---------------------|
| 47031006 | 100 | 24 |
| 47031008 | 115 | 24 |
| 47031010 | 135 | 30 |
| 47031013 | 150 | 36 |
| 47031015 | 180 | 45 |

Pestles ECO

- + DIN 12906
- + with friction surface
- + made of porcelain



| Art.No. | Length approx. (mm) | Head Ø approx. (mm) |
|----------|---------------------|---------------------|
| 47031106 | 115 | 24 |
| 47031108 | 135 | 30 |
| 47031110 | 150 | 36 |
| 47031113 | 175 | 42 |

Mortars

- + with spout
- + rough grinding surface

Boro 3.3



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Outer Ø approx. (mm) |
|----------|-----------------------|---------------------|----------------------|
| 47028008 | 125 | 60 | 80 |
| 47028010 | 225 | 75 | 100 |
| 47028012 | 400 | 90 | 120 |
| 47028015 | 700 | 110 | 150 |

Pestles

- + rough grinding surface

Boro 3.3



| Art.No. | Length approx. (mm) | Head Ø approx. (mm) | for mortars Ø approx. (mm) |
|----------|---------------------|---------------------|----------------------------|
| 47029008 | 110 | 28 | 80 |
| 47029010 | 130 | 31 | 100 |
| 47029012 | 150 | 36 | 120 |
| 47029015 | 180 | 40 | 150 |

Mortars made of melamine white



| Art.No. | Capacity approx. (ml) | Height approx. (mm) | Diameter approx. (mm) |
|----------|-----------------------|---------------------|-----------------------|
| 47032001 | 400 | 80 | 120 |
| 47032002 | 700 | 90 | 150 |

Pestles made of melamine white



| Art.No. | Length approx. (mm) | Head Ø approx. (mm) |
|----------|---------------------|---------------------|
| 47033001 | 130 | 30 |
| 47033002 | 150 | 40 |

Separating funnels Squibb with PE-HD stopper, PTFE stopcock

- + replaceable plugs with reliable stopcock locks
- + replaceable NS cover plugs made of polyethylene (PE-HD), resistant to alkalis and acids
- + stopcock sleeve and ground joint reinforced
- + capacity and NS sizes permanently labelled
- + with NS stopcock
- + packaged in pieces of 2 per box


PREMIUM
Boro 3.3

| Art.No. | Capacity approx. (ml) | Joint size | Bore approx. (mm) |
|----------|-----------------------|------------|-------------------|
| 42986124 | 50 | 19/26 | 2.5 |
| 42986130 | 100 | 19/26 | 2.5 |
| 42986148 | 250 | 29/32 | 4 |
| 42986160 | 500 | 29/32 | 4 |
| 42986166 | 1000 | 29/32 | 6 |
| 42986172 | 2000 | 29/32 | 6 |

Separating funnels Squibb with PE stopper, PTFE stopcock

- + replaceable NS cover plugs made of polyethylene
- + ISO 4800
- + capacity and NS sizes permanently labelled
- + with NS stopcock
- + packaged in pieces of 1 per box


BASIC
Boro 3.3

| Art.No. | Capacity approx. (ml) | Joint size | Bore approx. (mm) |
|----------|-----------------------|------------|-------------------|
| 52985024 | 50 | 19/26 | 2.5 |
| 52985030 | 100 | 19/26 | 2.5 |
| 52985048 | 250 | 29/32 | 4 |
| 52985060 | 500 | 29/32 | 4 |
| 52985066 | 1000 | 29/32 | 6 |
| 52985072 | 2000 | 29/32 | 6 |

Separating funnels pear shape with PE stopper, PTFE stopcock

- + replaceable NS cover plugs made of polyethylene
- + ISO 4800
- + capacity and NS sizes permanently labelled
- + with NS stopcock
- + packaged in pieces of 1 per box


BASIC
Boro 3.3

| Art.No. | Capacity approx. (ml) | Joint size | Bore approx. (mm) |
|----------|-----------------------|------------|-------------------|
| 52971024 | 50 | 19/26 | 2.5 |
| 52971030 | 100 | 19/26 | 2.5 |
| 52971048 | 250 | 29/32 | 4 |
| 52971060 | 500 | 29/32 | 4 |
| 52971066 | 1000 | 29/32 | 6 |
| 52971072 | 2000 | 29/32 | 6 |

Separating funnels pear shape stem with cone, with PE stopper, PTFE stopcock

- + replaceable NS cover plugs made of polyethylene
- + ISO 4800
- + capacity and NS sizes permanently labelled
- + with NS stopcock
- + packaged in pieces of 1 per box


BASIC
Boro 3.3

| Art.No. | Capacity approx. (ml) | Joint size | Bore approx. (mm) |
|----------|-----------------------|------------|-------------------|
| 52987024 | 50 | 19/26 | 2.5 |
| 52987030 | 100 | 19/26 | 2.5 |
| 52987048 | 250 | 29/32 | 4 |
| 52987060 | 500 | 29/32 | 4 |
| 52987066 | 1000 | 29/32 | 6 |

Sedimentation cones

acc. to Imhoff

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

- + DIN 12672
- + transparent
- + with raised scale up to 1000 ml
- + ring mark at 1000 ml
- + with screw connection for emptying

| Art.No. | Capacity approx. (ml) | Material |
|----------|-----------------------|---------------------------------------|
| 44274010 | 1000 | SAN (styrene-acrylonitrile copolymer) |



Sedimentation cones

acc. to Imhoff

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

- + DIN 12672
- + without stopcock
- + with scale up to 1000 ml
- + ring mark at 1000 ml
- + with frosted label
- + white graduated

| Art.No. | Capacity approx. (ml) | Variant | Outer Ø approx. (mm) | Length approx. (mm) |
|----------|-----------------------|------------------|----------------------|---------------------|
| 44275010 | 1000 | without stopcock | 120 | 470 |



Sedimentation cone racks

wooden



- + for sedimentation cones
- + maple wood
- + varnished
- + sturdy design

| Art.No. | Suitable for | Dimensions approx. (mm) | Hole Ø bottom (mm) | Hole Ø top (mm) |
|----------|--------------|-------------------------|--------------------|-----------------|
| 44277010 | 4 | 590 x 650 x 130 | 24 | 86 |
| 44277020 | 2 | 480 x 380 x 130 | 22 | 84 |

Cleaning brushes

for sedimentation cones



- + galvanised
- + with wooden handle
- + nylon bristles

| Art.No. | Brush upper Ø approx. (mm) | Brush lower Ø approx. (mm) | Brush length approx. (mm) | Total length approx. (mm) |
|----------|----------------------------|----------------------------|---------------------------|---------------------------|
| 44279010 | 130 | 30 | 430 | 700 |

Laboratory tubing PVC

- + Colour: transparent
- + free of Phthalates



Hardness: 80 Shore A
Density: 1,22 g/cm³

Temperature resistance: up to +60°C/+140°F

Tensile strength: > 18 N/mm²

Elongation at break: ≥ 240 %

Thermal stability: > 30 Min.

Cold crack temperature: < -25°C

| Art.No. | Wall thickness approx. (mm) | Inner Ø approx. (mm) | Outer Ø approx. (mm) |
|----------|-----------------------------|----------------------|----------------------|
| 41581004 | 1.5 | 4 | 7 |
| 41581006 | 1.5 | 6 | 9 |
| 41581008 | 1.5 | 8 | 11 |
| 41581010 | 2 | 10 | 14 |
| 41581012 | 2 | 12 | 16 |

Laboratory tubing red natural rubber

- + Colour: red



Hardness: 50 Shore A
Density: 1,22 g/cm³

Temperature resistance: from -25°C/-13°F

up to +70°C/+158°F

Tensile strength: 10 N/mm²

Elongation at break: ≥ 500 %

Compression set: 60 %

| Art.No. | Wall thickness approx. (mm) | Inner Ø approx. (mm) | Outer Ø approx. (mm) |
|----------|-----------------------------|----------------------|----------------------|
| 41580004 | 1 | 4 | 6 |
| 41580006 | 1.5 | 6 | 9 |
| 41580008 | 2 | 8 | 12 |
| 41580010 | 2 | 10 | 14 |
| 41580012 | 2.5 | 12 | 17 |

Laboratory tubing silicone (VMQ)

- + colour: transparent
- + free of BSE / TSE
- + biocompatibility: USP class 1-6
- + peroxide cross-linked
- + suitable for peristaltic pumps
- + food-safe

Hardness: 60 Shore A

Density: 1,14 g/cm³

Temperature resistance: from -60 to +200°C/-76 to 392°F
 (temporarily +260 °C/+500 °F)

Tensile strength: 11 N/mm²

Elongation at break: ≥ 500 %

Tear strength: ≥ 22 kN/m

Compression set: 30 %



Electrical values:

Dielectric strength: 18 – 20 kV/mm

Dielectric constant: 2,7 – 3,3

Dielectric dissipation factor: 30 - 250 · 10⁻⁴ tan Delta

Volume resistivity: 10¹⁵ – 10¹⁶ Ohm x cm

Specific heat capacity: approx. 1,25 kJ/kg / K and approx. 0,2 - 0,3 W/m/K

| Art.No. | Wall thickness approx. (mm) | Inner Ø approx. (mm) | Outer Ø approx. (mm) |
|----------|-----------------------------|----------------------|----------------------|
| 41582004 | 1 | 4 | 6 |
| 41582006 | 1.5 | 6 | 9 |
| 41582008 | 2 | 8 | 12 |
| 41582010 | 2 | 10 | 14 |
| 41582012 | 2 | 12 | 16 |

Tubing clamps with thumb screw and chrome-nickel steel band



- + brass screw and nut
- + steel mounting saddle and cap
- + galvanised and white chromated

| Art.No. | Clamping range Ø approx. (mm) |
|----------|-------------------------------|
| 41586010 | 6 - 10 |
| 41586012 | 8 - 12 |
| 41586014 | 10 - 14 |
| 41586017 | 13 - 17 |
| 41586019 | 15 - 19 |
| 41586021 | 17 - 21 |
| 41586022 | 18 - 22 |
| 41586025 | 21 - 25 |
| 41586030 | 26 - 30 |

Safety valves

made of PE-HD



The safety valve was designed for general laboratory applications that do not fall under the MPG. The polyethylene type used complies with the relevant requirements of Directive 1935/2004/EC. It also fulfils the requirements of FDA regulation 21 CFR 177.1520(a)(3)(i) and (c)3.2a.

Direction of insertion from the valve:

The valve half must be at the bottom. This means that the weight of the valve disc must also be overcome by the applied vacuum.

| Art.No. | Material valve disc | for inner tubing Ø of approx. (mm) | Dimensions approx. (mm) |
|----------|---------------------|------------------------------------|-------------------------|
| 42860010 | FKM (Viton) | 6 - 9 | 78 x 24 Ø |

Funnels

short stem

Boro 3.3



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 44000004 | 30 |
| 44000008 | 35 |
| 44000012 | 40 |
| 44000016 | 45 |
| 44000020 | 50 |
| 44000024 | 55 |
| 44000028 | 60 |
| 44000032 | 70 |
| 44000036 | 80 |
| 44000040 | 100 |
| 44000044 | 120 |
| 44000048 | 150 |
| 44000056 | 200 |
| 44000064 | 300 |

- + angle of 60°
- + suitable for liquid solid filtration using with filter paper

Analytical funnels



Boro 3.3

- + ISO 4798
- + angle of 60°
- + for quick filtration
- + with long stem
- + autoclavable
- + internal ribs lift the filter paper away from the funnel walls

| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 43991007 | 65 |
| 43991014 | 80 |
| 43991021 | 110 |

Powder funnels

made of glass

- + with short, wide stem
- + linear expansion coefficient: $3,3 \cdot 10^{-6} \text{ K}^{-1}$
- + hydrolytic class: 1
- + acid resistance class: 1
- + alkali resistance class: 2
- + temperature change resistance: 100 K
- + density: 2.23 g/cm³



Boro 3.3

| Art.No. | Diameter approx. (mm) | Height (mm) | Stem Ø approx. (mm) | Stem length approx. (mm) |
|----------|-----------------------|-------------|---------------------|--------------------------|
| 44001012 | 40 | 45 | 14 | 18 |
| 44001020 | 50 | 55 | 18 | 25 |
| 44001028 | 60 | 60 | 20 | 25 |
| 44001036 | 80 | 70 | 24 | 26 |
| 44001040 | 100 | 80 | 26 | 27 |
| 44001044 | 120 | 115 | 26 | 32 |
| 44001052 | 160 | 135 | 35 | 24 |

Powder funnels

made of polypropylene
transparent
with hanging loop



| Art.No. | Outer Ø approx. (mm) | Height (mm) | Stem Ø approx. (mm) | Stem length approx. (mm) |
|----------|----------------------|-------------|---------------------|--------------------------|
| 44002030 | 65 | 70 | 15 | 26 |
| 44002036 | 80 | 75 | 21 | 26 |
| 44002040 | 100 | 92 | 24 | 23 |
| 44002044 | 120 | 105 | 27 | 22 |
| 44002048 | 150 | 138 | 28 | 22 |

Funnels

made of polyethylene (PE-HD)
with hanging loop



| Art.No. | Diameter approx. (mm) | Stem Ø approx. (mm) | Stem length approx. (mm) |
|----------|-----------------------|---------------------|--------------------------|
| 49050003 | 60 | 8 | 40 |
| 49050006 | 80 | 11 | 50 |
| 49050009 | 100 | 12 | 55 |
| 49050012 | 120 | 12 | 60 |
| 49050015 | 140 | 15 | 65 |
| 49050018 | 160 | 17 | 80 |
| 49050021 | 200 | 20 | 85 |

Analytical funnels

made of polypropylene



- + with ribbed interior
- + for rapid filtration

| Art.No. | Diameter approx. (mm) | Stem Ø approx. (mm) | Stem length approx. (mm) |
|----------|-----------------------|---------------------|--------------------------|
| 49051030 | 45 | 5 | 44 |
| 49051033 | 65 | 9 | 63 |
| 49051036 | 80 | 10 | 69 |
| 49051039 | 100 | 11 | 82 |
| 49051042 | 120 | 11 | 85 |
| 49051045 | 150 | 14 | 115 |
| 49051048 | 180 | 14 | 143 |

Powder funnels

made of glass

- + at a bowl angle of 60°
- + ideal for filtering and transferring powders



BASIC Boro 3.3

| Art.No. | Diameter approx. (mm) | Stem Ø approx. (mm) | PU (pcs) |
|----------|-----------------------|---------------------|----------|
| 54001028 | 60 | 25 | 6 |
| 54001036 | 80 | 25 | 6 |
| 54001040 | 100 | 25 | 6 |
| 54001044 | 120 | 25 | 2 |

Funnels short stem

BASIC

Boro
3.3



+ DIN ISO 4798

+ with 60° bowl angle for precise fitting of filterpaper

+ ideally used for filtering and decanting liquids of varied densities

| Art.No. | Diameter approx. (mm) | Stem length approx. (mm) | Stem Ø approx. (mm) | PU (pcs) |
|----------|-----------------------|--------------------------|---------------------|----------|
| 54003004 | 30 | 30 | 6 | 10 |
| 54003016 | 40 | 40 | 6 | 10 |
| 54003020 | 50 | 50 | 7 | 10 |
| 54003024 | 55 | 55 | 8 | 10 |
| 54003028 | 60 | 60 | 8 | 10 |
| 54003030 | 65 | 65 | 8 | 10 |
| 54003032 | 70 | 70 | 8 | 10 |
| 54003034 | 75 | 75 | 8 | 10 |
| 54003036 | 80 | 80 | 9 | 10 |
| 54003038 | 100 | 100 | 10 | 10 |
| 54003042 | 150 | 150 | 16 | 10 |
| 54003044 | 120 | 120 | 16 | 10 |
| 54003048 | 200 | 200 | 24 | 10 |

Funnels long stem

BASIC

Boro
3.3



+ with 60° bowl angle for precise fitting of filterpaper

+ ideally used for filtering and decanting liquids of varied densities

| Art.No. | Diameter approx. (mm) | Stem length approx. (mm) | Stem Ø approx. (mm) | PU (pcs) |
|----------|-----------------------|--------------------------|---------------------|----------|
| 54000008 | 35 | 150 | 6 | 10 |
| 54000012 | 40 | 150 | 6 | 10 |
| 54000016 | 45 | 150 | 6 | 10 |
| 54000020 | 50 | 150 | 7 | 10 |
| 54000028 | 60 | 150 | 8 | 10 |
| 54000032 | 65 | 150 | 8 | 10 |
| 54000036 | 80 | 150 | 9 | 10 |
| 54000040 | 100 | 150 | 10 | 10 |
| 54000044 | 120 | 150 | 16 | 10 |
| 54000048 | 150 | 200 | 16 | 6 |
| 54000056 | 200 | 200 | 24 | 6 |
| 54000064 | 300 | 175 | 30 | 6 |

PARAFILM® M sealing film

Toxicity: non-toxic

Melting point: +60°C/+140°F

Flash point +301°C/+573.8°F

Temperature range: -45°C up to +50°C/-49°F up to +122°F

Stretching ability: 200 %

Ultimate elongation: 300 %

Density: 0,922 g/cm³

Colour: transparent

Storage environment: cool, dry, shaded,
+7°C up to +32°C/+44.6°F up to 89.6°F

Shelf life: unlimited



Gas permeability in 24 hours at +23°C/+73.4°F

with 50 % relative humidity::

Oxygen: ≤ 350 cm³/m²

Nitrogen: ≤ 105 cm³/m²

Carbon dioxide: ≤ 1100 cm³/m²

Water vapour permeability in 24 hours

at +37°C/+98.6°F and 90 % relative humidity: 0.8 g/m²

| Art.No. | Length approx. (m) | Width approx. (cm) | Thickness approx. (µm) |
|----------|--------------------|--------------------|------------------------|
| 42511010 | 38 | 10 | 127 |
| 42511020 | 75 | 10 | 127 |

PARAFILM® M sealing film

Toxicity: non-toxic

Melting point: +60°C/+140°F

Flash point: +301°C/+573.8°F

Temperature range: -45°C up to +50°C/-49°F up to +122°F

Stretching ability: 200 %

Ultimate elongation: 300 %

Density: 0,922 g/cm³

Colour: transparent

Storage environment: cool, dry, shaded,
+7°C up to +32°C/+44.6°F up to 89.6°F

Shelf life: unlimited



Gas permeability in 24 hours at +23°C/+73.4°F

with 50 % relative humidity:

Oxygen: ≤ 350 cm³/m²

Nitrogen: ≤ 105 cm³/m²

Carbon dioxide: ≤ 1100 cm³/m²

Water vapour permeability in 24 hours

at +37°C/+98.6°F and 90 % relative humidity: 0.8 g/m²

| Art.No. | Length approx. (m) | Width approx. (cm) | Thickness approx. (µm) |
|----------|--------------------|--------------------|------------------------|
| 42512010 | 76 | 5 | 127 |

Manual counters four figures



- + casing lies comfortably in the hand
- + large display for easy reading

For counting blood cells, bacterial colonies, drops of liquids or any repetitive action. With buttons for mechanical counting. 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.

| Art.No. | Material | Dimensions (mm) | Counting range |
|----------|---------------------|-----------------|----------------|
| 40344010 | Chrome-plated steel | 31 x 45 x 45 | 0 - 9999 |

Hand stopwatches



- + with pin anchor and 7 jewels
- + solid version, metal case
- + graduation 0 – 60 in 1/5 s and 1/100 min and 0 – 30 in 1/100 min
- + shock- and dustproof, water-protected

| Art.No. | up to | Diameter approx. (mm) |
|----------|--------|-----------------------|
| 41978010 | 30 min | 60 |

Digital stopwatches



black

- + Start / Stop / Reset
- + Addition / Split / dual- & interval measurement
- + incl. battery (button cell) SR 54 1,55 V

| Art.No. | LCD-display | Measuring unit | Display |
|----------|-------------|----------------|-----------------|
| 41980010 | 7 digits | 1/100 s | 9h/59min/59,99s |

Digital interval timers table model



- + incl. battery (button cell) 1.5 V

- + without magnetic back
- + programmable for 99 min and 59 s
- + with memory recall function
- + countdown to 1 second
- + separate buttons for minutes and seconds

| Art.No. | LCD-display | Colour | Dimensions approx. (mm) |
|----------|-------------|--------|-------------------------|
| 41977030 | 4 digits | silver | 65 x 15 x 55 |

Digital interval timers



- + programmable up to 99 min and 59 s
- + countdown to 1 second
- + alarm tone for 30 s
- + memory recall function
- + separate buttons for minutes and seconds
- + with magnet on the back
- + incl. battery (button cell LR 44 1.5 V)

Digital interval timers with stopwatch and clock

- + incl. battery (button cell) 1.5 V LR 44

| Art.No. | Dimensions approx. (mm) | LCD-display | Material | Weight approx. (g) |
|----------|-------------------------|-------------|-------------------------------------|--------------------|
| 41977040 | 65 x 13 x 60 | 6 digits | Plastic case, varnished metal front | 40 (incl. battery) |



- + stopwatch up to 23 h 59 min 59 s
- + interval timer, countdown 23 h 59 min 59 s with alarm
- + with clip, stand, magnetic back and battery
- + standard time
- + colour: white



Stopclocks table model

- + electronic desk/wall stopclock with clear dial
- + luminescent minute track and luminescent hands
- + incl. battery AA 1.5 V

Quartz movement: 32,768 KHz quartz oscillator

Case: ABS plastic, light grey

Time measuring range: 2 hands for 60 min and 60 s

Time resolution: 1 s and 1/100 min

Temperature application range: -10°C up to +60°C/

14°F up to 140°F

Service life: approx. 18 months

| Art.No. | Dimensions approx. (mm) | Dial Ø approx. (mm) | Inner scale | Outer scale | Weight approx. (g) |
|----------|-------------------------|---------------------|------------------|----------------------|--------------------|
| 41979010 | 175 x 130 x 40/95 | 110 | 0 - 100/100 min. | 0 - 60 s, 0 - 60 min | 370 |



Digital interval timers with large display

- + with magnet and stand
- + interval timer counting down 99 min 59 s with acoustic signal
- + countdown in seconds to 1 second
- + separate buttons for setting the minutes and seconds
- + incl. button cell AAA 1.5 V

| Art.No. | Dimensions approx. (mm) | LCD-display | Material | Colour | Weight approx. (g) |
|----------|-------------------------|-------------|--------------------|--------|-----------------------|
| 41977060 | 84 x 77 x 16 | 4 digits | Plastic/ aluminium | silver | 70 (incl. battery) |

Interval timers with stopwatch and clock

- + with magnet, stand and clip
- + programmable for 99 h 59 min 59 s
- + separate buttons for hours, minutes and seconds
- + interval timer counting down with alarm
- + two different timer channels
- + Quartz digital stopwatch
- + standard time
- + incl. battery AA 1.5 V



| Art.No. | Dimensions approx. (mm) | Colour |
|-------------|-------------------------|------------------------|
| 41977050 | 76 x 66 x 18 | white |
| LCD-display | | Weight approx. (g) |
| 6 digits | | 100 (incl. battery) |

Interval timers mechanical

- + made of plastic
- + incl. desk stand
- + desk form
- + alarm sounds for approx. 3 - 8 sec.
- + with alarm 60 min.

For hanging, standing and lying down.

Versatile laboratory clock and essential element of laboratory diagnostics. Ideal for blood sedimentation or measurements in this area.



| Art.No. | Running time up to | Colour | Dimensions approx. (mm) |
|----------|--------------------|--------|-------------------------|
| 41974016 | 60 min | beige | 70 x 40 x 70 |
| 41974024 | 60 min | blue | |
| 41974032 | 60 min | white | |
| 41974040 | 120 min | white | |

Laboratory precision thermometers



| Art.No. | Temperature range | Division (°C) | Length approx. (mm) |
|----------|----------------------------|---------------|---------------------|
| 43210001 | -10 to +50°C/+14 to +122°F | 0.5 | 220 |
| 43210002 | -10 to +50°C/+14 to +122°F | 0.1 | 420 |
| 43210003 | -10 to +100°C/+14 to 212°F | 1.0 | 300 |
| 43210004 | -10 to +100°C/+14 to 212°F | 0.5 | 270 |
| 43210005 | 0 to +100°C/+32 to 212°F | 0.1 | 550 |
| 43210006 | -10 to +150°C/+14 to 302°F | 1.0 | 300 |
| 43210007 | -10 to +150°C/+14 to 302°F | 0.5 | 350 |
| 43210008 | -10 to +200°C/+14 to 392°F | 1.0 | 350 |
| 43210009 | -10 to +200°C/+14 to 392°F | 0.5 | 350 |

- + DIN 12770
- + manufactured from standard glass in enclosed form
- + with calibratable accuracy
- + Richter lock with button for easy handling
- + red filling for good readability
- + packed in a sturdy tube to prevent damage during transport

Distillation thermometers with standard ground



- + DIN 12770
- + NS 14/23
- + red filling for easy and accurate reading

| Art.No. | Temperature range | Division (°C) | Immersion length with ground (mm) | Immersion tube Ø approx. (mm) |
|----------|----------------------------|---------------|-----------------------------------|-------------------------------|
| 43225024 | -10 to +150°C/+14 to 302°F | 0.5 | 75 | 7 |
| 43225040 | -10 to +250°C/+14 to 482°F | 1.0 | | |

Chemical thermometers red filling

- + made of robust standard glass
- + with a diameter of approx. 7 - 8 mm
- + fine graduation in 1°C increments enables accurate readings
- + red filling ensures clear visibility of the measured liquid
- + packed in a sturdy tube to prevent damage during transport



| Art.No. | Temperature range |
|----------|----------------------------|
| 43201008 | -10 to +50°C/+14 to +122°F |
| 43201016 | -10 to +100°C/+14 to 212°F |
| 43201024 | -10 to +150°C/+14 to 302°F |
| 43201032 | -10 to +200°C/+14 to 392°F |
| 43201040 | -10 to +250°C/+14 to 482°F |

Pocket thermometers

The nickel case with bayonet catch and clip protects the thermometer and allows it to be stored safely.

- + alcohol filling in red or blue
- + with 1°C graduation for precise readings



| Art.No. | 43208008 | 43208016 |
|---------------------|-------------------------------|--------------------------------|
| Division (°C) | 1.0 | |
| Length approx. (mm) | 140 | |
| Temperature range | -35 to +50°C -31 to +122°F | -10 to +100°C +14 to +212°F |

Temperature data loggers Microlite



Application in all areas where temperature recording is required, e.g. food industry, transport and storage, pharmaceuticals, etc.
Free software (Internet download) is available to run the device's functions.



- + adjustable interval: 1 second up to 1 hour
- + robust and waterproof
- + graphic and tabular data evaluation
- + all data can be exported to Excel
- + IP 65 waterproof
- + direct USB interface
- + Hi-Lo-Alarm
- + case made of plastic (ABS)
- + with fixing

| Art.No. | Range | Storage capacity | Lithium battery | Display | Division |
|----------|--------------------------------|-------------------------|-------------------|---------------|-----------|
| 43240010 | -40 to +70°C/ -40 to +158°F | 150,000 measurements | 1x Cr2032 (3 V) | 7-segment LCD | 0.1°C |
| | Weight (g) | Dimensions approx. (mm) | Connection | Accuracy | Interface |
| | 83 | 91.5 x 42 x 20 | USB-standard port | ± 0.5°C* | USB 2.0 |

*or more, depending on the measuring range

Alarm thermometers digital, with immersion sensor



Ergonomically shaped laboratory thermometer with robust immersion probe.

Ideal for measurements in liquids, food, etc.

- + displays the current temperature

Technical data: + accuracy: ± 0.5°C at -20°C to +25°C/-4°F up to +77°F, otherwise ± 1°C

- + IP 65 waterproof

+ battery: 1x CR 2032 3V lithium button cell

- + maximum and minimum temperature

- + also usable for food industry according to HACCP

Accessories: stand, magnet, immersion sensor with 3 m cable, operating instructions, battery

- + hold function

Product features: Art.No. 43242020: with calibration certificate at 5°C/ 41°F

- + high precision

- + large display

- + according to EN 13485

Product features: Art.No. 43242020: with calibration certificate at 5°C/ 41°F

- + switchable °C/°F

Product features: Art.No. 43242020: with calibration certificate at 5°C/ 41°F

- + alarm when temperature falls

Product features: Art.No. 43242020: with calibration certificate at 5°C/ 41°F

- below/exceeds freely customisable values

Product features: Art.No. 43242020: with calibration certificate at 5°C/ 41°F

| Art.No. | Range | Division | Weight (g) | Dimensions (mm) | Variant |
|----------|--------------------------------|----------|------------|-----------------|-------------------------------------|
| 43242010 | -40 to +70°C/ -40 to +158°F | 0.1°C | 100 | 86 x 57 x 30 | without calibration certificate |
| | | | | 86 x 57 x 30 | with calibration certificate at 5°C |

Alarm thermometers digital, with insertion probe

Product features:

- + hold function
- + high precision
- + large display
- + according to EN 13485
- + switchable °C/°F
- + displays the current temperature
- + IP 65 waterproof
- + maximum and minimum temperature
- + alarm when temperature falls below/exceeds freely customisable values
- + also usable for food industry according to HACCP



Ergonomically shaped laboratory thermometer with robust immersion probe. Ideal for measurements in liquids, food, etc.

Accuracy: ± 0.5°C at 0°C to +50°C/32°F to 122°F, ± 1°C at -20°C to 0°C/-4°F to 32°F as well as 51°C to 70°C/123.8°F up to 158°F, otherwise ± 2°C

Accessories: stand, magnet, insertion probe with 1 m cable, operating instructions, battery

Optionally available with calibration certificate.

| Art.No. | Range | Division | Weight (g) | Dimensions (mm) |
|----------|---------------------------------|----------|------------|-----------------|
| 43243010 | -40 to +200°C/ -40 to +392°F | 0.1°C | 100 | 86 x 57 x 30 |

Temperature brakes (reference body)

Made of aluminium for constant temperature measurement, for mounting in refrigerators and freezers.

The temperature sensor can be directly inserted into the associated holes. They must be securely screwed in place.

This will prevent premature triggering of the alarm (e.g. by briefly opening/closing the door).

Suitable for probes with diameters of 3.5 mm, 4.2 mm, and 5.0 mm, e.g. also for Maxima-Minima Thermometer Art.No. 43656010.



| Art.No. | Drilled hole sizes (mm) |
|----------|-------------------------|
| 43244010 | 3.4 / 4.2 / 5.0 |

Electronic indoor/outdoor thermometers with DKD calibration certificate

- + test point at +4°C/39.2°F
- + min/max function and temperature alarm
- + with external cable of approx. 3 m
- + incl. button cell



| Art.No. | Range outdoors | Range indoors | Division | Accuracy |
|----------|--------------------------------|------------------------------|----------|---|
| 43246010 | -50 to +70°C/ -58 to +158°F | 0 to +50°C/ +32 to +122°F | 0.1°C | ± 1°C at -20 to +70°C /at -4 to +158°C |

Digital thermometers "mini"

electronic, with sensor made of stainless steel

- + with temperature memory function
- + probe made of stainless steel
- + protective sleeve with clip
- + automatic power-off after 10 min
- + with battery round cell LR44/A76



Function:

- + right-hand switch to ON,
- left-hand switch to TEST = normal temperature display
- + left switch to HOLD = current display is held; °C symbol flashes

| | |
|----------------------------|-------------------------------------|
| Art.No. | 43235010 |
| Ambient temperature casing | -10 to +40°C/+14 to +104°F |
| Range | -50 to +200°C/-58 to +392°F |
| Division | 0.1°C at -20 to +200°C/-4 to +392°F |
| Casing approx. (mm) | 55 x 22 Ø |
| Battery life approx. (h) | 5000 |
| Probe (mm) | 125 x 3.5 Ø |
| Accuracy | ± 1°C at -20 to +100°C/-4 to +212°F |

Digital pocket thermometers "ThermoJack"

with foldable insertion sensor

The thermometer automatically switches on as soon as the sensor is pulled out to 45°. It switches off when it is folded up again. It also switches off automatically after 10 minutes of inactivity with the sensor extended.

The functional thermometer is suitable for measuring the temperature of liquid, pasty and semi-solid media - also for food in accordance with HACCP and EN 13485.

- + folding angle up to 180°
- + large display, switchable °C/°F
- + incl. button cell 3 V
- + accuracy ± 0.5°C in the measuring range from -20°C to + 150°C/ -4°F up to 302°F; otherwise ± 1°C



| Art.No. | Range | Division | Immersion length approx. (mm) |
|----------|---------------------------------|----------|-------------------------------|
| 43238010 | -40 to +250°C/ -40 to +482°F | 0.1°C | 600 |

Barometer stations

with thermometer



- + consisting of:
barometer, thermometer and hygrometer
- + rustic

| Art.No. | Diameter (mm) | Material | Dimensions (mm) | Weight (g) |
|----------|---------------|----------|-----------------|------------|
| 43660010 | each 70 | oak wood | 110 x 36 x 272 | 361 |

Analogue outdoor weather stations

- + consisting of:
 - barometer, thermometer and hygrometer
- + weatherproof
- + with white scales
- + with mounting kit for hanging



Note:

The thermometer and hygrometer are factory-set. The barometer must first be set to the respective local altitude before use. The current air pressure can be obtained from the weather office, the Internet or an optician, for example. Using a small screwdriver, carefully turn the adjustment screw to the right until the pointer matches the requested value. Avoid over-tightening!

Even greater accuracy can be achieved by tapping lightly and readjusting.

| Art.No. | Diameter (mm) | Material | Dimensions (mm) | Weight (g) |
|----------|---------------|-----------------|-----------------|------------|
| 43662010 | each 70 | Stainless steel | 96 x 35 x 282 | 340 |

Sauna hygrometers round



| Art.No. | Measuring range | Diameter (mm) | Material |
|----------|-----------------|---------------|----------|
| 43255010 | 0 - 100 % | 100 | Metal |

Weather station with sensors for indoor and outdoor temperature measurement

- + batteries 3x 1.5 V AA (base station), 2x 1.5 V AAA (T/H transmitter) not included
- + from -40°C to +65°C/-40°F to +149°F (range outdoors) and -10°C to +60°C/+14°F to +140°F (range indoors)
- + with LCD display and LED indicator
- + battery replacement indicator
- + table stand, wall mount
- + indoor temperature and humidity display
- + max/min feature
- + weather forecast
- + air pressure trend, air pressure with graphical display of air pressure over the last 24 hours
- + radio-controlled clock with date display, time zone ± 12 hours



| Art.No. | Maximum range (m) | Temperature range | Measuring range humidity | Transmission frequency | Dimensions (mm) | Weight (g) |
|----------|-------------------|---|--|------------------------|-----------------|------------|
| 43655010 | 100 | -40 to +65°C (outdoor) -10 to +60°C (indoor) | 1 to 99 % (outdoor) 20 to 95 % (indoor) | 433 Mhz | 101 x 33 x 187 | 251 |

Wireless thermometers

Functions:

- + wireless transmission of outdoor temperature via transmitter (max. 80 m)
- + indoor temperature and humidity display
- + permanent display of maximum and minimum values with manual reset
- + additional max.-min.-memory with automatic reset after 24 hours
- + swiss precision sensor: humidity $\pm 3\%$ (35 - 75 %)
- + power supply 2 x AA batteries

Scope of delivery:

Base station, temperature transmitter, operating instructions

Batteries sold separately:

Art.No. 49290010 Alkaline AA LR 6 1.5 V



| | |
|-------------------------|---|
| Art.No. | 43658010 |
| Dimensions approx. (mm) | 77 x 22 x 86 |
| Range indoors | -10 to +60°C $\pm 1^\circ\text{C}$ (+14 to +140°F) |
| Range outdoors | -40 to +60°C $\pm 1^\circ\text{C}$ (-40 to +140 °F) |
| Battery | 1 x 1.5 V AA (base station), 1 x 1.5 V AA (transmitter) |
| Indoor humidity | 10 - 99 % accuracy $\pm 3\%$ (35 to 75 %) |
| Weight approx. (g) | 104 |
| Transmission (Mhz) | 433 |

Freezer-fridge thermometers digital

- + according to EN 13485
- + indication of temperature with corresponding freezer-fridge symbol
- + highest and lowest temperature
- + with stand and frame for mounting on surfaces or behind glass (display fridge, vegetable drawer)
- + switchable °C/°F



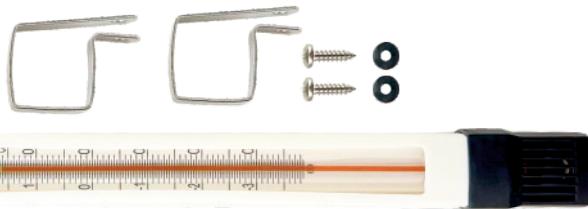
| | |
|-------------------------|---|
| Art.No. | 43595010 |
| Range | -30 to +50°C/-22 to 122°F |
| Division | 0.1°C |
| Weight approx. (g) | 65 |
| Dimensions approx. (mm) | 72 x 91 x 13 |
| incl. battery | CR 2032 Lithium-Knopfzelle |
| Accuracy | $\pm 0.8^\circ\text{C}$ at -20 to +10°C*/-4 to 50°F *otherwise $\pm 1^\circ\text{C}$ |

Freezer-fridge thermometers for hanging

- + cylindrical plastic case, for hanging
- + range from -40°C up to +50°C / -40°F up to +122°F
- + coloured filling for clear and quick reading



Freezer thermometers



- + includes official factory certificate to document the measuring accuracy
- + testing temperature: 0°C / 32°F
- + with practical holder for easy attachment

| | |
|-----------------|----------------------------|
| Art.No. | 43599010 |
| Range | -35 to +25 °C/-31 to +77°F |
| Dimensions (mm) | 25 x 25 x 265 |

Room thermometers beech wood



- + made of natural varnished beech wood, which offers a high-quality and natural appearance
- + coloured filling for a clear display

| | |
|-----------------|-----------------------------|
| Art.No. | 43513010 |
| Range | -30 to +50 °C/-22 to +122°F |
| Dimensions (mm) | 35 x 15 x 206 |

Window thermometers Vienna type



A classic thermometer with robust metal holder

- + blue filling that stands out well against the background.
- + range from -50°C up to +50°C/ -58°F up to 122°F, ideal for indoor and outdoor measurements

| | |
|-----------------|-----------------------------|
| Art.No. | 43605010 |
| Range | -50 to +50 °C/-58 to +122°F |
| Dimensions (mm) | 23 x 32 x 200 |

Maxima-Minima thermometers electronic

- + for indoor and outdoor temperature measurement
- + current temperature / highest and lowest day temperature
- + for hanging or standing
- + extra thin cable for easy passage through window seals
- + waterproof outdoor sensor
- + incl. 1.5 V AA battery

| | |
|----------------|----------------------------|
| Art.No. | 43656010 |
| Range indoors | -10 to +50°C/-14 to +122°F |
| Range outdoors | -50 to +70°C/-58 to 158°F |
| Cable (m) | 3 |



Maximum-minimum thermometers

- + environmentally friendly capillary filling, without mercury.
- + plastic roof in beige
- + with protective cover against the weather.
- + push-button magnet for easy operation.



| | |
|-----------------|----------------------------|
| Art.No. | 43647010 |
| Range | -30 to +50°C/-22 to +122°F |
| Dimensions (mm) | 85 x 45 x 232 |

Maximum-minimum thermometers

- + plastic case with push button magnet
- + environmentally friendly capillary filling
- + without roof
- + black



| | |
|-----------------|----------------------------|
| Art.No. | 43646010 |
| Range | -35 to +50°C/-31 to +122°F |
| Dimensions (mm) | 60 x 28 x 200 |

Maximum-minimum thermometers digital

- + for indoor and outdoor
- + splash-proof
- + temperature Celsius or Fahrenheit
- + present temperature / highest and lowest day temperature
- + including button cell 1.5 V AAA



| | | |
|------------|----------------------------|----------|
| Art.No. | 43653010 | 43653020 |
| Range | -20 to +50 °C/-4 to +122°F | |
| Selectable | Celsius / Fahrenheit | |
| Colour | green | black |

Bath thermometers with wooden clamp

A classic bath thermometer with a practical wooden clamp..

- + handle and paper scale
- + combined with a coloured filling for clear readability



| | |
|-------------|-----------------------------|
| Art.No. | 43700010 |
| Range | -10 to +50 °C/+14 to +122°F |
| Length (mm) | 250 |

Bath thermometers in boat shape

- + made of durable plastic
- + available in blue or white
- + practical boat shape
- + floats in the water.



| | |
|-----------------|---------------------------|
| Art.No. | 43711010 |
| Range | 0 to +50 °C/+32 to +122°F |
| Dimensions (mm) | 37 x 160 |

Mixed bed deionisers



- + disposable cartridge
- + practical ion exchanger for purified water
- + according to DAB and EuAB
- + blue lightproof cartridge avoids growth of algae

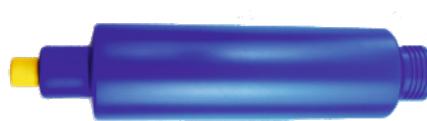
Scope of delivery:

Including conductivity meter with inlet hose, outlet hose and wall holder.

| | |
|--|---|
| Art.No. | 40075010 |
| Range ($\mu\text{S}/\text{cm}$) | 0 – 50 |
| Capacity at 1 $^{\circ}\text{dH}$ salt content (l) | 425 |
| Flow rate (l/h) | 50 |
| Pure water quality ($\mu\text{S}/\text{cm}$) | 0.1 – 20 |
| Max. water temperature | 30 $^{\circ}\text{C}$ / 86 $^{\circ}\text{F}$ |
| Electrical connection | 230 V/50 – 60 Hz |
| Material | Polyethylene |
| Dimensions approx. (mm)* | 600 x 100 \varnothing |
| Hose attachments | R $\frac{3}{4}$ " |
| Weight approx. (kg) | 3 |

* incl. conductivity meter

Spare cartridges for Art.No. 40075010



| | |
|-------------------|----------|
| Art.No. | 40076010 |
| Screw connections | 2 |
| Flow rate (l/h) | 50 |

Aquademat 2 Demineraliser

- + demineralisation device - ion exchanger for demineralised water
- + according to DAB and EuAB
- + the exhaustion is indicated by colour indicator
- + change of colour from amber to red



Consisting of three filter cartridges, with the second cartridge serving as a safety filter and the third as a spare cartridge.

With accessories, wall holder and a manual.

| | |
|-------------------------------------|-------------------------|
| Art.No. | 40080010 |
| Dimensions (mm) | 370 x 125 \varnothing |
| Capacity at 10° dH salt content (l) | 250 |
| Power (l/min) | 0.9 |

Reconditioned cartridge for Aquademat, for Art.No. 40080010 without hose

regenerated cartridge in return of the exhausted one

Notice: Spare cartridge Art.No. 40080010 will be supplied and invoiced if no cartridge has been returned.



| Art.No. | Dimensions (mm) | Weight (kg) |
|----------|-------------------------|-------------|
| 40087010 | 370 x 125 \varnothing | 3.5 |

Reconditioned cartridge for Aquademat



| Art.No. | Dimensions (mm) | Weight (kg) |
|----------|-----------------|-------------|
| 40088010 | 370 x 125 Ø | 3.5 |

Water distiller



- + with special tube for practical emptying and cleaning
- + complete with heater
- + without hose assembly
- + with instructions for use

Required cooling water volume: approx. 45 l/h

Cooling water outlet temperature: max. +60 °C



| | |
|---------------------------|--------------|
| Art.No. | 40225010 |
| Conductivity (µS) | 0.85 |
| Mains voltage | 220V, 2500W |
| pH value | 7.06 |
| Distillate temperature | +60°C/+140°F |
| Distillate quantity (l/h) | 3.5 |
| Weight (kg) | 4 |

Gas washing bottles according to Drechsel with filter plate

Boro 3.3



- + DIN 12596
- + clear glass
- + with labeling of capacity and ground size

| Art.No. | Capacity approx. (ml) | Porosity | Joint size | Filter plate Ø approx. (mm) |
|----------|-----------------------|----------|------------|-----------------------------|
| 41470012 | 100 | 1 | 29/32 | 22 |
| 41470018 | 250 | | | |
| 41470024 | 500 | | | |

Spare washing bottle heads with filter plate porosity 1



- + for gas washing bottle heads according to Drechsel
- + with joint size 29/32
- + top edge of ground joint to end of tube 185 ± 0.5 mm

Boro 3.3

| Art.No. | Outer Ø olive approx. (mm) |
|----------|----------------------------|
| 41470001 | 10 |

Gas washing bottles according to Drechsel

- + DIN 12596
- + clear glass
- + with labeling of capacity and ground size



Boro
3.3

| Art.No. | Capacity approx. (ml) | Joint size |
|----------|-----------------------|------------|
| 41469012 | 100 | 29/32 |
| 41469018 | 250 | |
| 41469024 | 500 | |
| 41469030 | 1000 | |

Spare washing bottle heads without filter plate

- + for gas washing bottle heads according to Drechsel
- + with joint size 29/32
- + top edge of ground joint to end of tube 185 ± 0.5 mm



Boro
3.3

| Art.No. | Outer Ø olive approx. (mm) |
|----------|----------------------------|
| 41469001 | 10 |

Water jet pumps made of polypropylene

Includes:

- + tubing connector (10 - 12 mm outer Ø)
- + suction line connection (detachable hose nozzle of 6 - 9 mm outer Ø, with screw cap GL 14)
- + water connection (sleeve nut R 3/4")
- + thread adapter R 1/2"



Art.No.

44283010

Continuous operating temperature

max. 80°C/ 176°F

Fermenting tube made of glass with two spheres

- + Soda-lime glass (hydrolytic class 3) Type III



| Art.No. | Outer tube Ø (mm) | Length (mm) |
|----------|-------------------|-------------|
| 41350010 | 10 | 195 |

Bernadotte vinometer

- + with cylindrical vessel
- + amber graduation



AR-Glas®

| Art.No. | Dimensions (mm) | Wall (mm) | Variant |
|----------|-----------------|-----------|--------------|
| 44200010 | 33 x 12 Ø | 1.2 | wine sampler |

Hofmann Voltameter – platinum electrodes

- + water decomposition apparatus with metal stand

consisting of:

- + glass part Art.No. 44287010
- + metal stand
- + 2 clamps Art.No. 40870010
- + 2 platinum electrodes Art.No. 44288010



| Art.No. | Scale (ml) | Division |
|----------|------------|----------|
| 44285010 | 0 - 60 | 1/5 |

Hofmann Voltameter – carbon electrodes

- + water decomposition apparatus with metal stand

consisting of:

- + glass part Art.No. 44287010
- + metal stand
- + 2 clamps Art.No. 40870010
- + 2 carbon electrodes Art.No. 44289010



| Art.No. | Scale (ml) | Division |
|----------|------------|----------|
| 44286010 | 0 - 60 | 1/5 |

Voltameters spare part made of glass

- + without stand
- + without electrodes



| Art.No. | Length approx. (mm) |
|----------|---------------------|
| 44287010 | 560 |

Electrodes platinum Voltameters spare part



- + spare platinum electrodes
- + stopper (lower Ø 14 mm, upper Ø 18 mm, height 20 mm, 7 mm hole)
- + glass tube 8 mm outer Ø

| Art.No. | Length approx. (mm) | Material | Bore Ø (mm) |
|----------|---------------------|----------|-------------|
| 44288010 | 140 | Platinum | 12 |

Electrodes carbon Voltameters spare part



- + stopper (lower Ø 14 mm, upper Ø 18 mm, height 20 mm, 6 mm hole)

| Art.No. | Length approx. (mm) | Material | Diameter approx. (mm) |
|----------|---------------------|----------|-----------------------|
| 44289010 | 125 | Carbon | 67 |

Glass beads

solid glass beads

- + made of soda-lime glass
- + pressed, round, polished
- + pack: 1 kg
- + water resistance class 3
- + acid resistance class 1
- + alkali resistance class 1



Grinding and dispersing beads for dyes, pigments, ink, agrochemicals and minerals. Filler in the chemicals, paper and plastics industries. Filler bead for increasing the physical properties of thermoplastics and thermosets. Reflective bead > 0.8 mm for road markings, especially for special markings to increase night visibility in the rain. Polishing bead in optics for interocular lenses. Blasting and coating material for mechanical surface treatment of metal, plastic and wood, as well as other technical applications.

| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41401001 | 1 |
| 41401002 | 2 |
| 41401003 | 3 |
| 41401004 | 4 |
| 41401005 | 5 |
| 41401006 | 6 |
| 41401007 | 7 |
| 41401008 | 8 |
| 41401010 | 10 |

Raschig rings

- + made of soda-lime glass
- + pack: 1 kg
- + short pipe sections
- + ends cut
- + water resistance class 3
- + acid resistance class 1
- + alkali resistance class 2



| Art.No. | Dimensions approx. (mm) |
|----------|-------------------------|
| 41400003 | 3 x 3 Ø |
| 41400004 | 4 x 4 Ø |
| 41400005 | 5 x 5 Ø |
| 41400006 | 6 x 6 Ø |
| 41400007 | 7 x 7 Ø |
| 41400008 | 8 x 8 Ø |
| 41400010 | 10 x 10 Ø |

Boiling stones Type A

Specifically for preparative work and vacuum distillation. The effect of these sedimentary stones remains even when multiple interruptions of the boiling process occur in the vacuum distillation. Long service life.

- + for normal distillation
- + suitable for vacuum distillation
- + grain size approx. 5 - 8 mm



| Art.No. | Weight approx. (g) |
|----------|--------------------|
| 41402010 | 250 |

Glass wool superfine (filter aid)

Grit-water resistance of the raw glass according to ISO 719: HGB 3

Fibre formulation: max. 0.25% of a sizing made of natural or synthetic oils

Loss on ignition according to DIN ISO 1887: max. 0.3 %

Fibre type: C-glass according to DIN 1259 part 1

Transformation temperature: 530°C/ 986°F

Acid class according to DIN 12116: 3

Alkali class according to DIN 52322: 2

Softening point: 680°C/ 1256°F

Density: approx. 2.52 g/cm³



| Art.No. | Pack (g) | Diameter approx. (µm) |
|----------|----------|-----------------------|
| 41408002 | 30 | 11 ± 1.1 |
| 41408003 | 1000 | |

Rubber squeegee spade-shaped

Temperature resistance: -30 to +60°C/ -22 to +140°F

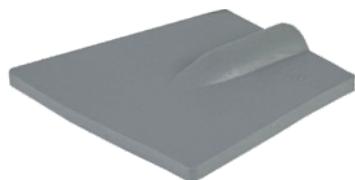
Tensile strength: >10 N/mm²

Elongation at break: > 690 %

Impact elasticity: > 55 %

Hardness: 40 Shore A

Density: 1.175 g/cm³



+ without glass rod

+ suitable for glass rod Art.No. 42850042

| Art.No. | Dimensions approx. (mm) | Bore Ø approx. (mm) | Colour | Material |
|----------|-------------------------|---------------------|--------|----------------|
| 41596010 | 35 x 25 x 32 | 5 | grey | Natural rubber |

Laboratory mats made of silicone (VMQ)



- + temperature resistant up to +260 °C/ 500°F
- + sterilisable
- + non-slip

| Art.No. | Dimensions approx. (mm) | Colour |
|----------|-------------------------|--------|
| 41598113 | 250 x 250 | red |
| 41598118 | 250 x 250 | black |
| 41598213 | 350 x 350 | red |
| 41598218 | 350 x 350 | black |

Gas syringe



- + for injecting or extracting gas into or from a closed system or for measuring the gas volume
- + for measuring liquids without gas ingress

| Art.No. | Capacity (ml) | Dimensions (mm) |
|----------|---------------|-----------------|
| 41465050 | 50 | 242 x 29 Ø |
| 41465100 | 100 | 280 x 35,5 Ø |

Gas syringe with single way stopcock



- + for injecting or extracting gas into or from a closed system or for measuring the gas volume
- + for measuring liquids without gas ingress

| Art.No. | Capacity (ml) | Bore (mm) | Socket Size | Dimensions (mm) |
|----------|---------------|-----------|-------------|-----------------|
| 41466050 | 50 | 3 | 12,5 | 320 x 29 Ø |
| 41466100 | 100 | 3 | 12,5 | 357 x 35,5 Ø |

Gas syringe with three way stopcock



- + for injecting or extracting gas into or from a closed system
- + or for measuring the gas volume
- + for measuring liquids without gas ingress

| Art.No. | Capacity (ml) | Bore (mm) | Socket Size |
|----------|---------------|-----------|-------------|
| 41467050 | 50 | 3 | 12,5 |
| 41467100 | 100 | 3 | 12,5 |

Laboratory lifter made of aluminium



- + height adjustable from 60 - 250 mm
- + powder-coated hammer blow blue
- + DIN 12897

The lab jack is characterised by a high-quality workmanship and high stability within the specified load range.
The height can be adjusted manually.

| Art.No. | Platform approx. (mm) | Height approx. (mm) | Max. static load (kg) | Weight approx. (g) |
|----------|-----------------------|---------------------|-----------------------|--------------------|
| 42011010 | 174 x 135 | 60 - 250 | 7 | 815 |

pH test sticks

- + non-bleeding
- + for rapid determination of the pH value
- + packaged in pieces of 100

Note:

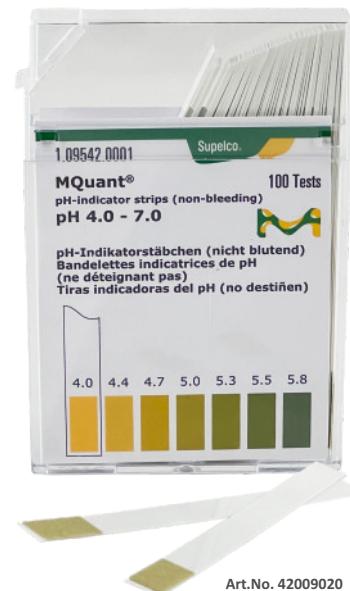
If buffering is insufficient, leave the test strips in the test liquid until the colour is constant.

Storage:

Avoid exposing the test strips to sunlight and moisture.
Store the container between 4°C and 30°C in a dry place.

Disposal:

Please dispose used test strips in household waste.



| Art.No. | Variant | Dimensions approx. (mm) |
|----------|---------|-------------------------|
| 42009010 | pH 0-14 | 6 x 85 |
| 42009020 | pH 4-7 | / |

Universal indicator paper reel in plastic rotary box

Graduation: pH 1 – 2 – 3 – 5 – 6 – 7 – 8 – 9 – 10 – 12 – 14

The indicator paper comes in a plastic reel that ensure long term stability and protection.

Storage: Avoid exposing the test strips to sunlight and moisture. Store the container below 4-30°C / 86°F in a dry place.



| Art.No. | Variant | Dimensions approx. (mm x m) |
|----------|---------|-----------------------------|
| 42007010 | pH 1-14 | 7 x 5 |

Universal indicator paper refill pack of 3 reels

- + refill reels for No. 42007010
- + without graduation
- + without plastic box



| Art.No. | Variant | Dimensions approx. (mm x m) |
|----------|---------|-----------------------------|
| 42008010 | pH 1-14 | 7 x 5 |

Bench protective paper for laboratory tables

- + packaged in 100 sheets/pack



Made with an absorbent paper and with a PE film coating on one side, which allows an efficient protection of laboratory benches against acids, toxic, corrosive or radioactive fluids.

| Art.No. | Dimensions approx. (mm) | Cellulose weight (g/m ²) | PE weight (g/m ²) | Absorption capacity (ml/m ²) |
|----------|-------------------------|--------------------------------------|-------------------------------|--|
| 44080042 | 400 x 520 | 100-375 | 25-35 | 240-750 |
| 44080046 | 460 x 570 | 100-375 | 25-35 | 240-750 |
| 44080050 | 500 x 600 | 100-375 | 25-35 | 240-750 |

Litmus paper blue

- + pH indicator 100 strips per booklet

Acid-Base Indicator:

Changes colour from blue to red when conditions change from alkaline to acidic. Litmus paper is the best known indicator paper for neutralization analysis.



| Art.No. | Variant | Dimensions approx. (mm) |
|----------|----------|-------------------------|
| 42005010 | pH 8 - 5 | 10 x 75 |

Litmus paper red

- + pH indicator 100 strips per booklet

Acid-Base Indicator:

Changes colour from red to blue when conditions change from acidic to alkaline.



| Art.No. | Variant | Dimensions approx. (mm) |
|----------|----------|-------------------------|
| 42006010 | pH 5 - 8 | 10 x 75 |

pH-instrument, digital with temperature measurement

- + IP65 water proof
- + one touch auto-calibration
- + HOLD function
- + dual display
- + with automatic temperature compensation i. e. measurement results are not falsified even at different temperatures
- + for testing in containers with lim. opening size
- + 1 - 3-point calibration
- + battery low indicator
- + incl. storage solution and batteries



Electrode: fix mounted 120 mm long pH electrode with small diameter of 12 mm
Power supply: 2x CR2032 battery

| Art.No. | Measuring range | Temperature range | Resolution | Dimensions (mm) | Weight (g) | Colour |
|----------|-----------------|----------------------------------|----------------------------|-----------------|------------|--------|
| 43255010 | 0-14 : 0.1 pH | 0°C to +60°C/ +32°F to +140°F | 0.01 pH/0.5°C or 32.9°F | 225 x 35 x 20 | 69 | blue |

pH buffer solution for pH-instrument

pH buffer solution N.I.S.T-Certificate in patent bottle:

- + 250 ml ergonomic bottle with built-in dosing compartment and value table depending on temperature for an accurate calibration
- + economical, using just the proper amount per calibration
- + coloured for an easier identification
- + immune to micro-organisms
- + actual value and expiration date printed on the bottle
- + actual value referred to N.I.S.T. Reference material and expiration date reported on the certificate



pH buffer solution with certificate of analysis in sachets:

- + boxes with 20 sachets in 25 ml of the same solution
- + sachets for single use
- + every sachet well identifiable with own colour
- + every box with certificate of analysis and sachet holder
- made of carton box
- + all solutions are traceable to N.I.S.T. and noted on certificate

| Art.No. | pH | Capacity (ml) | Colour | Variant |
|----------|--------------|---------------|------------|---|
| 43255220 | 4.01 ± 0.01 | 250 | red | with N.I.S.T-Certificate in patent bottle |
| 43255230 | 7.00 ± 0.01 | 250 | green | with N.I.S.T-Certificate in patent bottle |
| 43255240 | 10.01 ± 0.02 | 250 | colourless | with N.I.S.T-Certificate in patent bottle |
| 43255320 | 4.01 ± 0.01 | 20 à 25 | red | with certificate of analysis in sachets |
| 43255330 | 7.00 ± 0.01 | 20 à 25 | green | with certificate of analysis in sachets |
| 43255340 | 10.01 ± 0.02 | 20 à 25 | yellow | with certificate of analysis in sachets |

Glass fibre round filter

Chemical resistance to most organic and inorganic solvents.
Safe filtration of aggressive solutions, as well as strong acids and bases.

- + temperature-stable up to 200°C/ 392°F
- + fast filtering
- + smooth surface
- + packed of 100 pieces

Filtration speed: 15 s

Retention capacity: 0.6 µm

Paper weight: 70 g/m²

Thickness: 0.35 mm



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41245005 | 55 |
| 41245007 | 70 |
| 41245009 | 90 |
| 41245011 | 110 |
| 41245012 | 125 |
| 41245015 | 150 |
| 41245018 | 185 |

Round filter

ash-free for quantitative routine analysis

E.g. for gravimetric analysis of substances or quantitative determination of sediment.

- + medium-fast filtering
- + smooth
- + packed of 100 pieces

Filtration speed: 27 s

Retention capacity: 4 - 12 µm

Paper weight: 85 g/m²

Thickness: 0.2 mm



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41257005 | 55 |
| 41257007 | 70 |
| 41257009 | 90 |
| 41257011 | 110 |
| 41257012 | 125 |
| 41257015 | 150 |
| 41257018 | 185 |

Filter paper sheets

round filter for qualitative analyses

+ medium fast (DIN 53137)

+ grained

+ packed of 100 pieces

Filtration rate: 10 - 12 s

Paper weight: 75 g/m²

Thickness: 0.25 mm



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41255005 | 55 |
| 41255007 | 70 |
| 41255009 | 90 |
| 41255011 | 110 |
| 41255012 | 125 |
| 41255015 | 150 |
| 41255018 | 185 |

Filter paper sheets

round filter for qualitative analyses

Suitable for most laboratory applications,

e.g. for clarifying liquids or determining dry masses

+ packed of 100 pieces.

Filtration speed: 22 s

Retention capacity: 4 - 12 µm

Paper weight: 70 g/m²

Thickness: 0.16 mm



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41256005 | 55 |
| 41256007 | 70 |
| 41256009 | 90 |
| 41256011 | 110 |
| 41256012 | 125 |
| 41256015 | 150 |
| 41256018 | 185 |

Filter paper sheets

+ medium fast (DIN 53137)

+ smooth

+ packed of 100 pieces

Thickness: 0.15 mm

Paper weight: 70 g/m²

Filtration speed: 20 s



| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41250045 | 45 x 45 |
| 41250058 | 58 x 58 |

Pleated filter



+ medium fast filtration (DIN 53137)

+ pack of 100 pieces

+ smooth

suitable for the analysis of fats
(due to low ether-soluble residue)

Filtration speed: 22 s

Paper weight: 70 g/m²

Thickness: 0.16 mm

| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41260011 | 110 |
| 41260012 | 125 |
| 41260015 | 150 |
| 41260018 | 185 |
| 41260024 | 240 |
| 41260027 | 270 |
| 41260032 | 320 |
| 41260038 | 385 |

Pleated filter for qualitative analyses



Suitable for most laboratory applications, e.g. for clarifying liquids or determining dry masses.

+ medium-fast filtering

+ smooth

+ packed of 100 pieces

Filtration speed: 22 s

Paper weight: 70 g/m²

Thickness: 0.16 mm

| Art.No. | Diameter approx. (mm) |
|----------|-----------------------|
| 41261011 | 110 |
| 41261012 | 125 |
| 41261015 | 150 |
| 41261018 | 185 |
| 41261024 | 240 |
| 41261027 | 270 |
| 41261032 | 320 |
| 41261038 | 385 |

Phosphorus spoon

made of

stainless steel



| Art.No. | Spoon Ø approx. (mm) | Total length approx. (mm) |
|----------|----------------------|---------------------------|
| 42515010 | 20 | 450 |

Spoon spatula

made of

stainless steel



+ chrome-nickel steel

| Art.No. | Spoon dimensions (mm) | Spatula dimensions (mm) | Total length approx. (mm) |
|----------|-----------------------|-------------------------|---------------------------|
| 42520001 | 36 x 26 | 32 x 22 | 150 |
| 42520002 | 40 x 28 | 36 x 26 | 180 |
| 42520003 | 40 x 28 | 36 x 26 | 210 |

Stirring rods made of glass

both ends fused



+ soda-lime glass

+ water resistance class 3

+ acid resistance class 1

+ alkali resistance class 2

| Art.No. | Length approx. (mm) | Diameter approx. (mm) |
|----------|---------------------|-----------------------|
| 42850006 | 150 ± 5 | 4 ± 0.15 |
| 42850012 | 150 ± 5 | 5 ± 0.15 |
| 42850018 | 150 ± 5 | 6 ± 0.15 |
| 42850024 | 200 ± 5 | 3 ± 0.10 |
| 42850030 | 200 ± 5 | 4 ± 0.15 |
| 42850036 | 200 ± 5 | 5 ± 0.15 |
| 42850042 | 200 ± 5 | 6 ± 0.15 |
| 42850048 | 250 ± 5 | 4 ± 0.15 |
| 42850054 | 250 ± 5 | 6 ± 0.15 |
| 42850060 | 250 ± 5 | 7 ± 0.20 |
| 42850066 | 300 ± 5 | 7 ± 0.20 |
| 42850072 | 300 ± 5 | 8 ± 0.20 |
| 42850078 | 300 ± 5 | 9 ± 0.20 |
| 42850084 | 500 ± 5 | 12 ± 0.25 |

Radiometers

(Light mills, Crooke's radiometers)

+ made of glass

A radiometer – also known as a light mill – consists of a glass bulb with a partial vacuum and a revolving rotor with black and light-coloured blades. When light hits the blades, the black side heats up more than the light side. This creates higher pressure from the remaining air molecules on the black side. These molecules collide more strongly with the blades and drive the rotor. In this way, the radiometer converts light energy into a visible rotational movement.



| Art.No. | Dimensions approx. (mm) | Weight approx. (g) |
|----------|-------------------------|--------------------|
| 42757002 | 130 x 80 Ø | 47 |

Silicone stopcock grease medium viscosity

Excellent heat and cold resistance without considerable change of the consistency between -50 °C and +150 °C/-58 °F and +302 °F.

Resting penetration according to Klein in 1/10 mm: 270 (medium)

Density at 25°C/ 77°F: approx.. 1.0 g/cm³

Temperature application range: -40°C up to +200°C/ -40°F up to 392°F

Freezing point: approx. -45°C/ -49°F

Thermal conductivity according to DIN 52612: approx. 0.15 W m⁻¹ K⁻¹

Specific resistance at 25°C/ 77°F: approx: 10¹³ Ω cm

- + mostly temperature-independent consistency
- + colourless, odourless, non-toxic
- + thixotropic behaviour
- + hydrophobic behaviour
- + insoluble in water, resistant to seawater and hot steam
- + good electrical insulation and good dielectric behaviour
- + inert to many chemicals, resistant to microorganisms
- + good adhesion, good lubricating and sliding properties as well as good release properties

The paste is used as a lubricant and release agent for e.g. valves, seals, ground joints, equipment, cables and pipes. It is also frequently used as an assembly aid, protective and sealing paste.

The paste is also ideal for maintaining rubber seals. In electrical engineering, KORASILON® paste medium viscosity is used for the assembly of insulators and switchgear, among other things.



| Art.No. | Capacity approx. (g) | Material tube |
|----------|----------------------|---------------|
| 41480035 | 35 | Aluminium |

Allihn condensers with side glass olives

- + DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + for distillate separation

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|------------|----------|
| 51987008 | 160 | 14/23 | 14/23 | Glass | 1 |
| 51987010 | 250 | 14/23 | 14/23 | Glass | 1 |
| 51987032 | 250 | 24/29 | 24/29 | Glass | 1 |
| 51987040 | 250 | 29/32 | 29/32 | Glass | 1 |
| 51987042 | 300 | 29/32 | 29/32 | Glass | 1 |
| 51987044 | 400 | 14/23 | 14/23 | Glass | 1 |
| 51987048 | 400 | 24/29 | 24/29 | Glass | 1 |
| 51987056 | 400 | 29/32 | 29/32 | Glass | 1 |



BASIC Boro 3.3

Allihn condensers with side threaded connection and screw connection (PP)

- + with DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + interchangeable inner and outer joints come with plastic screw thread connector
- + for distillate separation

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|--------------|----------|
| 51988002 | 160 | 14/23 | 14/23 | Screw thread | 1 |
| 51988012 | 250 | 14/23 | 14/23 | Screw thread | 1 |
| 51988013 | 250 | 24/29 | 24/29 | Screw thread | 1 |
| 51988015 | 250 | 29/32 | 29/32 | Screw thread | 1 |
| 51988017 | 300 | 29/32 | 29/32 | Screw thread | 1 |
| 51988018 | 400 | 14/23 | 14/23 | Screw thread | 1 |
| 51988020 | 400 | 24/29 | 24/29 | Screw thread | 1 |
| 51988022 | 400 | 29/32 | 29/32 | Screw thread | 1 |



BASIC Boro 3.3

Liebig condensers

with side glass olives

- + DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + for distillate separation

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|------------|----------|
| 51982008 | 160 | 14/23 | 14/23 | Glass | 1 |
| 51982012 | 250 | 14/23 | 14/23 | Glass | 1 |
| 51982013 | 250 | 24/29 | 24/29 | Glass | 1 |
| 51982014 | 250 | 29/32 | 29/32 | Glass | 1 |
| 51982015 | 400 | 14/23 | 14/23 | Glass | 1 |
| 51982028 | 400 | 24/29 | 24/29 | Glass | 1 |
| 51982056 | 400 | 29/32 | 29/32 | Glass | 1 |



BASIC

Boro 3.3

Liebig condensers

with side threaded connection and screw connection (PP)

- + DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + interchangeable inner and outer joints come with plastic screw thread connector
- + For distillate separation



BASIC

Boro 3.3

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|--------------|----------|
| 51983002 | 160 | 14/23 | 14/23 | Screw thread | 1 |
| 51983012 | 250 | 24/29 | 24/29 | Screw thread | 1 |
| 51983013 | 250 | 14/23 | 14/23 | Screw thread | 1 |
| 51983015 | 250 | 29/32 | 29/32 | Screw thread | 1 |
| 51983018 | 400 | 14/23 | 14/23 | Screw thread | 1 |
| 51983020 | 400 | 24/29 | 24/29 | Screw thread | 1 |
| 51983022 | 400 | 29/32 | 29/32 | Screw thread | 1 |

Graham condensers with side glass olives

- + DIN 12592
- + highly efficient with large cooling surface
- + suitable for distillation and reflux applications

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|------------|----------|
| 51990108 | 160 | 14/23 | 14/23 | Glass | 1 |
| 51990140 | 250 | 29/32 | 29/32 | Glass | 1 |
| 51990156 | 400 | 29/32 | 29/32 | Glass | 1 |



BASIC

Boro 3.3

Graham condensers with side threaded connection and screw connection (PP)

- + DIN 12592
- + interchangeable inner and outer joints come with plastic screw thread connector
- + highly efficient with large cooling surface
- + suitable for distillation and reflux applications

| Art.No. | Length (mm) | Socket size | Cone size | Connection | PU (pcs) |
|----------|-------------|-------------|-----------|--------------|----------|
| 51990008 | 160 | 14/23 | 14/23 | Screw thread | 1 |
| 51990040 | 250 | 29/32 | 29/32 | Screw thread | 1 |
| 51990056 | 400 | 29/32 | 29/32 | Screw thread | 1 |



BASIC

Boro 3.3

Allihn condensers for Soxhlet, with side glass olives

- + DIN 12602
- + for separating the extract from the liquid or solid
- + this method enables effective separation with relatively small amounts of solvent
- + ideal for reflux processes on a laboratory scale

| Art.No. | for extractor capacity (ml) | Cone size | Connection | PU (pcs) |
|----------|-----------------------------|-----------|------------|----------|
| 51153029 | 30 | 29/32 | Glass | 1 |
| 51153034 | 70 | 34/35 | Glass | 1 |
| 51153045 | 100/250 | 45/40 | Glass | 1 |
| 51153048 | 500 | 45/40 | Glass | 1 |



BASIC

Boro 3.3

Allihn condensers

for Soxhlet, with side threaded connection and screw connection (PP)

- + DIN 12602
- + for separating the extract from the liquid or solid
- + this method enables effective separation with relatively small amounts of solvent
- + ideal for reflux processes on a laboratory scale

| Art.No. | for extractor capacity (ml) | Cone size | Connection | PU (pcs) |
|----------|-----------------------------|-----------|--------------|----------|
| 51153129 | 30 | 29/32 | Screw thread | 1 |
| 51153134 | 70 | 34/35 | Screw thread | 1 |
| 51153145 | 100/250 | 45/40 | Screw thread | 1 |
| 51153148 | 500 | 45/40 | Screw thread | 1 |



BASIC

Boro 3.3

Dimroth condensers

for Soxhlet, with side glass olives

- + DIN 12591
- + for separating the extract from the liquid or solid
- + this method enables effective separation with relatively small amounts of solvent
- + ideal for reflux processes on a laboratory scale

| Art.No. | for extractor capacity (ml) | Cone size | Connection | PU (pcs) |
|----------|-----------------------------|-----------|------------|----------|
| 51154029 | 30 | 29/32 | Glass | 1 |
| 51154034 | 70 | 34/35 | Glass | 1 |
| 51154045 | 100/250 | 45/40 | Glass | 1 |



BASIC

Boro 3.3

Dimroth condensers

for Soxhlet, with side threaded connection and screw connection (PP)

- + DIN 12602
- + for separating the extract from the liquid or solid
- + this method enables effective separation with relatively small amounts of solvent
- + ideal for reflux processes on a laboratory scale

| Art.No. | for extractor capacity (ml) | Cone size | Connection | PU (pcs) |
|----------|-----------------------------|-----------|--------------|----------|
| 51154129 | 30 | 29/32 | Screw thread | 1 |
| 51154134 | 70 | 34/35 | Screw thread | 1 |
| 51154145 | 100/250 | 45/40 | Screw thread | 1 |



BASIC

Boro 3.3

Soxhlet-Extractor apparatus without stopcock

- + DIN 12602
- + for separating the extract from the liquid or solid
- + this method enables effective separation with relatively small amounts of solvent
- + ideal for reflux processes on a laboratory scale

| Art.No. | Capacity (ml) | Socket size | Cone size | PU (pcs) |
|----------|---------------|-------------|-----------|----------|
| 51155006 | 30 | 29/32 | 29/32 | 1 |
| 51155012 | 70 | 34/35 | 29/32 | 1 |
| 51155018 | 250 | 45/40 | 29/32 | 1 |
| 51155048 | 500 | 45/40 | 29/32 | 1 |



BASIC

Boro 3.3

Chromatography columns with sintered disc and rotaflow stopcock

- + rotaflow stopcock improves control over the process and ensures smooth operation
- + equipped with a sintered disc for optimal results
- + generally used for purifying individual substances from mixtures of components

| Art.No. | Length (mm) | Socket size | Diameter (mm) | PU (pcs) |
|----------|-------------|-------------|---------------|----------|
| 51991002 | 200 | 14/23 | 10 | 1 |
| 51991003 | 200 | 14/23 | 15 | 1 |
| 51991008 | 300 | 14/23 | 10 | 1 |
| 51991017 | 400 | 29/32 | 20 | 1 |
| 51991018 | 600 | 29/32 | 30 | 1 |



BASIC

Boro 3.3

Chromatography columns without sintered disc, with rotaflow stopcock

- + rotaflow stopcock improves control over the process and ensures smooth operation
- + generally used for purifying individual substances from mixtures of components

| Art.No. | Length (mm) | Socket size | Diameter (mm) | PU (pcs) |
|----------|-------------|-------------|---------------|----------|
| 51992001 | 600 | 29/32 | 30 | 1 |



BASIC

Boro 3.3

Rotating mixers Type: RM 5



Tumbling rotating mixer with five synchronous, diagonally eccentric and removable PVC rolls. These bottles are rotating around its long axis and rocking along its contact surface.

Each roll can be removed individually to provide using of bigger cylindrical tubes or bottles (up to 5l)

The speed is continuously adjustable



This device is specially designed for the consistent mixing of test samples (e.g. whole blood) for haematological determinations and for the gentle mixing of other cell suspensions. It also prevents sedimentation or dispersion of samples of all kinds such as paints, varnishes etc.

MADE IN GERMANY

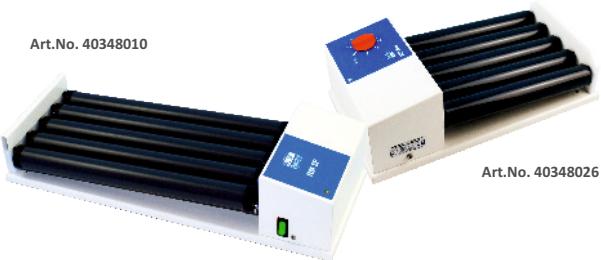
| | | |
|--------------------------|--------------------|---------------------|
| Art.No. | 40347010 | 40347020 |
| Rotating speed | approx. 4 - 30 rpm | approx. 10 - 70 rpm |
| Power | 15W | 15W |
| Roll Ø (mm) | 32 | 32 |
| Roll length (mm) | 330 | 330 |
| Dimensions (mm) | 180 x 480 x 110 | 180 x 480 x 113 |
| Max. loading weight (kg) | 5 | 5 |
| Variant | RM 5 | RM 5 |

Rotating mixers with integral rolls



Tumbling rotating mixer with five synchronous, diagonally eccentric PVC rolls. Perfectly suited for the smooth mixing of liquids in cylindrical containers. Permanently set speed of 40 rpm for Art.No. 40348010

Five synchronously running, diagonally eccentrically mounted, permanently installed PVC rollers at an inclination angle of 3° form a uniformly tumbling support surface on which the sample vials rotate around their longitudinal axis and are simultaneously tilted along their support surface. This ensures uniform and gentle mixing of samples for haematological determinations (e.g. whole blood) and other cell suspensions. The continuous rotation also prevents sedimentation or dispersion of samples of all kinds.



Scope of delivery:

Roller mixer, operating instructions, mains adapter, 4 adapters (AU, EU, UK, US)

MADE IN GERMANY

| | | |
|--------------------------|-----------------|----------------------------|
| Art.No. | 40348010 | 40348026 |
| Dimensions (mm) | 180 x 480 x 110 | 180 x 480 x 113 |
| Weight (kg) | 3.7 | 3 |
| Roll Ø (mm) | 32 | 32 |
| Roll length (mm) | 330 | 216 |
| Roll distance (mm) | 36 | 36 |
| Max. loading weight (kg) | 5 | 5 |
| Rotation speed | approx. 40 rpm | approx. 4 - 30 rpm |
| Power | 15W | 15W |
| Power supply | 24 VDC | 24 VDC |
| Variant | RM 5 F | RM 5 K |
| Motor | BLDC | maintenance-free motor 24V |

Tumbling rotating mixer Type: RM10
with wide speed range

CE



Ten synchronously rotating PVC rolls provide a uniform and gently tumbling mixing of the tubes etc.

The bottles are being rotated around their long axis and rocked along their 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.

Roller mixer with 10 removable rollers.
The speed is continuously adjustable.

MADE IN GERMANY

| | | |
|--------------------------|--------------------|---------------------|
| Art.No. | 40349018 | 40349020 |
| Dimensions (mm) | 180 x 480 x 113 | 180 x 480 x 113 |
| Weight (kg) | 6.5 | 6.5 |
| Roll Ø (mm) | 32 | 32 |
| Roll length (mm) | 330 | 330 |
| Max. loading weight (kg) | 5 | 5 |
| Rotating speed | approx. 4 - 30 rpm | approx. 10 - 70 rpm |
| Power | 15W | 15W |
| Power supply | 24 VDC | 24 VDC |
| Variant | RM 10 | RM 10 |
| Motor | BLDC | BLDC |

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 a uniform, horizontal and circular rotation at every point of the supporting device.

A toggle switch permits different functions: "0" = "OFF", "1" = "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.



MADE IN GERMANY

| | |
|--------------------|---|
| Art.No. | 40348018 |
| Dimensions (mm) | 150 x 160 x 103 |
| Weight (kg) | 4.7 |
| Voltage | 230V, 50Hz, 40W |
| Cable Length (m) | approx. 1.5 (with plug) |
| Platform size (mm) | 200 x 400 |
| Motor | Capacitor motor |
| Shaking rate | steplessly adjustable from 100 - 1100 rpm |

upon request 115 VAC 60Hz available

Test tube shaker Reamix



Test tube shakers VM2, electronic, steplessly adjustable speed, circular shaking motion / with dual function (pressure on the receiving disc or continuous operation) small model, for one test tube 5 to 30 mm Ø



2 operating modes:
manual (one-hand operation) or permanent (continuous operation), mounting disc made of chemical-resistant PP, durable stainless steel cover with CE marking, with overheating and overload protection

MADE IN GERMANY

| | |
|---------------------|--------------------------|
| Art.No. | 42789020 |
| Shaking rate | 1.7 - 46.6Hz |
| Nominal voltage | 230V/50Hz |
| Weight (kg) | 1.1 |
| Dimensions (mm) | 110 x 100 x 90 |
| Rotation speed | 100 - 2800 rpm |
| Ambient temp. range | +5°C/41°F to +40°C/104°F |

Sand bath TS with bath attachment for heating sand and liquid substances of all kind



The bath attachment connected with the device is made of stainless steel.

The temperature regulation is controlled by a thermal sensor. Setup according to VDE. With cable, 1.5 metres, and safety plug. Bath approx. 140 x 140 x 55 mm inside

Operating mode: continuous operation
square heating surface

MADE IN GERMANY

| | |
|---------------------------|-------------------------------|
| Art.No. | 42081010 |
| Capacity (ml) | 1000 |
| Dimensions (mm) | 155 x 157 x 165 |
| Weight (kg) | 1.8 |
| Voltage | 230V 50/60Hz* |
| Power consumption | 600W |
| Temperature control range | Room temp. up to +330°C/626°F |

*also other options available

Mini magnetic stirrer anodised heating plate, energy-saving device with heating



Power consumption: 6 W
Motor: stepper motor
Mains switch: with indicator light
Heating plate: Aluminium anodized
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
Operating mode: continuous operation

MADE IN GERMANY

| | |
|------------------|-------------------------------|
| Art.No. | 42073004 |
| Cable length (m) | 1.5 |
| Dimensions (mm) | 100 x 100 x 83 |
| Heating power | 160W |
| Voltage | 230V 50Hz / 45W* |
| Capacity | up to 1 l (liquid) |
| Weight (kg) | 1.2 |
| Motor | Stepper motor 6W |
| Rotating speed | steplessly from 10 - 1200 rpm |

*110V also available

Magnetic stirrers with CERAN® heating plate, fully electronic speed and temperature control



- + square CERAN® hotplate
- + possibility of connecting a PT-100 temperature sensor
- + fully electronic control of the speed and the heating plate temperature, microprocessor-controlled and with digital display and timer function
- + heating plate dimensions: approx. 135 x 135 mm
- + mains switch and heating plate switch with LED

Temperature control:

stepless from room temperature to +250°C/482°F

Operating mode: continuous operation

MADE IN GERMANY

| | |
|------------------|--|
| Art.No. | 42072012 |
| Cable length (m) | 1.5 |
| Dimensions (mm) | 210 x 145 x 110 |
| Heating power | 600W |
| Power | 230V 50/60Hz / 25W |
| Capacity | up to 10 l (liquid) |
| Weight (kg) | 2.6 |
| Motor | Shaded pole motor |
| Rotating speed | steplessly adjustable from 60 - 1600 rmp |

Magnetic stirrer with heating plate made of stainless steel, circular, fully electronic speed and temperature control

Cable: 1.5 m long with Schuko plug

Operating mode: continuous operation

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.



- + with digital display and timer function
- + option to connect a PT-100 temperature sensor
- + 4-digit LED display
- + mains switch and heating plate switch with LED
- + diameter of the heating plate approx. 130 mm
- + temperature control: infinitely variable from room temperature to +350°C/+662°F



MADE IN GERMANY

| | |
|------------------|--|
| Art.No. | 42071012 |
| Cable length (m) | 1.5 |
| Dimensions (mm) | 210 x 145 x 110 |
| Heating power | 500W |
| Power | 230V 50Hz / 25W* |
| Capacity | up to 10 litres (liquid) |
| Weight (kg) | 2.6 |
| Motor | Shaded pole motor |
| Rotating speed | steplessly adjustable from 60 - 1600 rmp |

*110V also available

MAGNETMIX - Magnetic stirrer with CERAN® heating plate



Square CERAN®- heating plate

Dimensions of heating plate: approx. 135 x 135 mm

Operating mode: continuous operation

MADE IN GERMANY

| | |
|-----------------|--|
| Art.No. | 42072004 |
| Dimensions (mm) | 155 x 160 x 110 |
| Heating power | 600W |
| Power | 230V 50/60Hz / 25W |
| Capacity | up to approx. 10 l (liquid) |
| Weight (kg) | 2.4 |
| Rotating speed | steplessly adjustable from 80 - 1600 rmp |

MAGNETMIX - Magnetic stirrer with heating plate made of stainless steel, circular



Operating mode: continuous operation

Diameter of heating plate: approx. 130 mm

Temperature control: infinitely variable

from room temperature to +330°C/+626°F

Cable: 1.5 m long with Schuko plug

+ mains switch with indicator light

+ indicator light for heating plate

+ lower part varnished, acid and alkali resistant

+ precise, electronic speed control, according to VDE

| | |
|------------------|--|
| Art.No. | 42071004 |
| Cable length (m) | 1.5 |
| Dimensions (mm) | 155 x 160 x 115 |
| Heating power | 500W |
| Power | 230V 50Hz / 40W |
| Capacity | up to 10 litres (liquid) |
| Weight (kg) | 2.4 |
| Motor | Shaded pole motor |
| Rotating speed | steplessly adjustable from 80 - 1600 rmp |

MADE IN GERMANY

Magnetic stirrer without heating

+ mains switch with indicator light

+ without heating

Cable: 1.5 m long with Schuko plug

Operating mode: continuous operation



+ low-noise motor with electronic speed control

+ with stainless steel cover plate

+ lower part varnished, acid resistant

+ precise, electronic speed control, according to VDE

| | | |
|------------------|--|--|
| Art.No. | 42070004 | 42070036 |
| Variant | MAGNETMIX | Mini magnetic stirrer |
| Cable length (m) | 1.5 | 1.5 |
| Dimensions (mm) | 157 x 157 x 80 | 115 x 100 x 58 |
| Power | 230V 50Hz / 40W | 230V 50Hz / 4W |
| Capacity | up to 10 l (liquid) | up to 1 l (liquid) |
| Weight (kg) | 1.8 | 0.7 |
| Motor | Shaded pole motor | Stepper motor |
| Rotation speed | steplessly adjustable from 60 - 1600 rmp | steplessly adjustable from 50 - 1200 rmp |

MADE IN GERMANY





Stirrers

with electronic speed control, for capacities up to 50 litres



The robust laboratory agitator is directly powered and is ideal for stirring tasks of up to 50 litres (liquid), e.g. in schools and laboratories.

Small dimensions, large capacity range. Also suitable for highly viscous solutions.

Suitable stirring rod:

6-10 mm shaft Ø

Power output: 85 W

Operating mode: short-time operation

MADE IN GERMANY

| | |
|------------------------|---|
| Art.No. | 42068018 |
| Cable length (m) | 1.5 |
| Dimensions (mm) | 65 x 120 x 200 |
| Capacity of chuck (mm) | 1 - 10.5 |
| Power | 230V 50Hz / 40W |
| Capacity | 50 l |
| Weight (kg) | 2.2 |
| Motor | Shaded pole motor |
| Rotating speed | steplessly adjustable from 100 - 2000 rmp |

Stirring rods made of polystyrene



- + crystal clear
- + optimally stirring rod for a wide variety of laboratory applications
- + packed of 500 pieces

| | |
|-------------------|----------|
| Art.No. | 42067001 |
| Total length (mm) | 120 |
| Diameter (mm) | 2.5 |
| Rod width (mm) | 3 |

Magnetic stirring bars octagonal, PTFE-coated

- + axially magnetised centre
- + suitable for high, slim vessels such as measuring cylinders, jars etc.
- + universal chemical resistance
- + temperature resistance -200°C to +250°C



Retrievers PTFE-coated



- + universal chemical resistance for removing stirring bars from aggressive liquids, prevents of stirring bars.

| | |
|-------------------|----------|
| Art.No. | 42076010 |
| Total length (mm) | 350 |
| Diameter (mm) | 8 |

With powerful magnet at the bottom end for removing the magnetic stirring bar from the liquid.

| Art.No. | Length (mm) | Diameter (mm) |
|----------|-------------|---------------|
| 42075001 | 12 | 4.5 |
| 42075002 | 15 | 4.5 |
| 42075003 | 20 | 6 |
| 42075004 | 25 | 6 |
| 42075005 | 30 | 6 |
| 42075006 | 40 | 8 |
| 42075007 | 50 | 8 |
| 42075008 | 60 | 10 |
| 42075009 | 70 | 10 |

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