

Take samples – but do it right!

Taking samples

When taking samples, a random test is taken from an overall quantity. These samples serve as the basis for the analysis regarding quality assurance. The correct procedure for taking spot samples is therefore a very important subject. Only with representative and authentic samples can reliable information about the quality, properties or composition of a particular material be provided.

Very precise material analyses can be carried out with the most up-to-date technology. However, the technology is no good if an error occurs when the sample is taken and this error continues through all phases of the analysis, with the consequence that the final result of the quality check is wrong.

Correct information about the properties of a material can only be provided if the sample is taken properly and treated in the same way as in the subsequent analysis. The basic point is that the properties and composition of the sample quantity correspond exactly with the material quantity that has to be evaluated.



Taking samples - but how?

When taking samples, some essential stipulations such as DIN-standards have to be complied with. The recommendation is to follow a company-internal checklist which should be a fixed component of a company's quality standards. All relevant steps for taking samples are documented in this checklist so that they can be traced at any time.

Location for taking samples

The location from where the samples are taken has to be as clean as possible. At the very least, the use of clean samplers, equipment and tools has to be considered. During the procedure, no external factors must influence the sampling. Even small external contamination can significantly alter the examination result. Detergents which are used to clean the samplers or the sample packaging can also falsify the result of the analysis.



Taking samples - but who? - Qualified personnel

Only skilled personnel should take the samples. It must be guaranteed that sampling is carried out exactly in accordance with the stipulated DIN-standards or internal guidelines.

Technical knowledge is of utmost importance because altered circumstances can only be reacted to on-site. Only trained personnel can quickly and safely recognise mistakes that occur or altered circumstances and react accordingly.

Taking samples - with what? - Sampling equipment

Choosing the right sampling equipment depends on many different selection criteria. It depends on the material properties of the sampler as well as on the type of sampling, the container or the site where the material is located, and the frequency with which the



sampling has to be carried out. In addition to individual requirements for sampling, all equipment should fulfil the basic principles explained below:

Sampler material

The equipment should be made of inert substances from which no material can come loose and which does not react with other substances and therefore cannot

contaminate the sample. The inert substance depends on the medium to be sampled. As a general rule, samplers made of stainless steel and high-quality plastic such as PTFE are very suitable.

Cleaning the sampling equipment

It should be easy and quick to clean the equipment and – under certain conditions – to sterilise it. In the food industry, sterile-packed disposable samplers are recommended which can be disposed of after use.

Processing the samplers

Samplers must not have any grooves or crevices because residual material collects in such crevices and cannot be easily removed. This means that cross-contamination and memory effects can no longer be ruled out.

Surface of the equipment

The samplers' surfaces have to be especially smooth, for example, electro-polished stainless steel or PTFE. This prevents material from being deposited and simplifies cleaning. When selecting the appropriate sampling equipment, you must ensure that it is finished properly on the inside. Equipment with only a smooth external surface will not meet any quality standards.

Sampling techniques – physical and analytical sampling

A distinction is made between physical and analytical/chemical sampling.

During **physical sampling**, the bulk density, material distribution, material properties and – if required – colouring or contamination are determined. It is especially important in this case that the sampler does not change or destroy the material's properties while taking the sample. A sample taken onsite still has to be transported. During packing and transport, the same high quality standards should apply as during sampling, so that the sample reaches the laboratory unaltered.

During **analytical sampling**, special attention must be paid to cleanliness in addition to the aspects listed above. However, the material properties can be disregarded at times because the sample will be specially processed. In this case, equipment can be used which changes the physical properties of the material.

Any questions?

We will be happy to advise you.

Talk to us - telephone +49 7635 6121-0.

Or send an email to info@buerkle.de.

Bürkle GmbH - your partner for all questions about manual sampling.



More information about
„Take samples – but do it right!“:
www.buerkle.de/en/knowhow/take-samples-but-do-it-right

Zone samplers | for all kinds of bulk goods



1. Multi sampler (closed chambers)
2. All layer sampler (open inner tube)
3. Uno sampler (one closed chamber)

Bürkle zone samplers are used for taking samples of bulk goods of any kind.

The big advantage of zone samplers is that all-layer samples can be collected from all layers of the container.

Various bulk goods can be collected with the lances, from the finest powder to large grains such as corn or nuts.

The zone samplers are available in different lengths. 55 cm (only Multi, Uno and All-layer sampler) especially suitable for sacks, 85 cm long (especially for barrels, tubs, mixed containers) and 150 cm as well as 250 cm (only Jumbo sampler) for big bags, silos, tanks.

Safe and reliable sampling is made even easier with useful special accessories such as sealing sleeves, Quali-Paper, cleaning brushes, emptying devices and close-it control seals.

The zone samplers are available in different models for different sampling tasks.

- ▶ Smallest possible gap between the inner and the outer tube
- ▶ Easy cleaning, removable tip
- ▶ Colour coding (Multi and Uno sampler)
- ▶ Ultra-pure materials
- ▶ Excellent processing, robust model



Colour coding: Identification to prevent mixing up multi samplers and single samplers.



Zone samplers | for all kinds of bulk goods



All-layer sampler, with open inner tube, no separate chambers, and large sampling volume. For all-layer samples through all the layers of the sample.

- ▶ Aluminium or AISI 316L (1.4404)
- ▶ 25 mm Ø



Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, vetches).



Multi sampler with several closed chambers, for multi point sampling from several predetermined sampling depths.

- ▶ Aluminium, AISI 316L (1.4404) or AISI 316L/PTFE
- ▶ Version made of AISI 316L (1.4404)/PTFE with low weight due to PTFE sample chambers
- ▶ With colour coding system
- ▶ 25 mm Ø



Uno sampler made of stainless steel AISI 316L (1.4404)/PTFE with a closed sample chamber for point sampling from a predetermined sampling depth.

- ▶ Outer tube stainless steel AISI 316L (1.4404), sample chambers made of PTFE
- ▶ With colour coding system
- ▶ 25 mm Ø



close-it seals see p. 78

All-layer-sampler

Material	Total length cm	Insertion depth mm	No. of openings	Chamber volume ml	Item no.
aluminium	55	430	3	70	5317-2055 N4
aluminium	85	710	3	130	5317-2085 N4
aluminium	150	1355	5	260	5317-2150 N4
AISI 316L	55	430	3	70	5316-2055 N4
AISI 316L	85	710	3	130	5316-2085 N4
AISI 316L	150	1355	5	260	5316-2150 N4

Multi sampler

Material	Total length cm	Insertion depth mm	Number of collection chambers	Chamber volume ml	Item no.
aluminium	55	430	3	14	5317-1058 N4
aluminium	85	710	3	17	5317-1085 N4
aluminium	150	1355	5	17	5317-1150 N4
AISI 316L	55	430	3	14	5316-3055 N4
AISI 316L	85	710	3	17	5316-3085 N4
AISI 316L	150	1355	5	17	5316-3150 N4
AISI 316L/PTFE	55	430	3	14	5316-0055 N4
AISI 316L/PTFE	85	710	3	17	5316-0085 N4
AISI 316L/PTFE	150	1355	5	17	5316-0150 N4

Uno sampler

Material	Total length cm	Insertion depth mm	Number of collection chambers	Chamber volume ml	Item no.
AISI 316L/PTFE	55	430	1	17	5316-1055 N4
AISI 316L/PTFE	85	710	1	17	5316-1085 N4
AISI 316L/PTFE	150	1355	1	17	5316-1150 N4

Use

1. Turn the handle, close the chambers.
2. Insert the sampler to the required depth.
3. Open the chambers, sample flows into the chamber.
4. Close the chambers.
5. Pull out the sampler.
6. Close the insertion opening with the close-it control seal.
7. Empty the chambers onto Quali-Paper or with the emptying device.

Jumbo Sampler



Jumbo sampler with a tube diameter of 50 mm, ideal for coarse grains and larger quantities. With an open inner tube and large sampling volume, for all-layer samples through all layers of the sample or with sample chambers separated by PTFE separators for multi point sampling from several predetermined sampling depths.

- ▶ Aluminium or aluminium/PTFE
- ▶ 50 mm Ø

Jumbo sampler						
Model	Total length cm	Material	Insertion depth mm	No. of openings	Chamber volume ml	Item no.
All layer - open inner tube	95	aluminium	850	3	880	5319-1085 N4
All layer - open inner tube	165	aluminium	1500	5	1700	5319-1150 N4
All layer - open inner tube	265	aluminium	2500	7	2900	5319-1250 N4
Multi - closed chambers	95	aluminium/PTFE	850	3	390	5319-2085 N4
Multi - closed chambers	165	aluminium/PTFE	1500	5	650	5319-2150 N4
Multi - closed chambers	265	aluminium/PTFE	2500	7	910	5319-2250 N4

Depth stop for samplers



The depth stop can be clamped to any height of the sampler by means of a C-clamping screw. This ensures that the sampler penetrates to the same desired depth each time it is pierced. The penetration depth is thus fixed and can be precisely recorded, e.g. in a test report or sampling instructions.

In addition, the depth stop can prevent accidental puncturing during sampling.



Depth stop for samplers			
For dia. mm	Outer dia. mm	Material	Item no.
25	150	1.4404 (V4A)	5317-0015 N4
50	250	Alu, V2A	5317-0020 N4

Accessories for zone samplers



Emptying device



Sealing sleeves zone sampler
25 mm usage



Quali-Paper for zone sampler



Cleaning brushes

Emptying device			
Model	Material	Length cm	Item no.
device with 3 funnels	AISI 304	100	5317-0030 N4
emptying funnel separate	AISI 304		5317-0033 N4
Sealing sleeves			
Dia. mm	Material	Pieces per pack	Item no.
25	PP	3	5317-0011 N4
50	PVC	1	5317-0010 N4
Quali-Paper			
L x W cm		Pieces per pack	Item no.
89 x 23		50	5317-0001 N4
Cleaning brushes			
Dia. mm	Length cm	Material	Item no.
25	40	PVC/stainless steel	5304-0040 N4
25	60	PVC/stainless steel	5304-0060 N4
25	80	PVC/stainless steel	5304-0080 N4
25	100	PVC/stainless steel	5304-0100 N4
50	100	PVC/stainless steel	5304-5100 N4
50	300	PVC/stainless steel	5304-5300 N4

Zone sampler Spiralus

- ▶ Representative sample of the container layers.
- ▶ Aluminium, anodised
- ▶ Tip PA
- ▶ 38 mm Ø
- ▶ Low weight



Zone sampler Spiralus guarantees precise zone sampling through all layers of the sample. The spiral arrangement of the sampling slits means that these are opened one after the other from bottom to top. In this way the lowest opening is filled first and then those above it in sequence until the complete Spiralus has been filled. The shape of the sampling slits prevents seeds from being cut up. The zone sampler Spiralus provides an excellent all-layer sample.

Applications

Spiralus is particularly suitable for sampling coarse-grained bulk goods, seeds and pellets at locations such as soil heaps, warehouses, trucks, railway goods wagons, etc.

Zone sampler Spiralus

Total length cm	No. of openings	Weight g	Chamber volume ml	Item no.
145	8	1400	770	5318-0145 N4
200	8	2000	1100	5318-0200 N4

Accessories

Description	Item no.
Cleaning brushes 50 mm dia., length 1000 mm	5304-5100 N4
Quali-Paper	5317-0001 N4

EasySampler | easy to empty



It is possible to take multiple samples from bulk goods with this sampler quickly and easily.

Emptying has been greatly simplified and in this model takes place via the tip. The advantage: The sample can be emptied directly into the sample container without having to disassemble the EasySampler, in order to obtain a mixed sample for instance. The bulk material must be free-flowing or self-flowing.

- ▶ Stainless steel AISI 316L (1.4404)
- ▶ For sample opening from Ø 52 mm



EasySampler has been developed in cooperation with an international chemical concern based in Ludwigshafen, Germany.

EasySampler

Chamber volume ml	Total length cm	Tube Ø mm	Item no.
60	100	32	5360-0600 N4
200	104,5	32	5360-1000 N4

All-layer drill



The all-layer drill is a special zone collector specifically designed for heavily compacted substances. Often it is very difficult or impossible with conventional zone collectors to penetrate media of this type and take a sample extending through all layers. By contrast, the drilling blades of the all-layer drill burrow easily and quickly to the required depth without expending any great force. This makes it easy to take samples of media, even those with high density, and every type of highly compacted powders and granulates. The all-layer drill thus allows you to take a representative sample through all the layers, even with greatly compressed media. It is ideal for larger containers, mixed containers, big bags, etc. in the building materials, chemical, pharmaceutical, food and luxury items industries.

- ▶ Stainless steel AISI 316L (1.4404)
- ▶ 25-mm diameter



All-layer drill

Material	Total length cm	Insertion depth mm	No. of openings	Chamber volume ml	Item no.
AISI 316L	150	1355	5	260	5310-0150 N4

Accessories

Description	Item no.
Cleaning brushes 25 mm dia., length 100 cm	5304-0100 N4

Core Sampler



Product is patented.

The core sampler can be used to take samples of bulk materials which can easily become stuck or settle during sampling due to their particle form. In comparison to standard all-layer samplers for bulk materials, the two-part core sampler has no gap dimensions in which the medium can become stuck while it is being removed. This makes it possible to take a proper sample of powders and granulates through multiple layers, for example glass balls or metal powders. Depending on the size, the stainless steel sampler can be used for a wide range of different containers, for example big bags or small containers. The bulk material sampler takes a representative core sample and is ideal for use in various laboratory and industrial applications.

- ▶ Stainless steel AISI 316 (1.4404)
- ▶ For bulk materials that become stuck or settle easily
- ▶ Scope of delivery: Core sampler (consisting of boring rod and boring tube), fixing clip

Core Sampler

Length mm	Dia. mm	Volume ml	Item no.
200	15	15	5310-0001 N4
400	25	110	5310-0002 N4
800	25	230	5310-0003 N4

All-layer-scratcher



The scratcher is a special sampler for powders and granules that do not flow freely.

The sample is transferred to the closable inner tube using a scraper. Sliding PTFE separators are used to divide the inner tube into different zones. The separators also prevent the sample from being mixed.

- ▶ For caked bulked goods
- ▶ Zones can be varied due to moveable PTFE separators
- ▶ Made of stainless steel AISI 316L (1.4404) and PTFE

All-layer-scratcher			
Dia. mm	Length mm	Chamber volume ml	Item no.
25	1000	180	5351-1000 N2
Accessories			
Description	Item no.		
Cleaning brushes 25 mm dia., length 100 cm	5304-0100 N4		

Scratcher | for non-pourable substances



The scratcher has particularly been designed for sampling cohesive, caked and not free-flowing substances.

- ▶ Stainless steel AISI 316L (1.4404)
- ▶ Total length 1000 mm
- ▶ Ø 25 mm

Use

1. Insert the closed lance into the sample.
2. Open the inner tube by turning the sample chamber when at the required depth.
3. Turn the scratcher by 360° in the sample, the scraper directs the caked material into the sample chamber.
4. Close the sample chamber.

Scratcher							
Chamber volume ml	Flute length mm	Outer dia. with scraper mm	Item no.				
5	22	32	5347-0005 N2				
10	45	32	5347-0010 N2				
25	110	32	5347-0025 N2				

PowderProof® | mobile powder sampling

Quality assurance starts with the inspection of incoming goods! An all-layer sample of bulk goods is no longer a problem with PowderProof®, the sampler for powders and granules.

PowderProof® is the practically proven professional solution for mobile sampling of powders and granules. Different lances and augers can be attached to the robust drive unit and swapped without any problems. This modular design makes PowderProof® a versatile instrument for sampling powders and granules from drums, barrels, bags or sacks.

Safe and reliable sampling is made even easier with useful accessories such as basket-enclosed bottles, sample bags and close-it control seals. PowderProof® with lance for horizontal use, such as sampling from sacks, with lance for vertical use, for sampling from open containers such as barrels, drums or bags.



PowderProof® | mobile powder sampling



- ▶ Many uses
- ▶ Stainless steel AISI 316L (1.4404)/AISI 301 (1.4310)
- ▶ Incl. motor, two rechargeable batteries, fast charger, lance, spiral screw, bags, clip for holding the bag and cleaning brush
- ▶ Additional spiral screws available as accessory



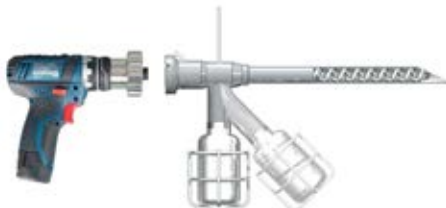
Use

1. The lance is inserted into the sack/container with the spiral screw rotating.
2. The powder or granules are immediately transported through the lance and filled directly into a sample bag or bottle at the lance outlet.

PowderProof®			
Model	Lance	Insertion depth mm	Item no.
for powders up to 2 mm dia.	horizontal	300	5302-0302 N2
for powders up to 2 mm dia.	vertical	600	5302-0602 N2
for powders up to 2 mm dia.	vertical	900	5302-0902 N2
for powders up to 2 mm dia.	vertical	1200	5302-1202 N2
for granules from 2 up to 4 mm dia.	horizontal	300	5302-0301 N2
for granules from 2 up to 4 mm dia.	vertical	600	5302-0601 N2
for granules from 2 up to 4 mm dia.	vertical	900	5302-0901 N2
for granules from 2 up to 4 mm dia.	vertical	1200	5302-1201 N2

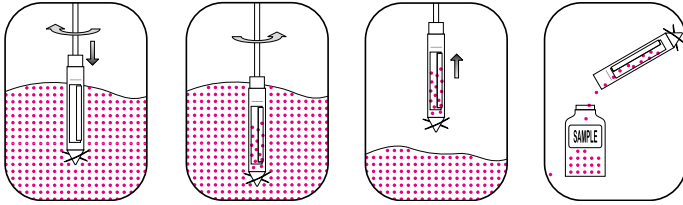
Accessories

Description	Item no.
Spiral screw for PowderProof® for powders up to 2 mm dia., for 300 mm	5302-0316 N2
Spiral screw for PowderProof® for powders up to 2 mm dia., for 600 mm	5302-0616 N2
Spiral screw for PowderProof® for powders up to 2 mm dia., for 900 mm	5302-0916 N2
Spiral screw for PowderProof® for powders up to 2 mm dia., for 1200 mm	5302-1216 N2
Spiral screw for PowderProof® for granules 2 - 4 mm dia., for 300 mm	5302-0317 N2
Spiral screw for PowderProof® for granules 2 - 4 mm dia., for 600 mm	5302-0617 N2
Spiral screw for PowderProof® for granules 2 - 4 mm dia., for 900 mm	5302-0917 N2
Spiral screw for PowderProof® for granules 2 - 4 mm dia., for 1200 mm	5302-1217 N2
Transport case LxWxH 123x25x11 cm	3600-2120 N4
Sampling bottle LDPE 500 ml	0318-0500 N3
Sampling bottle LDPE 1000 ml	0318-1000 N3
Basket for sample bottles 500 ml, Ø 84 mm, incl. holding ring	5302-2055 N2
Basket for sample bottles 1000 ml, Ø 100 mm, incl. holding ring	5302-2105 N2
Clamp for sampling bags, Ø 25	5338-0001 N2
Packaging bags with closure, 220x160 mm, 1000 ml, 100 pieces	2348-0006 N3



PowderProof® for horizontal and vertical use

Samplers for silos



If bulk goods are transported over long distances (in trucks, railway goods wagons), separation may occur.

Taking the sample just from the surface therefore leads to the wrong result. Representative samples from all layers of the silo can be taken with the SiloDrill. The SiloDrill fits through all standard openings with its diameter of 90 mm.

- ▶ Of stainless steel AISI 304 (1.4301) or aluminium
- ▶ Standard length 150 cm, extendable in increments of 100 cm, max. 350 cm
- ▶ Sprung inner tube prevents jamming of coarse grains
- ▶ Scraper edge for cohesive substances
- ▶ Sturdy, removable T-handle
- ▶ Drill tip with drilling blades for easy boring
- ▶ Easy removal of the sample chamber, simple cleaning



SiloDrill

Material	Total length cm	Spiral screw dia. mm	Chamber dia. mm	Volume ml	Item no.
aluminium	150	90	40	400	5301-1000 N4
AISI 304	150	90	40	400	5301-2000 N4

Accessories

Description	Item no.
SiloDrill extension AISI 304, 100 cm	5301-0500 N4
Transport case LxWxH 123x25x11 cm	3600-2120 N4



Silo sampler SiloPicker



The SiloPicker is ideal for taking bulk goods samples from silos. Using the extension rods, samples can be taken from depths down to 350 cm. The insertion depth depends on the density of the bulk goods.

- ▶ Stainless steel AISI 316L (1.4404)

Use

1. Insert SiloPicker into the bulk goods. When this is done, the closure sleeve automatically closes the collection container.
2. When the sampling depth has been reached, the closure sleeve is opened by gently pulling back the SiloPicker, the sampling container is filled.
3. Pull out the SiloPicker and empty it.



Silo sampler SiloPicker					
Chamber volume ml	Length cm	Outer dia. mm	Item no.		
100	130	50	5340-1100 N4		
Accessories					
Description	Item no.				
SiloPicker extension 50 cm	5380-0508 N4				
SiloPicker extension 100 cm	5380-1008 N4				
Transport case LxWxH 123x25x11 cm	3600-2120 N4				

Novartos | pharma zone sampler for sampling according to FDA guidelines for unit-dose sampling

Unit-Dose-Sampling

During powder separation checks and purity validations of powders, liquids and semi-solid substances, special procedures (unit-dose-sampling) must be employed to achieve the desired results.

Special sampling methods, which are required especially in the pharmaceutical industry in conformance with FDA and GMP specifications, require samplers with special features.

- ▶ High degree of preciseness
- ▶ Groove-free surfaces, electropolished if possible
- ▶ AISI 316 stainless steel or PTFE materials
- ▶ Sterilisable
- ▶ Easy and perfect cleaning

Many Bürkle Samplers fulfill these demands, have been tested in actual practice, and are distinguished by especially sturdy and precise machining.

Novartos is a pharma zone sampler for unit-dose sampling:

- ▶ For various sampling depths with simultaneous double sample or triple sample (Duo-Sampler or Triple-Sampler).
- ▶ Precise volume calibration with 40 exchangeable sample inserts with volumes from 0.1 ml to 4.0 ml, in increments of 0.1 ml.



Novartos is the pharmaceutical zone sampler for sampling in accordance with the FDA guidelines for unit dose sampling. With the Novartos pharmaceutical samplers, multiple individual dose samples (unit dose samples) can be taken from one or more sampling points in a single sampling.

Thanks to the intelligent design of these pharmaceutical samplers, the lance does not have to be inserted into the sampling material several times. This largely prevents mixing. This is an important criterion, especially when sampling very small quantities in the pharmaceutical industry. Novartos samplers can be used to take a large number of samples quickly and easily, including from the same point, thus allowing for representative reserve samples.

Novartos offers a wide range of sample volumes for selection. Many different inserts with sample volumes from 0 to 2.0 ml (Novartos Multi) or 4.0 ml (Novartos Uno) can be selected and combined. Withdrawal of a sample can be prevented at certain points with dummy inserts (0.0 ml). The immersion depths of the sample lance can easily be read on a laser-engraved depth scale.

- ▶ Several single-dose samples from one or more sampling points all in one sampling
- ▶ Precision-fit, easily interchangeable sample inserts
- ▶ Stainless steel V4A (1.4404 / 1.4571)
- ▶ 25 mm Ø



Double sampling



Triple sampling



Novartos | pharma zone sampler for sampling according to FDA guidelines for unit-dose sampling

Novartos Multi double sampling

With Novartos Multi double sampling, a double multi-point sample can be taken from multiple predefined sample zones. Depending on the length, four, seven or nine sample chambers are each fitted with two sample inserts for the double sampling.



Novartos Multi triple sampling

With Novartos Multi triple sampling, a triple multi-point sample can be taken from multiple predefined sample zones. Depending on the length, four, seven or nine sample chambers are each fitted with three sample inserts for the triple sampling.



Novartos Uno double sampling

With Novartos Uno double sampling, a double target-point sample can be taken from a predefined sample zone. A sample chamber is fitted with two sample inserts for the double sampling.



Novartos Uno triple sampling

With Novartos Uno triple sampling, a triple target-point sample can be taken from a predefined sample zone. A sample chamber is fitted with three sample inserts for the triple sampling.



i Novartos was developed in cooperation with a multinational operating Pharmaceutical/chemical group in Basel/Switzerland.

! Please order inserts separately! (Alternative sample volumes on request.)

Novartos Multi double sampling

Model	Length mm	Collection chambers	Number of inserts	Item no.
without inserts	600	4	8	5358-0602 N4
without inserts	1000	7	14	5358-1000 N4
without inserts	1400	9	18	5358-1402 N4

Novartos Multi triple sampling

Model	Length mm	Collection chambers	Number of inserts	Item no.
without inserts	600	4	12	5358-0603 N4
without inserts	1000	7	21	5358-1003 N4
without inserts	1400	9	27	5358-1403 N4

Accessories

Description	Item no.
Inserts for Novartos Multi capacity 0 ml	5358-0000 N4
Inserts for Novartos Multi, capacity 0.5 ml	5358-0005 N4
Inserts for Novartos Multi, capacity 1 ml	5358-0010 N4
Inserts for Novartos Multi capacity 1.5 ml	5358-0015 N4
Inserts for Novartos Multi, capacity 2 ml	5358-0020 N4

Novartos Uno double sampling

Model	Length mm	Collection chambers	Number of inserts	Item no.
without inserts	600	1	2	5358-0600 N4
without inserts	1000	1	2	5358-1001 N4
without inserts	1400	1	2	5358-1400 N4

Novartos Uno triple sampling

Model	Length mm	Collection chambers	Number of inserts	Item no.
without inserts	600	1	3	5358-0630 N4
without inserts	1000	1	3	5358-1030 N4
without inserts	1400	1	3	5358-1430 N4

Accessories

Description	Item no.
Inserts for Novartos Uno, capacity 0 ml	5358-0100 N4
Inserts for Novartos Uno, capacity 0.5 ml	5358-0105 N4
Inserts for Novartos Uno, capacity 1 ml	5358-0110 N4
Inserts for Novartos Uno, capacity 2 ml	5358-0120 N4
Inserts for Novartos Uno, capacity 3 ml	5358-0130 N4
Inserts for Novartos Uno, capacity 4 ml	5358-0140 N4

Accessories

Description	Item no.
Transport case LxWxH 123x25x11 cm	3600-2120 N4
Novartos head (not rounded)	5358-1011 N4

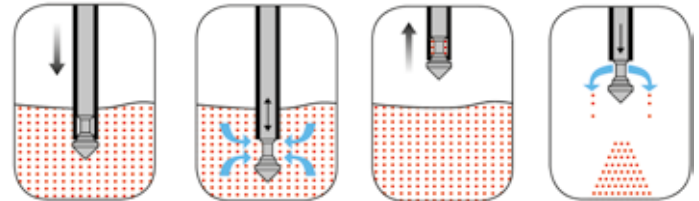
MicroSampler | useful for taking small samples, sterilisable



The MicroSampler has especially been designed for the sampling of small quantities of powder. Volumes of 0.2 ml, 0.5 ml, 1.0 ml, 2.0 ml, 5.0 ml and 10 ml can be sampled easily, quickly and cleanly from different sampling depths from sacks or containers. The tips of the MicroSampler are interchangeable. This means that tips with different volumes can be used.

- ▶ Point sampling
- ▶ Various lengths and volumes are available
- ▶ Tip can be removed, easy cleaning
- ▶ Stainless steel AISI 316L (1.4404)
- ▶ Sterilisable
- ▶ Additional tips are available in different sizes

Please order head separately!



Use

1. Insert MicroSampler into powder.
2. At the predetermined point, open the volume tip by pressing the button, the sample flows in.
3. Close the volume tip, the sample is collected.
4. Pull back the lance, open the volume tip again, empty the sample.



MicroSampler

Tube Ø mm	Length cm	Model	Item no.
12	55	without head	5307-1055 N4
12	85	without head	5307-1085 N4
12	120	without head	5307-1120 N4
25	55	without head	5307-2055 N4
25	85	without head	5307-2085 N4
25	120	without head	5307-2120 N4

Accessories

Description	Item no.
MicroSampler heads fits tube with 12 mm dia., capacity 0.2 ml	5307-0102 N4
MicroSampler heads fits tube with 12 mm dia., capacity 0.5 ml	5307-0105 N4
MicroSampler heads fits tube with 12 mm dia., capacity 1 ml	5307-0110 N4
MicroSampler heads fits tube with 25 mm dia., capacity 2 ml	5307-0202 N4
MicroSampler heads fits tube with 25 mm dia., capacity 5 ml	5307-0205 N4
MicroSampler heads fits tube with 25 mm dia., capacity 10 ml	5307-0210 N4

PharmaPicker | for sampling very small quantities



For sampling very small quantities of highly potent, expensive or active powders for analysis. The smallest sample quantities from 0.1 ml to 2.5 ml can be collected with the PharmaPicker. By simply exchanging the volume tip in the collection cylinder for 0.1–1.2 ml or 1.25–2.5 ml, the sampling volume is modified.

The PharmaPicker has a length of 60 cm and can be extended repeatedly by 50 cm or 100 cm, maximum length 3.50 m. The PharmaPicker is available separately or as PharmaPicker Case in a handy transport box.

PharmaPicker Case consisting of: Collection cylinders in both sizes, extension rod 50 cm and 100 cm, handle, volume tips 0.4 ml, 0.6 ml, 0.8 ml, 1.0 ml, 1.2 ml, 1.4 ml, 1.8 ml, 2.0 ml, 2.3 ml and 2.5 ml (alternative sample volumes on request), transport box.

Use

1. Insert the required volume tip into the collection cylinder.
2. Insert the PharmaPicker, the disc sleeve closes the collection cylinder automatically.
3. The disc sleeve opens the collection cylinder at the required point, and the desired sample is collected.
4. Withdraw the PharmaPicker completely.
5. Empty the sample directly from the collection cylinder into the analysis container.

- ▶ Stainless steel AISI 316L (1.4404)
- ▶ Electro-polished

Please order head separately!

PharmaPicker						
Model		Item no.				
with collection cylinder for 0.10–1.20 ml, without head		5346-1000 N2				
with collection cylinder for 1.25–2.50 ml, without head		5346-2000 N2				
Case, completely		5346-0010 N2				
Accessories						
Description		Item no.				
Volume heads for PharmaPicker, capacity 0.10 ml		5346-1010 N2				
Volume heads for PharmaPicker, capacity 0.20 ml		5346-1020 N2				
Volume heads for PharmaPicker, capacity 0.60 ml		5346-1060 N2				
Volume heads for PharmaPicker, capacity 1.00 ml		5346-1100 N2				
Volume heads for PharmaPicker, capacity 2.00 ml		5346-2200 N2				
Volume heads for PharmaPicker, capacity 2.50 ml		5346-2250 N2				
Accessories						
Description		Item no.				
Extension rod PharmaPicker 500 mm		5380-0506 N4				
Extension rod PharmaPicker 1000 mm		5380-1006 N4				
Collection cylinder for 0.10–1.20 ml, without volume head		5346-1001 N2				
Collection cylinder for 1.25–2.50 ml, without volume head		5346-2001 N2				
Handle PharmaPicker		0006-8113 N3				

Powder sampler Mini



The Powder Sampler Mini is a stainless steel sampler for small quantities.

When the button is pressed, a sampling rod enters the sample material and retracts when released. In this way, a fixed amount of sample material is enclosed in the sample notch of the rod and removed.

The sampler precisely collects 0.01 ml, 0.05 ml and 0.1 ml sample volumes, depending on the version.

With an insertion depth of up to 300 mm, multiple target point samples can be collected at different depths.

The small-volume powder sampler is made of high-quality stainless steel 1.4404/1.4571 (316L/316Ti).

- ▶ Sampling of small quantities (0.01 - 0.1 ml)
- ▶ Simple and fast application with the push of a button

Powder sampler Mini					
Chamber volume ml	Length mm	Dia. mm	Item no.		
0,01	300	6	5346-3010	N4	
0,05	300	6	5346-3050	N4	
0,1	300	6	5346-3100	N4	

PharmaSpoon | for ultrapure sampling



PharmaSpoon for taking samples of powdery substances, intermediate products and material in the pharmaceutical industry. Special materials with excellent surface qualities must be used for this to prevent cross-contamination. Our PharmaSpoon fulfils these requirements. Made of stainless steel AISI 316L (1.4404), surface highly polished by hand (not electro-polished!). The excellent surface properties of the PharmaSpoon provide significant advantages.

- ▶ Possible residues are even visible in the trace sector (μg sector)
- ▶ The surface is easy to clean
- ▶ The PharmaSpoon is also suitable for sterile sampling

The PharmaSpoon was developed by an internationally known pharmaceutical company in Basel, Switzerland, and its usefulness has been confirmed in actual practice.

PharmaSpoon					
Total length mm	Item no.				
650	5324-0001	N2			

Sampling lance Milky | acc. to EN ISO 707



- ▶ Stainless steel AISI 316L (1.4404)
- ▶ Insertion depth 385 mm
- ▶ Total length 480 mm
- ▶ Outer diameter approx. 28 mm

Universal powder and granules sampler made of stainless steel AISI 316L (1.4404).

Developed initially for milk powder samples, conforms to standards of DIN and IDF (International Dairy Federation).

The collector is inserted into bags or casks and the sample is removed using a semi-circular profile lance.



close-it seals and close-it food lock seals ensure non-leak closure of the insertion point in bags and BigBags. See p. 78.

Sampling lance Milky

Volume ml
150



Item no.
5321-0300 N4

StickProof



Sampler for powder in the pharma area, made of stainless steel AISI 316L, material 1.4404. The especially slender tip can be inserted easily and deeply in order to take the sample. The conical inlet of the tip allows the collection of either very small or larger quantities. StickProof is constructed in one piece without edges, grooves or crevices for perfect and easy cleaning. The sample can be filled directly into the sampling bag from the outlet end. Fasten the bag with a sturdy clamp.

- ▶ Surface electro-polished
- ▶ Various sample quantities up to approx. 50 ml
- ▶ Incl. clamp and 100 PE sampling bags 120x170 mm

Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, vetches).

StickProof

Length mm	Dia. mm	Item no.
410	25	5338-0410 N4
1100	25	5338-1100 N4

Accessories

Description	Item no.
Clamp for sampling bags, Ø 25	5338-0001 N2
Packaging bags with closure, 170x120 mm, 400 ml, 100 pieces	2348-0005 N3
Control seal close-it page 78	

Sampler Tubus



Sampler for pourable bulk goods up to approx. 1 cm in diameter. This makes it possible, for example, to remove hazel nuts, blends of tea, grain or similar items from large sacks.

- ▶ Also for coarse-grained bulk goods
- ▶ Made of stainless steel AISI 316L (1.4404)
- ▶ Special geometry of the tip

Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, vetches).

Use

1. Insert Tubus into a sack to the desired sampling depth, while keeping the collection tube closed using your hand.
2. When you remove your hand, the sample flows directly through the open tube into the container or sampling bag beneath it.

Sampler Tubus						
Length cm	Dia. mm	Item no.				
40	40	5382-0040 N4				
80	40	5382-0080 N4				
Accessories						
Description		Item no.				
Control seal close-it page 78						

QuickPicker



The core sampler QuickPicker is particularly suitable in the event that bulk goods are taken directly from sacks or bags and have to be filled into the original sampling bottle directly.

QuickPicker is uncomplicated in its use and cleaning. No undercuts or edges mean no sample residues which could falsify subsequent samples. It is therefore ideal for quality control.

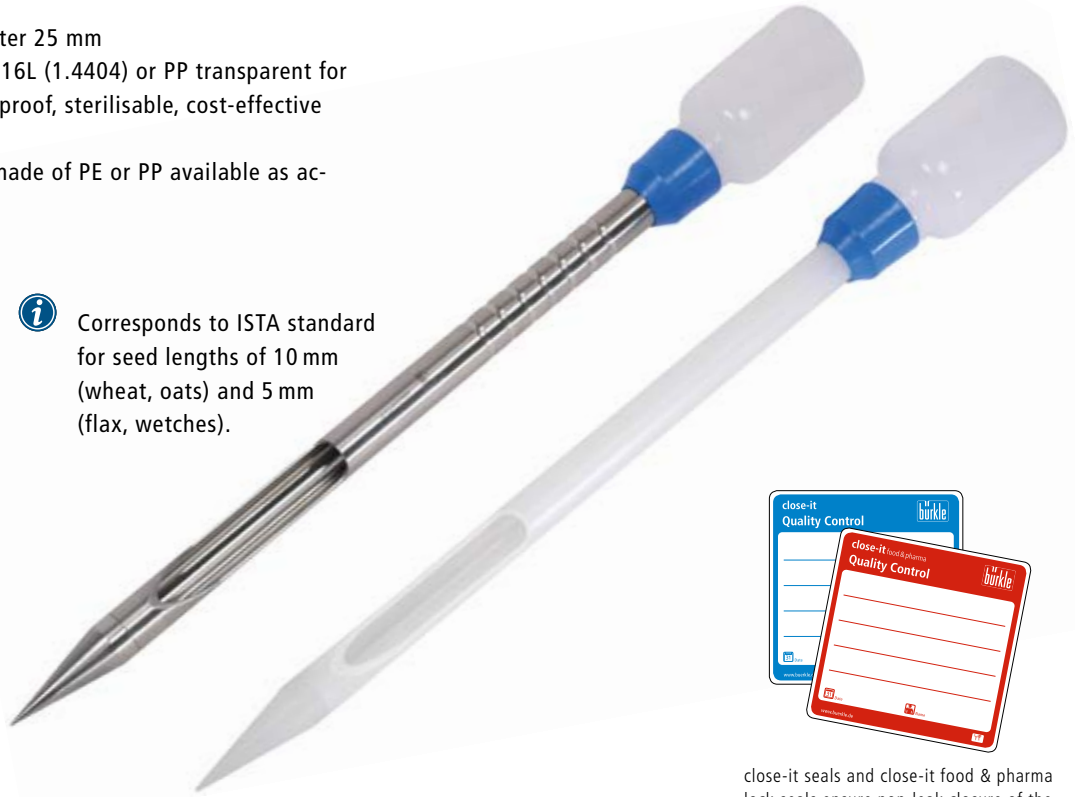
The sampler QuickPicker is delivered complete with two 250 ml PE sample bottles and with a cleaning brush.

QuickPicker | collects samples quickly and channels them directly into the sampling bottle

- ▶ Insertion depth 30 cm, diameter 25 mm
- ▶ Made of stainless steel AISI 316L (1.4404) or PP transparent for aggressive chemicals, scratchproof, sterilisable, cost-effective
- ▶ Removable tip, easy cleaning
- ▶ Additional sampling bottles made of PE or PP available as accessories



i Corresponds to ISTA standard for seed lengths of 10 mm (wheat, oats) and 5 mm (flax, wetches).



close-it seals and close-it food & pharma lock seals ensure non-leak closure of the insertion point in bags and BigBags. See page 78.

QuickPicker AISI 316L in use

QuickPicker								
Material	Insertion depth mm	Total length cm	Volume ml	Item no.				
AISI 316L	300	50	75	5322-1300 N4				
PP, transparent	300	50	75	5322-0300 N4				
Accessories								
Description								Item no.
Sampling bottle LDPE, 250 ml								0318-0250 N3
Sampling bottle PP, 250 ml								0319-0250 N3
Transport case for QuickPicker								3600-3000 N3
close-it seals page 78								

close-it control seal | essential for sampling bulk goods

- ▶ The labels are supplied in handy rolls
- ▶ The cross perforations allow each label to be separated from the roll individually
- ▶ close-it – standard size 95 x 95 mm
- ▶ close-it Maxi – 150 x 150 mm, for larger holes or longer tears in containers



close-it control seal | essential for sampling bulk goods

Taking samples from sacks, boxes, bags, etc. with sampling lances is a common and time-proven practice. This produces holes through which easily flowing bulk goods could escape from the container. With the close-it seal, this can be prevented in an uncomplicated manner.

close-it has been especially developed for this purpose. The label has a sandwich-type structure (aluminium/paper) and seals the container hermetically (vapour barrier). This virtually prevents hygroscopic powders from clumping together. The label is not just used to provide a hermetic seal. It is also used for providing quality control information (sampling date, release yes/no, name of tester, etc.). The labels are available in different colours. With printing in red, blue, green, yellow, black, neutral, without printing in white.

close-it can be written on with ball-point pen, pencil or felt-tip marker.

The rear of the label is coated with a powerful adhesive. This

means that close-it sticks firmly to most commercial containers, even to surfaces coated with fine powder, slightly moist or even frozen surfaces where conventional labels or adhesive tape will not stick.



Control seal close-it 95x95

Colour	Model	W x H mm	Pieces per roll	Item no.
red	printed	95 x 95	500	5303-0012 N4
yellow	printed	95 x 95	500	5303-0014 N4
blue	printed	95 x 95	500	5303-0015 N4
green	printed	95 x 95	500	5303-0016 N4
black	printed	95 x 95	500	5303-0011 N4
white	unprinted	95 x 95	500	5303-0002 N4

Accessories

Description	Item no.
close-it dispenser for labels with 95 x 95 mm	5303-9000 N4

Control seal close-it maxi 150x150

Colour	Model	W x H mm	Pieces per roll	Item no.
red	printed	150 x 150	250	5303-1012 N4
yellow	printed	150 x 150	250	5303-1014 N4
blue	printed	150 x 150	250	5303-1015 N4
green	printed	150 x 150	250	5303-1016 N4
black	printed	150 x 150	250	5303-1011 N4
white	unprinted	150 x 150	250	5303-1002 N4

Accessories

Description	Item no.
close-it dispenser for labels with 150 x 150 mm	5303-9100 N4

Control seal close-it food & pharma

In response to numerous requests from our customers, we have developed close-it food & pharma, a control seal with an adhesive approved for use with foodstuffs. The strength of the adhesive is almost as powerful as that of the original, the close-it from Bürkle, proven millions of times. close-it food & pharma also reliably prevents products from leaking out after sampling.

The adhesive complies with the European guidelines for foodstuffs. Just like the original, close-it food & pharma has a barrier layer of aluminium foil. This means that close-it food & pharma is suitable for sampling foodstuffs, pharmaceuticals, cosmetics, food additives, even frozen goods – in short, for all applications in which cleanliness is particularly important.

- ▶ According to FDA Guidelines
- ▶ Particularly suited for the food and pharma industry



Control seal close-it food & pharma 95x95

Colour	Model	W x H mm	Pieces per roll	Item no.
red	printed	95 x 95	500	5303-2017 N4
yellow	printed	95 x 95	500	5303-2020 N4
blue	printed	95 x 95	500	5303-2021 N4
green	printed	95 x 95	500	5303-2022 N4
black	printed	95 x 95	500	5303-2023 N4
white	unprinted	95 x 95	500	5303-2018 N4

Accessories

Description	Item no.
close-it dispenser for labels with 95 x 95 mm	5303-9000 N4

Control seal close-it food & pharma Maxi 150x150

Colour	Model	W x H mm	Pieces per roll	Item no.
red	printed	150 x 150	250	5303-3017 N4
yellow	printed	150 x 150	250	5303-3020 N4
blue	printed	150 x 150	250	5303-3021 N4
green	printed	150 x 150	250	5303-3022 N4
black	printed	150 x 150	250	5303-3023 N4
white	unprinted	150 x 150	250	5303-3018 N4

Accessories

Description	Item no.
close-it dispenser for labels with 150 x 150 mm	5303-9100 N4





Besides the individually detachable close-it and close-it food & pharma closure labels, our repeatedly tested and proven control seal is now also available on a continuous roller. This helps you discover whether you require only a small piece, for example for closing a small hole, or for marking a specific point. Or whether you want to repair a long crack or a large hole quickly, reliably and easily. With its extremely strong adhesive strength, close-it^{tape} holds on the most diverse bases, where the glue effect of normal adhesive tape quickly reaches its maximum capacity.

For universal use, we have kept the adhesive tape close-it^{tape} in white with tear-off lines. It can be labelled with permanent ink and locks gas-proof. Available in the classic close-it design, as well as close-it^{tape} food & pharma, with a food-compatible adhesive.

- ▶ Customizable
- ▶ Different designs
- ▶ For larger holes or longer tears in containers

close-it tape

Width mm	Model	Length m	Item no.
95	standard	50	5303-0017 N4
150	standard	50	5303-1017 N4
95	food & pharma	50	5303-2019 N4
150	food & pharma	50	5303-3019 N4

Accessories

Description	Item no.
close-it dispenser for labels with 95 x 95 mm	5303-9000 N4
close-it dispenser for labels with 150 x 150 mm	5303-9100 N4

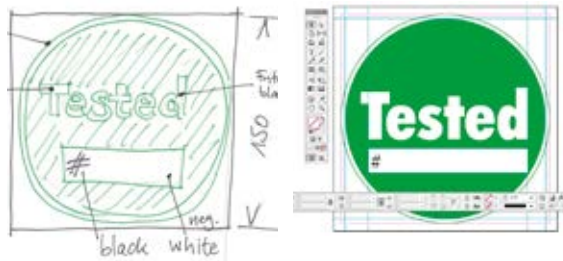
close-it | with individual customer-specific special printing

Custom-made according to the customer's specifications

The close-it control seal has many satisfied users who use close-it as a control seal, for documentation or as an informative label.

Your individual close-it

We would be happy to help you design your own close-it. Do you need final artwork for your draft? Or would you like to use our complete graphics service from draft stage through the print process? Our advertising department would be happy to consider any challenge!



Your idea



Our draft



Finishing and print



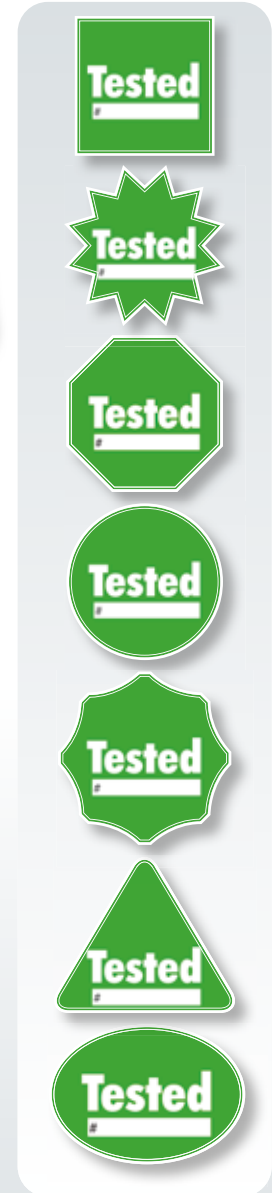
Your close-it label

Shape and colour

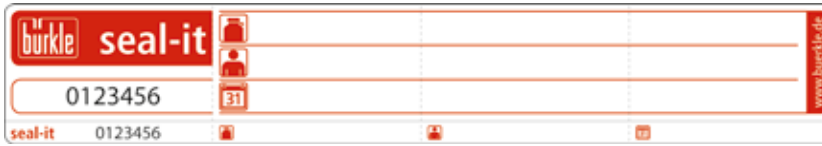
Round, square, rectangular or other shape? Unusual contours can also be implemented! We would be pleased to provide you with a quote. Of course print is available in all colours, with either single or multiple colours.

Finishing

close-it can be manufactured with or without carrier paper perforations. Different numbers of close-it labels can be supplied in a single roll.



seal-it security seal | for retention samples



Retention samples are kept to provide a sample for comparison at a later date. The unambiguous proof that the retention sample is identical to the original sample is only possible with clearly marked and sealed containers. However, sealing is frequently not possible unless eyelets are present.

seal-it provides the solution! The seal-it self-adhesive label sticks to all conventional containers. Thanks to its unbelievable adhesive power it cannot be removed.

If a container opening is closed with seal-it, then the container cannot be opened without destroying the seal-it label. seal-it is additionally provided with several cross-perforations which immediately tear when manipulated like a motorcar tax disc.

seal-it can be used to securely seal bottles, sample bags, sacks, specimen bags, envelopes, etc. – in principle any type of container. The aluminium foil adapts seal-it to any container shape. The white labelling field on seal-it can be written on with all conventional writing tools with, for example, contents information, sampling date, name of operator, etc.

- ▶ Clear identification via numbers in sequence
- ▶ Integrated control label with the same number, for accompanying documents
- ▶ Format 178 mm long, 30 mm wide
- ▶ Tear-off perforation for each label

seal-it security seal

Length mm	Width mm	Colour	Pieces per roll	Item no.
178	30	red	500	5399-0003 N4

close-it dispenser



The close-it dispenser ensures safe storage and simple removal of the labels. The labels can be conveniently written on due to the marking plate.

- ▶ For close-it standard size 95 x 95 mm or close-it Maxi 150 x 150 mm

close-it dispenser

Model	Item no.
for labels with 95 x 95 mm	5303-9000 N4
for labels with 150 x 150 mm	5303-9100 N4



Tamper proof labels safe-it

The safety label safe-it is used as originality seal and as protection from manipulations of e.g. samples, retention samples, for transporting samples, sealing containers with important or dangerous chemicals in the lab as well as sealing letters, shipments and much more.

The initial opening of a package is made obvious and irrevocably visible with the seal guaranteeing originality, unauthorised opening can therefore be proven.

If the safety label is removed, it divides into separate layers. A pattern that was previously hidden appears on the surface and is irreversible. The glue leaves a residue on the surface that cannot be removed (a so-called void label). Once the label has been removed, it cannot be used again. Changing the label or modifying it afterwards are therefore not possible.

When the safe-it security seal has been broken, a silver checkerboard pattern appears on both the subsurface and surface of the sticker itself.

- ▶ With checkerboard pattern
- ▶ Visible proof of tampering



Tamper proof labels safe-it

W x H mm	Pieces per roll	Item no.
95 x 20	500	5303-5000 N4

Accessories

Description	Item no.
close-it dispenser for labels with 95 x 95 mm	5303-9000 N4

SampleSafe seal | secure your samples



Retained samples must be always secured against falsification and ambiguity in identification. Bottles with sealing eyelets should therefore be secured with SampleSafe seals.

The seals are made of stable polypropylene. The seals are to be uniquely identified with the serial 9-digit number.

The seal ring has a diameter of 2 mm, therefore SampleSafe seals also fit through small eyelets and slits. The seal tape is secured in the closure chamber by a metal insert made of stainless spring steel. The one-way tightening mechanism offers additional security against manipulation. It is not possible to forcibly open or manipulate the closure of the seal without leaving behind clear traces.

- ▶ Clear identification via numbers in sequence
- ▶ 100 seals (10 strips) per pack
- ▶ Protection against manipulation by stainless steel safety spring

SampleSafe seal

Length mm	Dia. mm	Colour	Pieces per pack	Item no.
260	2	red	100	5399-2902 N4



Sealable wide-necked bottles



Sturdy bottle with sealing eyelets on the screw cap and the bottle. Particularly suited for sending samples. Seals provide increased sample authenticity. Easy to fill due to wide opening. Particularly suitable for viscous media, powder, granules and pastes.

- ▶ HDPE
- ▶ Leakproof
- ▶ Easy to fill due to wide-necked opening

Sealable wide-necked bottles

Capacity ml	Container dia. mm	Neck dia. inside mm	Height with cap mm	Item no.
250	64	26.5	118	0322-0250 N3
500	78	40	147	0322-0500 N3
1000	100	50	186	0322-1000 N3
2000	120	50	230	0322-2000 N3



Accessories

Description	Item no.
SampleSafe seal, red, 100 pieces	5399-2902 N4

Pigment lance

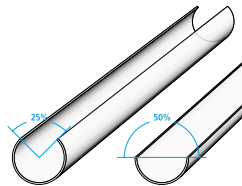


Pigment lance to sample pigments, pastes and agglomerating bulk goods.

- ▶ With half-open flute 50 %, for heavily sticking products
- ▶ With quarter-open flute 25 %, for lightly sticking products
- ▶ Stainless steel AISI 316L (1.4404)
- ▶ 30 mm Ø

Use

1. Insert the lance to the required depth.
2. Turn the handle, the sample is collected into the open flute.
3. Pull back the lance.
4. Take out the sample.



Pigment lance

Flute length mm	Flute openings %	Volume ml	Total length mm	Item no.	
300	25	145	432	5369-0300	N4
300	50	85	432	5369-0310	N4
600	25	312	732	5369-0600	N4
600	50	179	732	5369-0610	N4
900	25	480	1032	5369-0900	N4
900	50	273	1032	5369-0910	N4

Valve lance



Sampler for all-layer samples of viscous, paste-like, semi-liquid substances, according to DIN 51750 pt. 3 and DIN EN ISO 15528. Different layers remain intact particularly with paste-like substances.

- ▶ Stainless steel AISI 316L (1.4404)
- ▶ 32 mm Ø
- ▶ Optimised opening mechanism (can be completely disassembled) for easy cleaning

Use

For viscous substances:

1. The valve lance is inserted all the way to the bottom, whilst being closed.
2. It is opened, closed and pulled out again.

For paste-like substances:

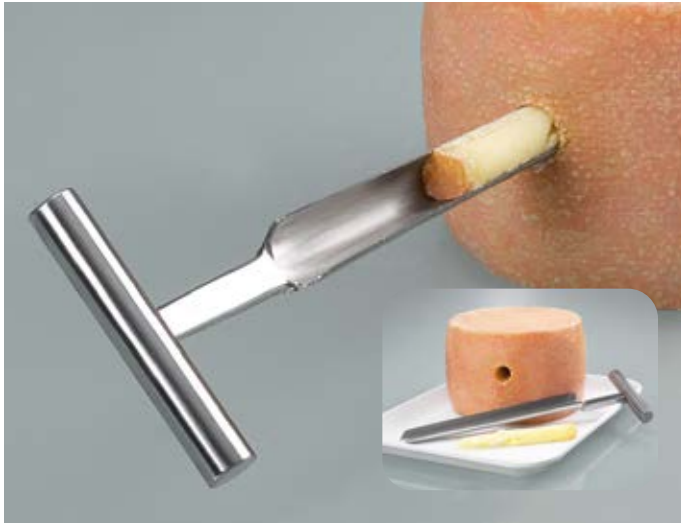
1. The valve lance is inserted all the way to the bottom, whilst being open.
2. It is closed and pulled out again.

Valve lance

Length mm	Item no.
550	5359-1600 N4
800	5359-1800 N4

Accessories	
Description	Item no.
Transport case LxWxH 123x25x11 cm	3600-2120 N4

QualiRod conical



Conical hand-drill, conically shaped, with sharp cutting edges and a solid handle. Ideal for cutting out samples for quality control from soft, paste-like substances (cheese, butter, clay, soap, wax, etc.).

- ▶ Stainless steel AISI420B (1.4028)
- ▶ Sterilisable
- ▶ According to EN/ISO 707

QualiRod conical

Drilling depth mm	Item no.
110	5311-0001 N4
150	5311-0002 N4

Accessories

Description	Item no.
Transport case, inner dimensions 258x178x45 mm close-it food&pharma page 80	3600-0021 N3

QualiRod cylindrical



Cylindrical hollow drill with a sharp cutting edge, can easily be driven into paste-like and semi-solid substances. The samples cut out are subsequently removed with the appropriate push-rod ejector. Total length 260 mm. Inner Ø 8 mm, outer Ø 10 mm.

- ▶ Stainless steel AISI 304 (1.4301)
- ▶ Sterilisable
- ▶ Inner Ø 8 mm, outer Ø 10 mm

QualiRod cylindrical

Drilling depth mm	Item no.
200	5311-0101 N4

Accessories

Description	Item no.
Transport case, inner dimensions 258x178x45 mm	3600-0021 N3

Stainless steel spatula



Sample spatula made of stainless steel AISI 316L (1.4404). The highly stable and solid design of the spatula allows it to pierce solid substances or sacks and Big-Bags. The spatula is made of premium stainless steel, high-gloss polished and completely welded, thus completely free of undercuts. It is therefore ideally suited for taking samples of powders, granulates and pasty media, especially in food and pharmaceutical applications.

- ▶ Made completely of stainless steel AISI 316L (1.4404)
- ▶ Very sturdy
- ▶ Easy to clean
- ▶ Autoclavable
- ▶ Can be flame-sterilized
- ▶ High-gloss polished

Stainless steel spatula

Insertion depth mm	Volume ml	Total length mm	Item no.
188	50	300	5383-1000 N4



Palette knife spatula



Similar to a pallet or dispensing chemist's spatula, this palette knife spatula is suitable for applying or distributing viscous media such as pastes and creams, or for spreading them smoothly. The high-quality stainless steel spatula is manufactured with no edges or crevices. That makes cleaning easier and prevents product residue and cleaning agents from accumulating. The spatula has a long, narrow, high-gloss polished blade that facilitates precise work. The sturdy handle fits comfortably in the hand. The laboratory spatula is suitable for use in chemical and pharmaceutical applications.

- ▶ Stainless steel AISI 304 (1.4301)
- ▶ Very sturdy



Palette knife spatula stainless steel

L x W mm	Item no.
200 x 21	5386-0010 N4
250 x 25	5386-0012 N4



Spatula



Universal instrument for collecting, dividing and mixing pastes, creams etc.

- ▶ Blade made of stainless steel AISI 304 (1.4301)
- ▶ Wooden handle

Spatula

Length mm	Item no.
180	5313-0180 N4
300	5313-0300 N4

Mini ViscoSampler | for small quantities



Sampler for viscous substances such as pastes, mud, creams, oils. The sample is drawn in using the pump rod and directly conveyed to a sampling container. Easy cleaning for flawless sampling. Depending on the viscosity, the removable suction tip can be fitted with suction drills of 2 mm to 6 mm.

- ▶ Stainless steel AISI 316L (1.4404), piston PTFE
- ▶ Sterilisable
- ▶ Ideal for the pharmaceutical and cosmetics industry
- ▶ Incl. suction tip 2 mm
- ▶ 15 mm Ø

Mini ViscoSampler

Length cm	Chamber volume ml	Item no.
60	30	5341-1060 N4
100	50	5341-1100 N4
150	75	5341-1150 N4

Accessories

Description	Item no.
Suction heads for Mini ViscoSampler, suction drill 2 mm	5341-1002 N4
Suction heads for Mini ViscoSampler, suction drill 4 mm	5341-1004 N4
Suction heads for Mini ViscoSampler, suction drill 6 mm	5341-1006 N4
Drain safety stand (see page 50)	5618-1000 N4



ViscoSampler | sample collector for medium viscosity substances



ViscoSampler with powerful suction for viscous media. The media is drawn up and discharged using the suction flask. Made of ultra-pure, chemically inert PTFE/FEP for contamination-free sampling. Specially developed for viscous substances such as slurries, silt, wet clay and soil samples, soil sediments, oils, emulsions, creams etc.

Easy cleaning - all surfaces are poreless and without crevices. Dirt accumulation is prevented. Only round screw threads tried and tested in the field of food hygiene are used. Disassembly and cleaning are extremely simple.



QualiSampler set

The handy set, which comes complete with carrying case, combines the LiquiSampler and the ViscoSampler with practical accessories.

Models in PP or PTFE/FEP.

- ▶ QualiSampler set consisting of:
- ▶ LiquiSampler, 100 cm
- ▶ ViscoSampler, 100 cm
- ▶ Case, five bottles, cleaning brush

QualiSampler set

Material	Item no.
PP	5330-1000 N4
PTFE / FEP	5330-1001 N4

ViscoSampler

Material	Volume ml	Immersion depth cm	Dia. mm	Item no.
PP, transparent	160	60	32	5331-1060 N4
PP, transparent	300	100	32	5331-1100 N4
PP, transparent	650	200	32	5331-1200 N4
PTFE/FEP, transparent	160	60	32	5331-2060 N4
PTFE/FEP, transparent	300	100	32	5331-2100 N4
PTFE/FEP, transparent	650	200	32	5331-2200 N4

Accessories

Description	Item no.
Cleaning brushes 25 mm dia., length 100 cm	5304-0100 N4
Drain safety stand (see page 50)	5618-1000 N4

LiquiSampler | sample collector for liquids



LiquiSampler for liquids, according to DIN EN ISO 15528. Made of ultra pure and chemically inert PTFE/FEP or PP for contamination-free sampling.

Sampling from open and closed containers, barrels, tanks, silos, water courses. Suitable for all commercially available barrels and containers with opening of at least 32 mm in diameter.

Easy cleaning - all surfaces are free of pores and crevices, preventing accumulation of dirt. Only round screw threads proven in foodstuffs hygiene are used. Disassembly and cleaning are extremely simple.

- ▶ Practical one-handed use at the push of a button
- ▶ With scraping ring for marking of depth and cleaning
- ▶ Transparent
- ▶ Available in PTFE/FEP or PP transparent
- ▶ Point sampling, all-layer sampling and bottom sampling possible

Use

All-layer sample

1. Slowly insert the LiquiSampler into the liquid with the button pressed.
2. Release the push-button, the valve closes.
3. Withdraw the lance and take out the sample.

Point sampling/bottom sample

1. Insert the LiquiSampler to the targeted point/to the ground with closed valve.
2. Press the button - the liquid flows in.
3. Release the push-button, the valve closes.
4. Pull out the LiquiSampler, take out the sample.



LiquiSampler				
Material	Volume ml	Immersion depth cm	Dia. mm	Item no.
PP, transparent	150	60	32	5330-1060 N4
PP, transparent	250	100	32	5330-1100 N4
PP, transparent	500	200	32	5330-1200 N4
PTFE/FEP, transparent	150	60	32	5330-2060 N4
PTFE/FEP, transparent	250	100	32	5330-2100 N4
PTFE/FEP, transparent	500	200	32	5330-2200 N4
Accessories				
Description	Item no.			
Cleaning brushes 25 mm dia., length 100 cm	5304-0100 N4			

Dip Sampler, plunging siphon



Dip sampler for simple removal of liquid samples. Good view due to transparent tubes. Upper end with reflux valve, lower end with ball valve.

- ▶ PP, transparent
- ▶ Dip sampler, item no. 5315-0200, steplessly extendable from 100 cm to 200 cm
- ▶ All-layer and point sampling possible



Use

All-layer sample

1. Insert the dip sampler slowly into the liquid with the valve open.
2. Close valve.
3. Pull the dip sampler back and take out the sample.

Point sample/bottom sample

1. Insert the dip sampler to the targeted point/to the ground with closed valve.
2. Open the valve - the liquid flows in.
3. Close the valve.
4. Pull out the dip sampler, take out the sample.



Dip Sampler, plunging siphon

Volume ml	Immersion depth cm	Tube Ø mm	Item no.
140	50	25	5315-0050 N4
280	100	25	5315-0100 N4
500	100 - 200	25	5315-0200 N4



Disposable plunging siphon



If strongly adhesive liquids are sampled, it can be a lot less expensive to dispose of the sampler than to carry out a complicated cleaning process. The disposable dip sampler were developed especially for this purpose. They are made of PE, transparent and the contents are easily visible. PE provides a surface that resists adhesion of the sample material, minimising sample retention on the dip sampler.

Use

1. Insert the dip sampler into the liquid and fill it.
2. Close the thumbhole above the handle using your thumb.
3. Take out the dip sampler and empty the liquid into the sample bottle.

Disposable plunging siphon				
Volume ml	Immersion depth cm	Total length cm	Tube Ø mm	Item no.
112	33	47	28	5387-0050 N4
268	75	89	28	5387-0075 N4
380	96	110	28	5387-0100 N4

PTFE Scoop



All parts coming into contact with the sample medium are made of pure white PTFE. Completely inert against all substances (with the exception of elementary fluoride). The rod is stabilised with a steel core which is completely encapsulated in PTFE. The 60 cm long rod can be extended to 120 cm by adding another component. The scoop PTFE with 10 ml has a strong rod with a length of 155 mm.

PTFE Scoop

Capacity ml	Dia. mm	Height mm	Item no.
10	25	34	5389-0010 N2
100	55	65	5389-0100 N2
250	70	95	5389-0250 N2
500	80	125	5389-0500 N2
1000	105	155	5389-1000 N2

Accessories

Description	Item no.
Extension for PTFE scoop, 60 cm	5389-0001 N2

Chemistry scoop



Scoop for aggressive liquids, complete with strong handle, entirely made of polypropylene.

- ▶ Rod length 100 cm, Ø 20 mm
- ▶ Without metal parts

Chemistry scoop

Capacity ml	Item no.
250	5353-0250 N4
600	5353-0500 N4
1000	5353-1000 N4



Stainless steel scoop



In contrast to conventional scoops, the stainless steel scoop has no openings, undercut or crevices in which residues could collect. Pore-free finishing produced by high-quality laser welding seams. The stainless steel scoop can be flame-sterilised and can therefore be made completely germ-free.



- ▶ Scoop made of stainless steel AISI 304 (1.4301), complete with rod
- ▶ Sterilisable by flame sterilisation or steam sterilisation



Stainless steel scoop

Total length cm	Capacity ml	Item no.
115	1000	5354-1000 N4



TeleScoop | for industry and water treatment



TeleScoop is a versatile sampling system with exchangeable tools for a wide range of applications. The tools (angular beaker, pendulum beaker, bottle holder, stainless steel beaker and dip net) are attached to the telescopic rod by a practical snap-in joint. Ideal for sampling from baths, tanks, shafts, open water courses etc. Sampling depths down to 6 m can be reached with the adjustable telescopic aluminium rod.

- ▶ For industry and water treatment



Different tools can be attached to the telescopic rod (snap-in joint). The individual rods have been provided with an end stop. This means that one rod cannot accidentally slip out of another rod. The telescopic rods cannot be rotated radially, which means even better handling!

Telescopic rod 5355-0280, extremely short model – yet extendable up to 280 cm. Fits into every car boot!

- ▶ Increased telescopic rod rigidity by using cold-rolled profile rod
- ▶ Springs made of stainless steel



Telescopic rod			
Length infinitely variable from	No. of rods	Item no.	
65-120 cm	2	5355-0120	N4
70-180 cm	4	5355-0180	N4
125-250 cm	2	5355-0250	N4
95-280 cm	4	5355-0280	N4
115-300 cm	3	5355-0300	N4
165-450 cm	3	5355-0450	N4
175-600 cm	4	5355-0600	N4
Accessories			
Description			
Sampling tools for telescopic rods page 96/97			



TeleScoop | for industry and water treatment



The beaker is adaptable to different container shapes by adjustable angle setting (up to 90°).

This beaker automatically swings to a horizontal position. Nothing can be spilt. Suitable therefore for deep and narrow shafts (Ø 150 mm).

This beaker automatically swings to a horizontal position. Nothing can be spilt. Suitable therefore for deep and narrow shafts (Ø 130 mm).

Holds all bottles up to 88 mm Ø. Plastic, glass or metal bottles can be securely filled in this way. Angle steplessly adjustable up to 90°.

► Polypropylene

► Polypropylene

► Stainless steel AISI 304 (1.4301)

► With universal quick tightening strap
► Polypropylene/PA



Model	Capacity ml	Item no.
① Scoop angular beaker	600	5354-0050 N4
① Scoop angular beaker	1000	5354-0100 N4
① Scoop angular beaker	2000	5354-0200 N4
② Pendulum beaker PP	600	5354-5050 N4
② Pendulum beaker PP	1000	5354-5100 N4
② Pendulum beaker PP	2000	5354-5200 N4
③ Pendulum beaker AISI 304	1000	5354-3000 N4
④ Bottle holder	750	5354-4100 N4

Accessories

Description

Telescopic rods see page 95

TeleScoop | for industry and water treatment



Beaker with scraper, contents 1000 ml. Ideal for powder, granules, pastes, mud.

Sampling dipper made of stainless steel V2A (1.4301) with extended, completely closed handle.

Catch net for taking solid and organic samples from water courses.

Catch net for taking solid and organic samples from water courses.

- ▶ Sterilisable
- ▶ Stainless steel AISI 304 (1.4301)

- ▶ Closed handle with immersion depth up to approx. 50 cm
- ▶ Beaker capacity 1000 ml

- ▶ PVC/PA blue
- ▶ L 310 x W 280 mm
- ▶ Mesh width 2–5 mm

- ▶ PP/PA blue
- ▶ L 190 x W 430 mm
- ▶ Net depth 250 mm
- ▶ Mesh width 2–5 mm



i Telescopic rods see page 95.

Model	Capacity ml	Item no.
⑤ Stainless steel beaker	1000	5354-2000 N4
⑥ Stainless steel beaker, extended	1000	5354-2010 N4

Model	Item no.
⑦ Surface catch net	5354-5020 N4
⑧ Depth catch net	5354-5010 N4

Liquid-Sampler | single hand operation



Sampler for thin to viscous liquids. Easy use with one-handed operation. With discharge funnel for safe filling of the sample bottles.



► Material AISI 316L (1.4404)



The valve is opened with the thumb to empty the sample.



The valve is opened by attaching the sample container to empty the sample.



Liquid-Sampler, open with thumb

Total length cm	Container dia. mm	Capacity ml	Item no.
46	32	50	5326-0001 N4
54	32	100	5326-0002 N4



Liquid-Sampler, place onto bottle

Container dia. mm	Total length cm	Capacity ml	Item no.
32	45.5	50	5326-0003 N4
32	53.5	100	5326-0004 N4



Sampler Liquid CupSampler



Use

1. Place the collector at the desired depth.
2. Open the lid using the handle. The liquid flows in.
3. Close the filled collector and remove it.
4. Empty the sample into the sample bottle.

It is possible to carry out point sampling of liquids of varying viscosity with the stainless steel AISI 316L (1.4404) Liquid CupSampler. Media-containing particles can also be sampled without difficulty. The sampler can be used in the fields of chemistry, foodstuffs and cosmetics.

The cup can be unscrewed from the stem, allowing easy cleaning.



ChemoSampler | for acids, alkalis, detergents



The ChemoSampler was developed for sampling aggressive liquids, e.g. acids, alkalis, detergents. The samples are drawn directly into the screw-on original sampling bottle. The tamper-proof bottle closure of these bottles with original safety ring ensures unadulterated sample transport. Samples can be taken from depths of as much as 200 cm, e.g. from tanks, silos or tankers, by using the extension rod.

- ▶ PP, grey
- ▶ Resistant to acids and alkalis
- ▶ Incl. sample bottle PE 1000 ml
- ▶ Extension rod 100 cm and two bottle sizes available as accessories.

! Attention! Make sure to pay attention to the "List of Chemical Resistance"!

Sampler Liquid CupSampler

Capacity ml	Container dia. mm	Total length cm	Item no.
100	55	100	5357-0001 N4



ChemoSampler

Item no.	Item no.
5336-1000	N4

Accessories

Description	Item no.
Extension for ChemoSampler 100 cm	5336-0100 N4
Sampling bottle PE, 500 ml	0342-0500 N3
Sampling bottle PE, 1000 ml	0342-1000 N3

Vampire Sampler | for sampling liquids in the field

- ▶ Battery-powered hose pump for sampling liquids from depth
- ▶ Easy cleaning and exchangeable hoses prevent impurities
- ▶ Suction depth up to 5 metres
- ▶ Consisting of a drive unit, pump head, pump hoses (30 cm, Marprene/silicone), suction hose (5 m, PE), hose connector (PP), sample bottle (250 ml, LDPE), bottle basket, two rechargeable batteries and battery charger

Vampire Sampler | for sampling liquids in the field

The Vampire sampler can be used to take samples from liquids easily, even from deeper depths.

The portable sampling pump consists of a mains-independent drive unit, a pump head and a delivery hose.

The medium being sampled is directed via the closed hose system directly into the sample container. The sample only comes in contact with the hoses and the sample bottle. This excludes the risk of impurities and contamination because the hoses are easy to clean and can also be replaced easily if necessary.

The self-priming peristaltic pump is also suitable for substances that are dirty or contain particles with a maximum viscosity of 500 mPas. The gently pumping does not change the sample. Thanks to a suction depth of 5 meters, the battery-powered Vampire sampler easily pumps samples, even from sampling points at lower depths, for example from barrels, tanks, wells, water traps or wastewater and sewage treatment plants.

The portable sampler is easy to handle and carry. The pump attachment is easy to attach to the drive unit and the hoses can be changed quickly. The sample bottle is fastened directly onto the sampling instrument by a bottle basket. The hose pump is perfect for sampling liquid substances in industrial applications such as beverage production or monitoring water quality for environmental protection.



Vampire Sampler



Item no.
5327-1000

N2

Accessories

Description	Item no.
Suction hose Marprene, 1 m	5327-0508 N2
Sampling bottle LDPE 500 ml	0318-0500 N3
Sampling bottle LDPE 1000 ml	0318-1000 N3
Suction hose PE on roll 6 x 8 mm, roll with 10 m	8805-0608 N3
Suction hose PE on roll 6 x 8 mm, roll with 100 m	8878-0608 N3
Basket for sample bottles 500 ml, Ø 84 mm	5302-2051 N2
Basket for sample bottles 1000 ml, Ø 100 mm	5302-2101 N2

MiniSampler | taking samples – comfortable, quick and clean sampling



With the vacuum sampler MiniSampler, the sample liquid only comes into contact with the suction hose and the original sample bottle. The possibility of cross-contamination is greatly reduced. Immediately after taking the sample, the bottles are sealed. The disposable suction hose can quickly be replaced. This guarantees that the samples are never contaminated. If necessary, a new hose can be used for every single sample.

Due to its small diameter (8 mm), the hose can reach narrow, seemingly inaccessible sampling areas.

Two models:

PE MiniSampler for general sampling, max. suction height 5 m*

PTFE MiniSampler for ultra-pure sampling, max. suction height 5 m*

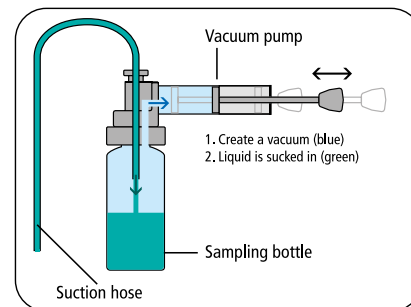
* depending on the medium

- ▶ Also suitable for viscous oils
- ▶ Complete in a handy transport case

Use

1. Insert the hose and the bottle into the pump.
2. Insert hose end to desired sample depth.
3. Move the pump piston back and forth and collect the sample.
The liquid flows directly into the bottle.
4. Take off the filled bottle, close and label it.

Not for aggressive acids. Vapours could destroy pump.



MiniSampler PE | for general sampling



Ideal for general sampling from barrels, canisters, tanks etc.
MiniSampler PE complete with accessories in transport case, contents: Vacuum pump, 10 PE bottles 100 ml, 10 m PE suction hose 6 x 8 mm, 1 hose cutter, 1 stainless steel hose weight made of AISI 304 (1.4301)/brass nickel-plated, 20 seal-it bottle seals.

MiniSampler PE			
Item no.	5305-0100		N4
Accessories			
Description	Item no.		
MiniSampler pump with adapter PP	5305-0010	N4	
MiniSampler standard pump	5305-0011	N4	
PTFE MiniSampler adapter for glass thread GL 45	5305-0209	N4	
MiniSampler adapter PTFE for sample tubes PFA 6205-0180	5305-1020	N2	
Hose cutter	0006-9506	N3	
Sampling bottle HDPE, 100 ml	0340-0100	N3	
Sampling bottle HDPE, 250 ml	0340-0250	N3	
Suction hose PE on roll 6 x 8 mm, roll with 10 m	8805-0608	N3	
Suction hose PE on roll 6 x 8 mm, roll with 100 m	8878-0608	N3	

MiniSampler PTFE | for ultrapure sampling



Ideal when maximum purity is needed.
MiniSampler PTFE complete with accessories in its transport case, contents: Vacuum pump, 1 sample bottle PFA 180 ml, 5 m PTFE suction hose 6 x 8 mm, 1 hose cutter, 1 stainless steel hose weight made of AISI 304 (1.4301)/brass nickel-plated, 20 seal-it bottle seals.

MiniSampler PTFE			
Item no.	5305-0110		N4
Accessories			
Description	Item no.		
MiniSampler pump with adapter PP	5305-0010	N4	
MiniSampler standard pump	5305-0011	N4	
PTFE MiniSampler adapter for glass thread GL 45	5305-0209	N4	
MiniSampler adapter PTFE for sample tubes PFA 6205-0180	5305-1020	N2	
Hose cutter	0006-9506	N3	
Sample boxes PFA, 180 ml	6205-0180	N3	
Suction hose PTFE on roll 6 x 8 mm, roll with 5 m	8804-0608	N3	

ProfiSampler | vacuum-operated sample collector for robust industrial use



While the MiniSampler is designed for laboratory use, the ProfiSampler has been specially developed for rough industrial use.

Applications

Sampling liquids in barrels, tanks, lorries, railway goods wagons, ships, water courses, ground water, etc.

Vacuum samplers have the advantage that the sample liquid only comes into contact with the suction hose and the original sample bottle. The possibility of cross-contamination is greatly reduced. Immediately after taking the sample, the bottles are sealed. The disposable suction hose can quickly be replaced. This guarantees that the samples are always authentic. If necessary, a new hose can be used for every single sample.

Due to its small diameter (8 mm), the hose can reach narrow, seemingly inaccessible sampling areas.

The ProfiSampler can be extended with useful accessories developed in practice.

⚠ Attention! Make sure to pay attention to the "List of Chemical Resistance"!

- ▶ Three feet guarantee that the ProfiSampler stands safely
- ▶ Fill level control, automatic return flow and overflow protection through built-in venting valve
- ▶ Available with suction hose in PE, PA and PTFE wherever the highest degree of purity is required
- ▶ Can be supplied with straight suction tubes for simpler sampling, incl. transport case for tidy transport and disposal of the suction tubes
- ▶ Suction volume 200 ml, suction pressure 0.5 bar
- ▶ Suction height from liquid surface 5 m WS
- ▶ Sample bottles available in different materials and sizes

Profi Sampler aluminium



ProfiSampler | vacuum-operated sample collector for robust industrial use

① ProfiSampler Aluminium

ProfiSampler aluminium for solvents and flammable liquids in Explosion Categories IIA, IIB and IIC. With bottle thread GL 45 (suitable for Schott glass bottles 100 ml to 1000 ml).

When taking samples of flammable liquids, the device must be earthed. For this, earthing cable and, possibly in addition, anti-static set should be used, see accessories.

ProfiSampler aluminium, consisting of: Vacuum pump made of aluminium, with feet, venting valve and bottle thread GL 45 with glass bottle 500 ml, 5 suction tubes PA black (220 cm long, electrically conductive), hose cutter, brass hose weight, 20 seal-it bottle seals, earthing cable.

② Profi Sampler PP

ProfiSampler PP for general samples, for weak acids, alkalis, detergents, chemical baths. Made of solid, chemical resistant Polypopylene.

ProfiSampler PP, consisting of: Vacuum pump, made of solid PP, with feet, venting valve and bottle thread GL 40, 1 PP bottle 250 ml, 10 m PE suction hose (roll), 1 hose cutter, 1 stainless steel hose weight made of AISI 304 (1.4301), 20 seal-it bottle seals.



③ Straight suction tubes for ProfiSampler

have the advantage that they are not slightly bent as is the standard tubing (from the roll) and can therefore be immersed absolutely vertically into the container. The suction tubes are available in transparent PE for general sampling and black PA for flammable liquids in VbF Hazard Category AI (electrically conducting). Diameter 6 x 8 mm. Contamination banned! In practice the low-priced tubes are only used once. They are then disposed of, instead of being subjected to a costly cleaning process. The tubes are not autoclavable.

④ Transport case for straight suction tubes

Suction tube case for the practical transport of new suction tubes and the safe storage of used ones. Suitable for 100 suction tubes, 220 cm long.

① ProfiSampler Aluminium

Item no.	
5305-1100	N4
Accessories	
Description	Item no.
Glass sampling bottle 100 ml, GL 45	5314-0010 N3
Glass sampling bottle 250 ml, GL 45	5314-0025 N3
Glass sampling bottle 500 ml, GL 45	5314-0050 N3
Glass sampling bottle 1000 ml, GL 45	5314-0100 N3
③ Straight suction tube, PE transparent, 200 cm, 10 pieces	5305-1022 N4
③ Straight suction tube, PA black, electrical conductive, 220 cm, 10 pieces	5305-1024 N4
④ Transport case for straight suction tubes	5305-1029 N4
Anti-static set	5602-1000 N4
Suction hose PE on roll 6 x 8 mm, roll with 10 m	8805-0608 N3
Suction hose PE on roll 6 x 8 mm, roll with 100 m	8878-0608 N3
Suction hose PTFE on roll 6 x 8 mm, roll with 5 m	8804-0608 N3

② Profi Sampler PP

Item no.	
5305-1000	N4
Accessories	
Description	Item no.
③ Straight suction tube, PE transparent, 200 cm, 10 pieces	5305-1022 N4
③ Straight suction tube, PA black, electrical conductive, 220 cm, 10 pieces	5305-1024 N4
④ Transport case for straight suction tubes	5305-1029 N4
PP sampling bottle ProfiSampler	0319-0252 N3
Suction hose PE on roll 6 x 8 mm, roll with 10 m	8805-0608 N3
Suction hose PE on roll 6 x 8 mm, roll with 100 m	8878-0608 N3

UniSampler with hose



UniSampler with PVC hose and hose weight made of stainless steel. For deep, hard-to-reach places. The mass of the metal tube drags the hose to any depth.

- ▶ Suction hose PVC, 2.50 m long
- ▶ Complete in a handy transport case incl. sample bottle PP 1000 ml, vacuum pump, universal bottle adapter, hose weight made of AISI 304 (1.4301), 20 seal-it bottle seals
- ▶ Universal bottle adapter made of PVC, for bottle necks Ø 24 mm, 32 mm, 39 mm and 50 mm nominal dimension, for sample bottles 100–1000 ml

Use

1. Lower the suction hose to the required depth.
2. Attach the adapter to the sampling bottle.
3. Create a vacuum using the handpump and collect the sample.
4. Remove the filled sample bottle, close and label it.

UniSampler "Ex"



Sampler especially developed for sampling flammable liquids of Hazard Category A1 (VbF, e.g. fuel). Glass bottle and hose are connected in such a way that they conduct electricity and are earthed via an earthing cable.

- ▶ Complete in a handy transport case incl. 4 m hose (NBR), glass bottle 1000 ml, bottle adapter, bottle stand, vacuum pump, earthing cable and hose-weight made of brass
- ▶ PTB approval D-333-009 618/00

Use

1. Earth the device.
2. Lower the suction hose to the required depth.
3. Attach the adapter to the sampling bottle.
4. Create a vacuum using the handpump and collect the sample.
5. Remove the filled sample bottle, close and label it.

The UniSampler "Ex" was developed in co-operation with the quality association Tankschutz e.V. (non-profit association for tank protection).

UniSampler with hose

Item no.	
5314-2000	N4
Accessories	
Description	Item no.
Suction hose for replacement PVC, 2,5 m	5314-2002 N4
Sampling bottle PP, 100 ml	0319-0100 N3
Sampling bottle PP, 500 ml	0319-0500 N3
Sampling bottle PP, 1000 ml	0319-1000 N3
Sampling bottle PP, 250 ml	0319-0250 N3

UniSampler "Ex"

Item no.	
5314-3000	N4
Accessories	
Description	Item no.
Glass sampling bottle 1000 ml, GL 45	5314-0100 N3

UniSampler with suction lance



Use

1. Set the desired sampling depth by moving the suction lance.
2. Attach the adapter to the sampling bottle.
3. Lower the suction lance into the medium.
4. Create a vacuum using the hand-pump and collect the sample.
5. Remove the filled sample bottle, close and label it.

The collection lance consists of an inner tube and an outer tube. The suction position can be varied steplessly with the outer tube within a height of 0 to 48 cm. The total length of the telescopic suction tube is 100 cm.

- ▶ Suction tube PP, suction hose PVC
- ▶ Incl. 5 sample bottles each PP 250 ml and 500 ml, vacuum pump, universal adapter for sample bottles, 20 seal-it bottle seals
- ▶ Universal bottle adapter made of PVC, for bottle necks Ø 24 mm, 32 mm, 39 mm and 50 mm nominal dimension, for sample bottles 100–1000 ml

UniSampler with suction lance

Item no.

5314-1000

N4

Accessories

Description

Description	Item no.
Sampling bottle PP, 100 ml	0319-0100 N3
Sampling bottle PP, 500 ml	0319-0500 N3
Sampling bottle PP, 1000 ml	0319-1000 N3
Sampling bottle PP, 250 ml	0319-0250 N3

Bürkle – Behind the scenes

There are many ways to order from Bürkle – but all roads lead to the sales department.



Not sure if a product is right for you?

We are here to support you!

We are not robots, but real people who want to help and advise you.

No annoying phone queues or AI voices. We're just a click or a call away to help you personally and directly.



Just give us a call (+49 7635 6121-0) or use the live chat on our website.



Once you place your order, our materials management and production departments will process it directly.



If you order before 1 PM, your goods will leave our warehouse the same day!



Do you have an urgent request? No problem, we also offer express delivery!

More information about Bürkle



LinkedIn



Website



Instagram

Dipping bottles



Dipping containers are used in various areas to collect liquids for sampling. Bürkle produces the most comprehensive collection of dipping containers by a long way, the right product for every use as it were. Bürkle offers dipping bottles and immersion cylinders for sediments, for the area of environmental issues, for chemically aggressive products, for petrochemistry, for the ex protection area etc. The dipping bottles for the Ex protection area are made of nickel-plated brass, therefore they do not oxidise. Dipping vessels can be used for point sampling, all-layer samples and bottom sampling. Dipping vessels are heavy. Lowering requires the use of special manually-operated drum reels with a large winding diameter. Other manually-operated drum reels place too much strain on the user's wrist and could represent a health hazard. Lowering cables and chains made from different materials, as well as manually-operated drum reels, also for Ex-proof applications, available as accessories.

! Observe Ex-proof guidelines when sampling flammable liquids. Only use conductive lowering cables made of nonspark-producing material and conductive hand reels with grounding connection.

Dipping bottle

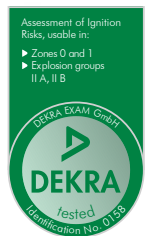
Dipping bottle with glass container for sampling in sewage plants, for mud and water samples. For testing crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants of Hazard Categories IIA and IIB. Completely made from non-spark producing materials. Dipping frame made of nickel-plated brass, easy-click closure made of electrically conductive polyamide.

- ▶ With Easy-Click, safe and practical closure for a rapid bottle exchange
- ▶ High weight (3.2 kg) for fast lowering
- ▶ Bottle made of transparent glass 1000 ml contents
- ▶ Height with handles 330 mm
- ▶ Tested for use in the Ex protection zone 0

! Please order the required lowering cable separately (page 112).

Use

1. Lower the dipping bottle to the required depth.
2. Pull chain/cable with a short, powerful jerk, the stopper opens.
3. The sample flows into the bottle.
4. Raise the bottle with the chain/ cable.
5. Open the Easy-Click, remove the bottle.



Dipping bottle

Capacity ml	Dia. mm	Item no.
1000	148	5365-4000 N4



Dipping bottle Ex

Dipping bottle for testing mineral oil products Category A, Explosion Categories IIA, IIB and IIC, crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants. Completely made from non-spark producing materials, nickel-plated

- ▶ Screw-off bottle head – easy cleaning
- ▶ Robust handle
- ▶ High weight (3.3 kg) for fast lowering
- ▶ Height with handles 443 mm
- ▶ Tested for use in the Ex protection zone 0

Please order the required lowering cable separately (page 112).



Use

1. Lower the dipping bottle to the required depth.
2. Pull chain/cable with a short, powerful jerk, the stopper opens.
3. The sample flows into the bottle.
4. Raise the bottle with the chain/cable.
5. Empty the bottle.



Immersion cylinder

Immersion cylinder for sampling crude oil, liquid mineral oil products, fuels, special and test fuels, fuel oils, petroleum and liquid lubricants in Explosion Categories IIA, IIB and IIC. Completely made from non-spark producing materials, nickel-plated.

- ▶ Screw-off top enables easy cleaning
- ▶ High weight for fast lowering
- ▶ Robust handle
- ▶ Tested for use in the Ex protection zone 0

Please order the required lowering cable separately (page 112).

Use

Point sampling

1. Two lowering cables are required for this (bearer cable and hauling cable).
2. Lower the immersion cylinder to the required depth.
3. When the target has been reached, pull on the hauling cable, the valve opens.
4. The sample flows into the bottle.
5. Release the hauling cable. The valve closes. Pull the cylinder back on the bearer cable.
6. Empty the cylinder via the valve at the bottom.

Bottom sampling

1. Lower the immersion cylinder on the cable to the ground.
2. The valve opens automatically because of the immersion cylinder's own weight.
3. The sample flows into the cylinder.
4. Pull the cylinder back on the cable, the valve closes independently.
5. Empty the cylinder via the valve at the bottom.



Dipping bottle Ex

Capacity ml	Dia. mm	Item no.
1000	89	5365-3000 N4

Immersion cylinder

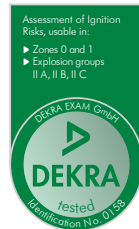
Capacity ml	Dia. mm	Height mm	Weight g	Item no.
500	75	300	3000	5365-7500 N4
1000	75	450	4300	5365-7000 N4

Dipping vessel

Dipping vessel for taking all-layer samples from tanks, tank wagons, water courses, water purification plants.

- ▶ With Easy-Flow, the flow optimised flow valve
- ▶ High weight for faster lowering
- ▶ Contents 1000 ml
- ▶ Height with handles 427 mm
- ▶ Made of non-spark producing brass or stainless steel AISI 304 (1.4301) for Ex area
- ▶ Tested for use in the Ex protection zone 0, Explosion Categories IIA, IIB and IIC

Please order the required lowering cable separately (page 112).

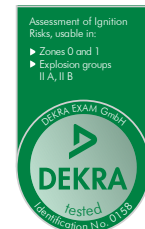


Mini immersion cylinder

For sampling liquids in narrow places where access is difficult. Can also be used in curved dipping tubes and barrels with narrow openings.

- ▶ Diameter only 32 mm
- ▶ Weight 330 g
- ▶ Stainless steel AISI 304 (1.4301)
- ▶ Screw-off top enables easy cleaning
- ▶ Tested for use in the Ex protection zone 0, Explosion Categories IIA and IIB

Please order the required lowering cable separately (page 112).



Use

1. When the dipping vessel is lowered, the liquid constantly runs through it.
2. When it is pulled back, both valves close automatically.
3. Emptying at the top via the open flaps.

Use

1. When the dipping vessel is lowered, the liquid constantly runs through it.
2. When it is pulled back, both valves close automatically.
3. It can be emptied via the base valve or the upper screw-off cap.

Dipping vessel								
Material	Dia. mm	Weight g	Item no.					
brass	82	2300	5365-1000 N4					
stainless steel AISI 304	82	2000	5365-2000 N4					

Mini immersion cylinder								
Capacity ml	Dia. mm	Height mm	Item no.					
50	32	180	5365-5000 N4					

Target immersion cylinder



Precise liquid samples can be taken with the Target immersion cylinder.

- ▶ Weight 2.6 kg
- ▶ Incl. venting lowering cable (5 m), valve and cable reel
- ▶ Screw-off top enables easy cleaning

Use

1. Lower the immersion cylinder to the required depth on the high-tensile, closed hose.
2. When the target has been reached, open the air valve at the tube end.
3. This vents the immersion cylinder and fills it.
4. Retrieve the immersion cylinder.
5. Open the cover and pour out the sample.

Target immersion cylinder			
Capacity ml	Dia. mm	Height mm	Item no.
500	75	210	5365-6000 N4

AquaSampler



Sampler for ground water samples from wells, pits and other sources. Fits all normal well shafts with control openings to Ø 2", without tilting or getting stuck. Ultra pure materials guarantee the highest degree of sample purity. Easy to clean thanks to rounded edges and threads.

- ▶ FEP/PTFE ultra pure, anti adhesive surface



Please order the required lowering cable separately (page 112).

AquaSampler			
Capacity ml	Total length cm	Outer dia. mm	Item no.
350	40	46	5308-0350 N4
700	76	46	5308-0700 N4
1050	107	46	5308-1050 N4

Manually-operated reels



Manually-operated drum reel PP



Manually-operated drum reel PA electrically-conductive



Manually-operated reel Ex with grounding cable

The manually-operated drum reels are used to lower dipping bottles and immersion cylinders safely to the required depth in shafts, wells and tanks and then to pull them up again. The manually-operated drum reels can be equipped with various cables or chains. If flammable or highly flammable liquids are to be collected, then electrically conductive manually-operated drum reels must be used together with an earthing cable. The dipping bottles must be made of non-sparking metal.

- ▶ High winding capacity of up to 150 m for cable 2 mm dia.
- ▶ Reel width: inner 44 mm, outer 55 mm, reel diameter: inner 100 mm, outer 180 mm

! Please order the required lowering cable separately.

Manually-operated reel

Model	Item no.
① Manually-operated reel PP	5309-0010 N4
② Manually-operated reel PA	5309-0020 N4
③ Manually-operated reel Ex with grounding cable	5309-0030 N4



Lowering cables



Stainless steel lowering cable, PTFE-coated 316L



Lowering cable AISI



Lowering cable plastic



Copper lowering cable EX with loops

Lowering cables

For dipping bottles and immersion cylinders, matching manually-operated drum reels made of various materials. Tensile load max. up to 10 kg.



Lowering/hoisting chain stainless steel



Snap-hook AISI 316L



Brass shackle

Lowering cable

Model	Length m	Dia. mm	Item no.
④ Stainless steel lowering cable, PTFE-coated	10	2	5309-0110 N4
④ Stainless steel lowering cable, PTFE-coated	25	2	5309-0125 N4
④ Stainless steel lowering cable, PTFE-coated	50	2	5309-0150 N4
⑤ Stainless steel lowering cable	10	1.25	5309-0301 N4
⑤ Stainless steel lowering cable	25	1.25	5309-0302 N4
⑤ Stainless steel lowering cable	50	1.25	5309-0305 N4
⑥ Lowering cable made of PP cord	10	2	5309-0201 N4
⑥ Lowering cable made of PP cord	25	2	5309-0202 N4
⑥ Lowering cable made of PP cord	50	2	5309-0205 N4
⑦ Copper lowering cable EX with loops	10	4.5	5309-0410 N4
⑦ Copper lowering cable EX with loops	25	4.5	5309-0425 N4
⑦ Copper lowering cable EX with loops	50	4.5	5309-0450 N4
⑧ Stainless steel chains	10	2.3	5309-0510 N4
⑧ Stainless steel chains	25	2.3	5309-0525 N4
⑧ Stainless steel chains	100	2.3	5309-0550 N4
⑨ Snap hooks AISI 316L	5		0006-5300 N4
⑩ Brass shackle	4.5		0006-5301 N4