

ASSISTENT BASIC



Basic Line – High quality, reliable and economical

Our Basic Line consists of precision glass instruments that are manufactured strictly in accordance with our high quality guidelines, despite being produced outside Germany. We thus offer laboratories a reliable product line that impresses in terms of both performance and durability.

The Basic Line is particularly aimed at users who value solid quality but need to work economically. It is the ideal choice for cost-conscious laboratories that need an efficient balance between performance and budget without compromising on functionality.



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BEAKERS



Precision that simplifies everyday life

Our ASSISTENT beakers made of high-quality laboratory glass have been specially developed for daily use under demanding laboratory conditions.

The clear and easy-to-read graduation allows for reliable volume determination, while the integrated spout ensures controlled and clean transfer of liquids. They combine precision, safety and practical handling for smooth and efficient everyday laboratory work.

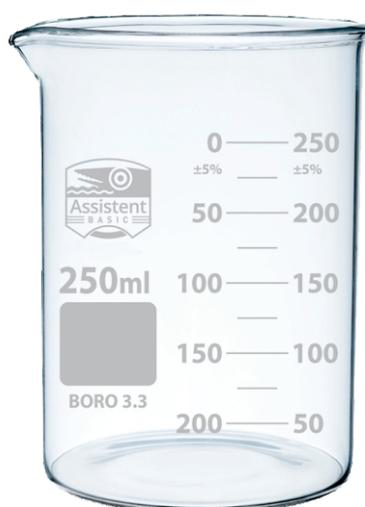
Beakers

low form, with scale

BASIC

Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



Art.No.	Capacity approx. (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

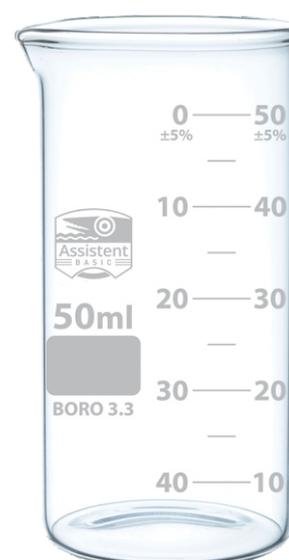
Beakers

tall form, with scale

BASIC

Boro 3.3

- + with spout
- + DIN EN ISO 3819
- + white graduation



Art.No.	Capacity approx. (ml)	Dimensions approx. (mm)	PU (pcs)
51929018	25	32 x 55 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

MEASURING CYLINDERS

Precision in every shape and form

ASSISTENT cylinders stand for maximum measuring accuracy and durability. Thanks to carefully crafted scales and resistant materials, they are the ideal choice for everyday use. Whether as standard measuring cylinders, mixing cylinders for sample preparations or Nessler cylinders for colorimetric determinations – we deliver quality that fits.

Our cylinders impress with their clear scales, robust materials and standard-compliant manufacturing. They are the reliable basis for laboratory processes in research, teaching and medicine.

Measuring cylinders

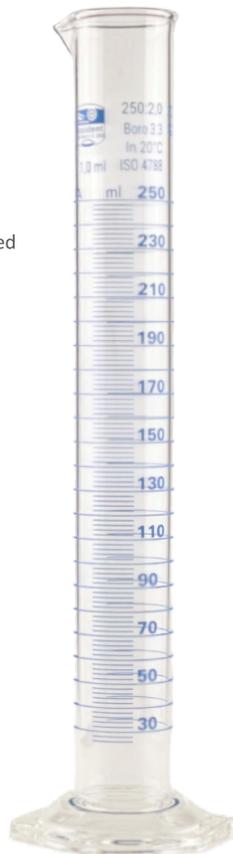
Class A
tall form

BASIC

Boro
3.3

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. Please indicate when ordering.

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



Art.No.	Capacity (ml)	Division (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

Measuring cylinders

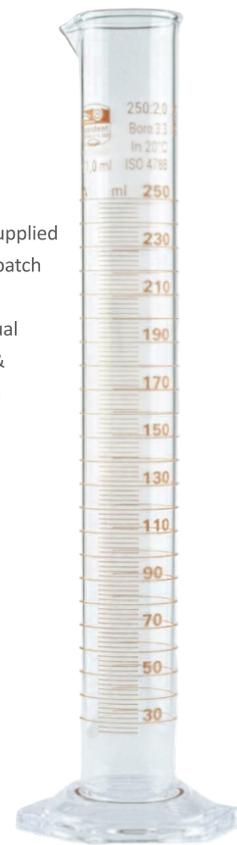
Class A
tall form

BASIC

Boro
3.3

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. Please indicate when ordering.

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



Art.No.	Capacity (ml)	Division (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

MEASURING CYLINDERS

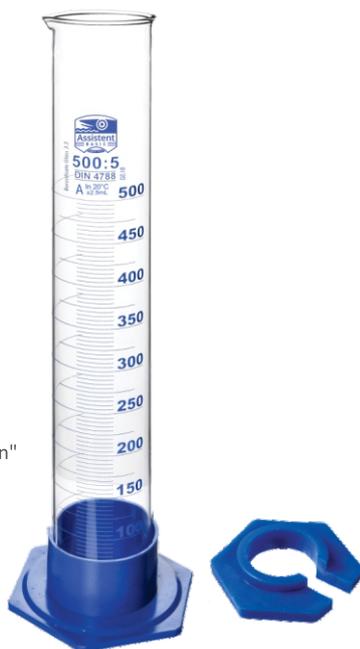


Measuring cylinders

Class B
tall form

BASIC

Boro 3.3



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

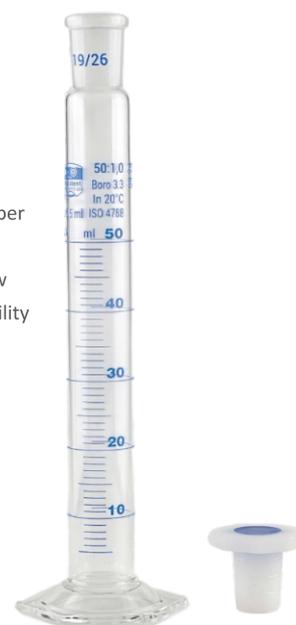
Art.No.	Capacity (ml)	Division (ml)	Tolerance (±ml)	PU (pcs)
52189012	10	0.2	0.2	10
52189018	25	0.5	0.5	10
52189024	50	1.0	1.0	10
52189030	100	1.0	1.0	10
52189048	250	2.0	2.0	10
52189060	500	5.0	5.0	2
52189066	1000	10.0	10.0	1

Mixing cylinders

Class A
tall form

BASIC

Boro 3.3



- + with interchangeable NS 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 (±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

Nessler cylinders

colour comparison, flat bottom

BASIC

Boro 3.3



- + helps in comparing colour of water samples
- + blue graduation

Art.No.	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

VOLUMETRIC FLASKS

Volume precision for reliable analyses

ASSISTENT volumetric flasks are the first choice when it comes to accurately measuring and preparing solutions. Careful calibration ensures reproducible results, while high-quality glass and precisely fitting PE stoppers offer absolute safety in everyday laboratory work.

Available in different volumes and with various standard ground joints, our volumetric flasks provide the ideal basis for precise analyses in research, teaching and quality control.

Volumetric flasks

Class A
trapezoidal, clear glass

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
- + with ISO batch certificate

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



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

BASIC

Boro
3.3

- + 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. Please indicate when ordering.



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

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

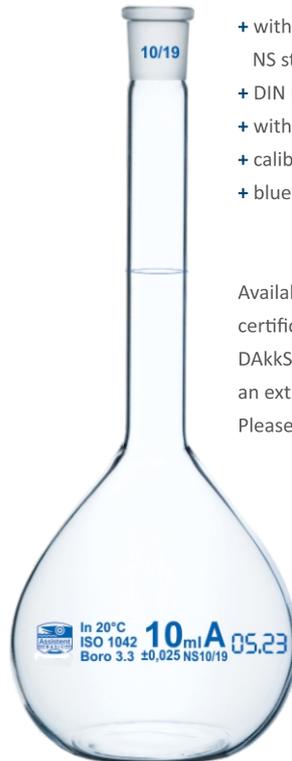
Available on request with individual certificate, USP batch certificate & DAkkS calibration certificate at an extra charge.
Please indicate when ordering.



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

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.
Please indicate when ordering.



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

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.

Please indicate when ordering.

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

PYCNOMETERS

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

BASIC

Boro
3.3

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



Art.No.	Capacity (cm³)	PU (pcs)
52570316	10	1
52570324	25	1
52570332	50	1
52570340	100	1

STOPPERS



Safety in everyday laboratory work

ASSISTENT stoppers guarantee a tight, reliable seal for every laboratory vessel. Whether made of glass or polyethylene, they are precision-manufactured and tailored to fit different standard ground joints. This ensures that samples, solutions and reagents remain safely protected from contamination and evaporation.

Stoppers made of polyethylene

BASIC



- + with standard joint
- + DIN 12252
- + packaged 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
- + packaged 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

Stoppers amber glass hexagonal, hollow glass

BASIC

Boro
3.3



- + with standard joint
- + DIN 12252
- + packaged in pieces of 100

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

ERLENMEYER FLASKS

Versatility in distinctive shape

ASSISTENT Erlenmeyer flasks are true all-rounders in the laboratory.

Their conical shape makes them ideal for mixing, heating or titrating liquids without any loss. Made of sturdy borosilicate glass, they are highly resistant to heat and chemicals.

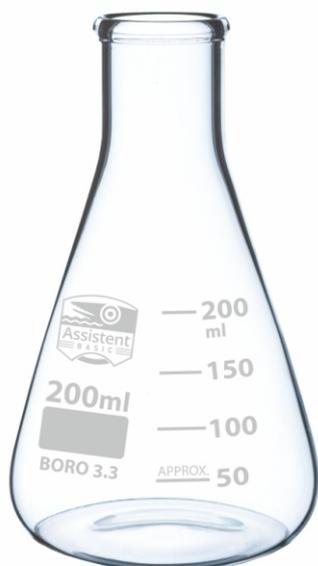
Whether in research, teaching, analysis or biology, our Erlenmeyer flasks stand for flexibility, durability and reliability in everyday use.

Erlenmeyer flasks narrow neck

BASIC

Boro
3.3

- + DIN ISO 1773
- + white graduation
- + with scale



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	28	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 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



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	105 x 64 Ø	14/23	10
51915018	100	105 x 64 Ø	29/32	10
51915020	100	105 x 64 Ø	19/26	10
51915021	100	105 x 64 Ø	24/29	10
51915026	250	145 x 85 Ø	19/26	10
51915028	250	145 x 85 Ø	24/29	10
51915030	250	145 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

Erlenmeyer flasks with glass stopper

BASIC

Boro
3.3

- + DIN EN ISO 4797
- + white graduation
- + with NS joint size labelling
- + with scale



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

ERLENMEYER FLASKS

Erlenmeyer flasks (baffled flasks)

BASIC

Boro
3.3



- + white graduation
- + with scale

Flask with four integrated baffles to improve diffusion. Baffles cause turbulent flow in the glass flask, thereby increasing the gas exchange surface area and thus increasing oxygen transfer. Enable uniform agitation for effective mixing.

Art.No.	Capacity (ml)	Dimensions approx. (mm)	Neck ϕ approx. (mm)	PU (pcs)
51909012	250	145 x 85 ϕ	38	6
51909014	500	182 x 105 ϕ	38	6
51909016	1000	230 x 129 ϕ	38	6
51909018	2000	275 x 165 ϕ	38	4

Erlenmeyer flasks narrow neck, with thread

BASIC

Boro
3.3



- + with blue screw cap made of PP
- + white graduation
- + with scale
- + autoclavable

Art.No.	Capacity (ml)	Thread	Dimensions approx. (mm)	PU (pcs)
51943024	100	GL 32	105 x 64 ϕ	2
51943036	250	GL 45	145 x 85 ϕ	2
51943048	500	GL 45	180 x 105 ϕ	2
51943054	1000	GL 45	220 x 131 ϕ	2

Filtering flasks suction flasks, Erlenmeyer shape

BASIC

Boro
3.3



- + DIN ISO 3585
- + with glass hose connection on the side

Art.No.	Capacity (ml)	Dimensions approx. (mm)	PU (pcs)
51270024	100	110 x 64 ϕ	2
51270036	250	155 x 85 ϕ	6
51270042	500	190 x 105 ϕ	6
51270048	1000	230 x 136 ϕ	6
51270056	2000	290 x 166 ϕ	10

BOILING FLASKS



Steadfast, precise, indispensable

ASSISTENT flasks are important basic elements in distillation, synthesis and separation processes. The high-quality borosilicate glass guarantees temperature resistance, chemical resistance and a long service life. Trust in tested quality for precise results and reliable processes.

With different shapes, volumes and fittings, flexible solutions are available for a wide range of applications in research, education and routine work.

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

Receiving flasks round bottom, narrow neck

BASIC

Boro
3.3

- + DIN ISO 1773
- + white graduation
- + with matt area for marking
- + beaded rim
- + uniform wall thickness
- + ideal for heating



Art.No.	Capacity (ml)	Dimensions approx. (mm)	Neck Ø (mm)	PU (pcs)
51925024	50	95 x 51 Ø	22	10
51925030	100	110 x 64 Ø	26	10
51925036	250	144 x 85 Ø	34	10
51925042	500	168 x 105 Ø	34	10
51925048	1000	200 x 131 Ø	42	10
51925054	2000	240 x 166 Ø	50	6
51925060	4000	290 x 207 Ø	50	1
51925066	6000	330 x 236 Ø	50	1
51925072	10000	380 x 279 Ø	65	1

BOILING FLASKS

Boiling flasks round bottom, ground neck

BASIC Boro 3.3

- + 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



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, ground neck

BASIC Boro 3.3

- + DIN EN ISO 4797
- + white graduation
- + flat bottom
- + short neck
- + ideal for boiling processes
- + with matt area for marking



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

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 solutions

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

BOILING FLASKS



Boiling flasks with ground joint, with slanted 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
- + with matt area for marking
- + used in the rotary evaporator
- + ideal for carrying out reactions on a small scale
- + packaged in pieces of 10

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 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

SEPARATING FUNNELS

Clean separation for precise results

ASSISTENT separating funnels enable the precise and controlled separation of liquids with different densities. Thanks to precisely machined stopcocks and high-quality glasswork, every phase separation is safe and reproducible. The ergonomic design ensures stable handling and safe use in everyday laboratory work.

Our separating funnels are available in various volumes and designs and provide the ideal basis for precise separation processes in research, quality control and education.

Separating funnels Squibb with PE stopper, PTFE stopcock

BASIC Boro 3.3

- + 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



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

BASIC Boro 3.3

- + 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



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

BASIC Boro 3.3

- + 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



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

FUNNELS



Precise filling and separation made easy

ASSISTENT funnels combine ease of use with precision and durability. Whether powder funnels for the clean transfer of solid substances or standard funnels for everyday laboratory work – every model impresses with its well-designed shape, smooth glass surfaces and the use of high-quality materials.

Our funnels are available in various designs and sizes, offering the right solution for a wide range of everyday laboratory applications: from simple decanting to the demanding separation of liquids.

Funnels short stem

BASIC

Boro
3,3



- + DIN ISO 4798
- + at a bowl angle of 60°
- + ideally used for filtering and decanting liquids of varied densities

Art.No.	Diameter approx. (mm)	Stem Ø approx. (mm)	Stem length approx. (mm)	PU (pcs)
54003004	30	6	30	10
54003016	40	6	40	10
54003020	50	7	50	10
54003024	55	8	55	10
54003028	60	8	60	10
54003030	65	8	65	10
54003032	70	8	70	10
54003034	75	8	75	10
54003036	80	9	80	10
54003038	100	10	100	10
54003042	150	16	150	10
54003044	120	16	120	10
54003048	200	24	200	10

Funnels long stem

BASIC

Boro
3,3



- + at a bowl angle of 60°
- + ideally used for filtering and decanting liquids of varied densities

Art.No.	Diameter approx. (mm)	Stem Ø approx. (mm)	Stem length approx. (mm)	PU (pcs)
54000008	35	6	150	10
54000012	40	6	150	10
54000016	45	6	150	10
54000020	50	7	150	10
54000028	60	8	150	10
54000032	65	8	150	10
54000036	80	9	150	10
54000040	100	10	150	10
54000044	120	16	150	10
54000048	150	16	200	6
54000056	200	24	200	6
54000064	300	30	175	6

FUNNELS

Powder funnels

BASIC

Boro
3.3



- + at a bowl angle of 60°
- + ideal for filtering and transferring powders

Art.No.	Diameter approx. (mm)	Stem \varnothing approx. (mm)	PU (pcs)
54001028	60	25	6
54001036	80	25	6
54001040	100	25	6
54001044	120	25	2

WEIGHING BOTTLES

Weighing bottles tall form

BASIC

Boro
3.3



- + with interchangeable ground joint cover
- + with frosted label

Art.No.	Height x outer \varnothing approx. (mm)	PU (pcs)
54250001	40 x 25 \varnothing	10
54250002	50 x 25 \varnothing	10
54250003	50 x 30 \varnothing	10
54250004	65 x 30 \varnothing	10
54250005	70 x 35 \varnothing	10
54250006	50 x 40 \varnothing	10
54250007	80 x 40 \varnothing	10
54250008	90 x 40 \varnothing	10
54250009	80 x 50 \varnothing	10
54250010	100 x 50 \varnothing	10

Weighing bottles low form

BASIC

Boro
3.3



- + with interchangeable ground joint cover
- + with frosted label

Art.No.	Height x outer \varnothing approx. (mm)	PU (pcs)
54251011	30 x 35 \varnothing	10
54251012	25 x 40 \varnothing	10
54251013	30 x 40 \varnothing	10
54251014	25 x 50 \varnothing	10
54251015	30 x 50 \varnothing	10
54251016	50 x 50 \varnothing	10
54251017	30 x 60 \varnothing	10
54251018	30 x 80 \varnothing	10

WEIGHING SCOOPS



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

BOTTLES

Aspirator bottles with socket

BASIC

Boro
3.3



- + DIN EN ISO 4796-3
- + with PP screw cap and pouring ring
- + white graduation
- + NS 29/32

Art.No.	Capacity (ml)	Dimensions approx. (mm)	Thread	PU (pcs)
51277003	5000	323 x 181 Ø	GL 45	1
51277004	10000	410 x 227 Ø	GL 45	1
51277005	20000	500 x 296 Ø	GL 45	1

WATCH GLASSES

Watch glasses

BASIC

Boro 3.3

+ fire polished rim



Art.No.	Diameter approx. (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-/CRYSTALLIZING DISHES

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

MICROSCOPE SLIDES



Clear basis for every preparation

ASSISTENT microscope slides provide the ideal basis for microscopic examinations and impress with their outstanding quality and precision. Available with or without frosted edges, matt on one or both sides, with cut or ground edges. This ensures that every specimen is displayed reliably and in detail.

Our microscope slides are available in various designs and are perfect for research, diagnostics and teaching – wherever clear results are essential.

Microscope slides without matt strips cut



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)*	2500

*equals minimum order quantity

Microscope slides without matt strips ground



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)*	2500

*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.

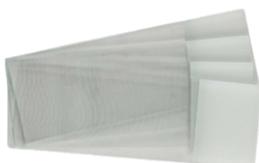
ISO 8037/1

BASIC

Art.No.	52406010
Dimensions (mm)	75 x 25
Thickness (mm)	1
PU (pcs/box)	50
PU (pcs/carton)*	2500

*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 long 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)*	2000

*equals minimum order quantity

COVER GLASSES

Clear and reliable for microscopic precision

Our ASSISTENT cover glasses are made of high-quality, optically pure glass and are specially designed for use in microscopy. The extremely thin and flat design ensures optimal optical properties and enables clear, undistorted imaging of even the finest structures. They are compatible with all common microscope slides and microscope systems and are ideal for routine examinations, research applications and diagnostic work. With our cover glasses, you benefit from high quality, reliable plane parallelism and the best possible optical performance for precise and reproducible microscopic results.

Cover glasses

BASIC

- + thickness 1 = 0.13 - 0.16 mm
- + DIN ISO 8255
- + packaged in 200 pieces/box:
1.000 pieces = minimum order quantity



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 round

BASIC

- + thickness 1 = 0.13 - 0.16 mm
- + DIN ISO 8255
- + packaged in 100 pieces/box: 1.000 pieces = minimum order quantity



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

PETRI DISHES

Petri dishes

BASIC

Boro 3.3

- + with cover
- + 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

FILTRATION



Pure solutions through dependable filtration

ASSISTENT filtration systems offer a wide range of products for the effective separation and purification of liquids. Our vacuum filter sets allow samples to be processed quickly and reliably, while membrane filtration systems enable precise control of the finest particles. Wire gauze and Gooch crucibles are synonymous with proven laboratory practice in gravimetric analysis. In addition, Büchner funnels in various sizes ensure efficient solid-liquid separation in suction filtration processes.

Our solutions guarantee clean sample preparation and are therefore indispensable for accurate and reliable results in everyday laboratory work.

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

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

FILTRATION

Vacuum filter set

- + 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)	Filtration base approx. (mm)	Capacity (ml)	NS	PU (pcs)
50647002	300	47	1000	45/46	1



Membrane filtration assembly

- + I/C joint, cup and clamp
- + supplied without flask & clamp

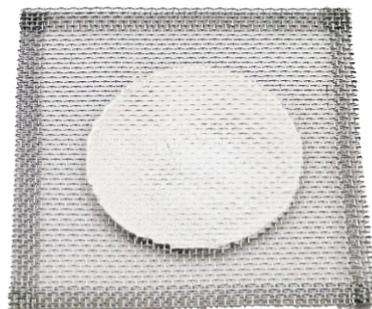
Art.No.	Filtration base approx. (mm)	Capacity (ml)	Funnel capacity approx. (mm)	PU (pcs)
50650003	B 24	300	47	1



Wire gauze

Art.No.	Dimensions approx. (mm)	PU (pcs)
51071012	120 x 120	10
51071016	150 x 150	10
51071020	200 x 200	10

- + made of stainless steel
- + with a ceramic circular plate at the center
- + close mesh with folded edges
- + free of hazardous materials



CONDENSERS



Efficient cooling for precise processes

ASSISTENT condensers and chromatography columns are indispensable components for distillation, extraction and chromatography processes in the laboratory. Whether Dimroth and Graham condensers for particularly efficient heat exchange, Liebig and Allihn condensers as proven standard solutions, or special designs such as extractors for Soxhlet apparatus. Each model impresses with its precise manufacturing and consistent performance. The range is complemented by chromatography columns, which enable clean and reproducible separation of substance mixtures.

With their high cooling capacity and reliability, they form the backbone of many laboratory setups and deliver results you can rely on.

Graham condensers, glass side arm with distillate coil, interchangeable inner and outer joints

- + DIN 12592
- + interchangeable inner and outer joints come with glass connector
- + 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, PP side arm with distillate coil, interchangeable inner and outer joints

- + 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

CONDENSERS

Allihn condensers, glass side arm interchangeable inner and outer joints

- + DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + interchangeable inner and outer joints come with glass connector
- + 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, PP side arm interchangeable inner and outer joints

- + 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

CONDENSERS



Liebig condensers, glass side arm interchangeable inner and outer joints

- + DIN 12576
- + dropper tip
- + thin wall of the inner tube enables efficient temperature transfer
- + low cooling capacity
- + interchangeable inner and outer joints come with glass connector
- + 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, PP side arm interchangeable inner and outer joints

- + 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)
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



BASIC

Boro 3.3

CONDENSERS

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

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

CONDENSERS



Allihn condensers, glass side arm for Soxhlet

- + 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	Glass	1	



BASIC

Boro 3.3

Allihn condensers, PP side arm for Soxhlet

- + 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

CONDENSERS

Dimroth condensers, glass side arm for Soxhlet

- + 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, PP side arm for Soxhlet

- + 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

NOTES



A series of 20 horizontal grey bars, each representing a line of text for notes.

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