

General Laboratory Supplies

Sample preparation and storage impose a wide variety of requirements on laboratory instruments. Depending on the requirements, we offer materials ranging from glass to specialty plastics, like PFA for trace analysis.

The quality you need.





PARAFILM® M Sealing film

PARAFILM® M stretches up to 200% and clings even around irregular shapes and surfaces. The sealing film is free of plasticizers and consists primarily of polyolefins and paraffin waxes. If PARAFILM® M comes in contact with foods, the relevant regulations should be observed. PARAFILM® M conforms to the provisions of the US FDA Food and Drug Administration when used below 55 °C and observance of GMP (Good Manufacturing Practice).

Chemical resistance

PARAFILM® M is resistant up to 48 hours against many polar substances, e.g., saline solutions, inorganic acids and alkaline solutions. After this period, embrittlement may occur.

PARAFILM® M Sealing film

Width mm	Length m	Pack of	Cat. No.
50	75	24	7016 11
100	38	12	7016 05
100	75	12	7016 06
500	15	6	7015 01



PARAFILM® M Cutter

The handy PARAFILM® M Cutter is convenient for clean storage and cutting of PARAFILM® M sealing film. Suitable for 50 mm and 100 mm wide rolls. Pack of 1.

Cat. No.	7016 50
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Physical properties

Toxicity: non-toxic
 Melting point: 60 °C
 Flash point: 301 °C
 Temperature range (continuous use): -45 °C to +50 °C
 Stretching ability: 200%
 Elongation at tear: 300%
 Gas permeability in 24 hours at 23 °C with 50% relative humidity:
 O₂ (oxygen): ≤ 350 cm³/m²
 N₂ (nitrogen): ≤ 105 cm³/m²
 CO₂ (carbon dioxide): ≤ 1100 cm³/m²
 Water vapor permeability in 24 hours at 37 °C and 90% relative humidity: 0.8 g/m²

Effects of 48 hours of exposure at 23 °C

Acids:

Hydrochloric acid 36.5%	resistant
Sulphuric acid 98%	resistant
Nitric acid 95%	resistant*

Alkaline solutions:

Sodium hydroxide 22%	resistant
Ammonia 28%	resistant

Saline solutions:

Sodium chloride 20%	resistant
Potass. permanganate 5%	resistant*
Iodine solution 0.1 mol/l	resistant*

Organic solvents:

Methanol	resistant
Ethanol	resistant
Isopropanol	resistant
Diethylether	not resistant
Chloroform	not resistant
Carbon tetrachloride	not resistant
Benzene	not resistant
Toluene	not resistant

* brown discoloration



Flat bottom flasks, narrow neck

DURAN®. DIN ISO 1773. With beaded rim. Pack of 10 (3000 ml: pack of 1).

Capacity ml	Neck outer-Ø mm	Flask outer-Ø mm max.	Height mm	Cat. No.
50	26	51	90	917 17
100	26	64	110	917 24
250	34	85	140	917 36
500	34	105	170	917 44
1000	42	131	200	917 54
3000	50	185	250	917 68

Erlenmeyer flasks

Narrow neck

DURAN®. DIN ISO 1773. With beaded rim and graduation.
Pack of 10 (3000 ml: Pack of 2; 5000 ml: Pack of 1).

Capacity ml	Neck outer-Ø mm	Flask outer-Ø mm max.	Height mm	Cat. No.
25	22	42	70	927 14
50	22	51	85	927 17
100	22	64	105	927 24
200*	34	79	131	927 32
250	34	85	140	927 36
300*	34	87	156	927 39
500	34	105	177	927 44
1000	42	131	220	927 54
2000	50	166	280	927 63
3000	50	187	310	927 68
5000	50	220	365	927 73

* in addition to the DIN range

Wide neck

DURAN®. DIN EN ISO 24450. With beaded rim and graduation. Pack of 10.

Capacity ml	Neck outer-Ø mm	Flask outer-Ø mm max.	Height mm	Cat. No.
25*	31	43	70	928 14
50	34	51	85	928 17
100	34	64	105	928 24
200*	50	79	131	928 32
250	50	85	140	928 36
300*	50	87	156	928 39
500	50	105	175	928 44
1000	50	131	220	928 54
2000*	72	153	275	928 63

* in addition to the DIN range

Beakers

Low form

DURAN®. DIN 12331/ISO 3819.

With graduation and spout.

Pack of 10

(3000 ml: Pack of 4; 5000 ml: Pack of 1).

Capacity ml	Ø x Height mm	Cat. No.
5*	22 x 30	912 10
10*	26 x 35	912 12
25	34 x 50	912 14
50	42 x 60	912 17
100	50 x 70	912 24
150	60 x 80	912 29
250	70 x 95	912 36
400	80 x 110	912 41
600	90 x 125	912 48
800	100 x 135	912 53
1000	105 x 145	912 54
2000	132 x 185	912 63
3000	152 x 210	912 68
5000	170 x 270	912 73

* without graduation

Tall form

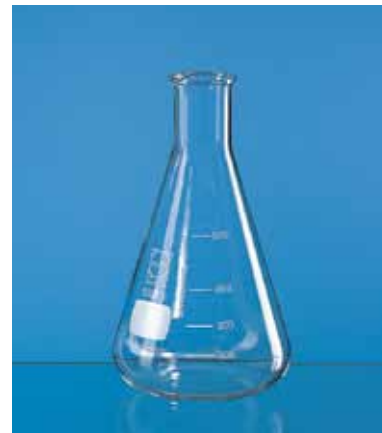
DURAN®. DIN 12331/ISO 3819.

With graduation and spout.

Pack of 10

(3000 ml: Pack of 2).

Capacity ml	Ø x Height mm	Cat. No.
50	38 x 70	906 17
100	48 x 80	906 24
150	54 x 95	906 29
250	60 x 120	906 36
400	70 x 130	906 41
600	80 x 150	906 48
800	90 x 175	906 53
1000	95 x 180	906 54
2000	120 x 240	906 63
3000	135 x 280	906 68



Beakers, low form

PLASTIBRAND®,
with blue printed scale or embossed

ISO 7056. With graduation, beaded rim and spout. Space-saving stacking design. Cleaning at temperatures below 60 °C is recommended to preserve marks and inscriptions. For autoclaving (121 °C), beakers with an embossed scale should be selected.



PP, high clarity

Pack of 5.

Capacity ml	Subdivision ml	Height mm	max. Ø mm	Blue scale Cat. No.	Embossed scale Cat. No.
25	5	49	41	894 20	896 20
50	10	60	50	894 28	896 28
100	20	70	59	894 38	896 38
250	50	95	80	894 48	896 48
400*	50	110	92	894 52	896 52
500	50	120	102	894 54	896 54
600*	50	125	103	894 56	896 56
1000	100	147	120	894 62	896 62
2000	200	187	150	894 64	896 64
3000*	200	212	172	894 66	896 66
5000	500	250	204	894 70	896 70

* in addition to ISO 7056

PMP, transparent

Pack of 5 (2000 ml to 5000 ml: Pack of 1).



Capacity ml	Subdivision ml	Height mm	max. Ø mm	Blue scale Cat. No.	Embossed scale Cat. No.
25	5	49	41	893 20	895 20
50	10	60	50	893 28	895 28
100	20	70	59	893 38	895 38
250	50	95	80	893 48	895 48
400*	50	110	92	893 52	895 52
500	50	120	102	893 54	895 54
600*	50	125	103	893 56	895 56
1000	100	147	120	893 62	895 62
2000	200	187	150	893 64	895 64
3000*	200	212	172	893 66	895 66
5000	500	250	204	893 70	895 70

* in addition to ISO 7056

Graduated beakers with handle

PLASTIBRAND®,
with blue printed scale or embossed

PP, high clarity. Ergonomic handle for secure grip. Functional spout to minimize spills. Cleaning at temperatures below 60 °C is recommended to preserve marks and inscriptions. For autoclaving (121 °C), beakers with an embossed scale should be selected.

Capacity ml	Subdivision ml	Height mm	max. Ø mm	Pack of	Blue scale Cat. No.	Embossed scale Cat. No.
50	2	61	50	10	404 28	406 28
100	5	72	60	10	404 38	406 38
250	10	97	80	6	404 48	406 48
500	10	121	102	6	404 54	406 54
1000	20	149	123	6	404 62	406 62
2000	50	189	152	2	404 64	406 64
3000	50	215	172	2	404 66	406 66
5000	100	253	200	2	404 70	406 70



General Laboratory

Beakers, low form

PLASTIBRAND®

ETFE, translucent. Excellent chemical resistance. With graduation, beaded rim and spout. Pack of 1.

Capacity ml	Subdivision ml	Height mm	Ø mm	Cat. No.
25	5	50	32	902 24
50	10	59	39	902 28
100	20	72	50	902 38
250	50	96	67	902 48
400	50	109	77	902 52
500	100	122	88	902 54
600	100	125	91	902 56
1000	100	143	105	902 62



Beakers, low form

PLASTIBRAND®

PFA. ISO 7056. Easy to read embossed scale, wear-resistant when used frequently. Space-saving stackable design. Autoclavable, easy to clean, withstands temperatures from -200 °C to 260 °C. Pack of 1.

Capacity ml	Subdivision ml	Height mm	Ø mm	Cat. No.
25	5	50	32	901 20
50	10	59	39	901 28
100	20	72	50	901 38
250	50	96	67	901 48
500	100	122	88	901 54
1000	100	141	109	901 62





Beakers, low form

PTFE. Excellent thermal and chemical resistance. With reinforced rim and spout. Without graduation. Pack of 1.

Capacity ml	Ø mm	Height mm	Cat. No.
5	20	26	903 05
10	24	33	903 08
25	32	47	903 20
50	43	55	903 28
100	54	68	903 38
150	59	75	903 44
250	66	97	903 48
400	80	125	903 52
500	90	125	903 54
1000	100	155	903 62
2000	125	205	903 64



Sampling dippers

PTFE. With reinforced rim and spout. PTFE handle with steel core. Optional extension rod for increased handle length. Pack of 1. (Extension rod, length 600 mm. Pack of 1. Cat. No. 904 70)

Capacity ml	Ø mm	Height mm	Cat. No.
100	55	65	904 38
250	70	95	904 48
500	80	125	904 54
1000	105	155	904 62



Erlenmeyer flasks, wide neck

with screw cap

PP, high clarity. With graduation. Neck with standard ground socket. Pack of 6 (1000 ml: Pack of 4).

(Conical joint stopper, PE-LD: STJ 34/35 Cat. No. 1444 40, STJ 45/40 Cat. No. 1444 45. Pack of 1.)

Capacity ml	Thread	Flask outer-Ø mm max.	Height mm	Neck size	Cat. No.
50	GL 40	52	90	34/35	931 70
100	GL 40	64	110	34/35	931 72
250	GL 52	85	140	45/40	931 75
500	GL 52	108	180	45/40	931 80
1000	GL 52	135	220	45/40	931 85

Watch glasses

Soda-lime glass. DIN 12341.
Ground edges. Stress-reduced
to minimize risk of shattering.
Pack of 10 (size 250 mm: Pack of 1).

Ø mm	Cat. No.
40	1500 10
50	1500 15
60	1500 20
70	1500 30
80	1500 40
90	1500 45
100	1500 50
120	1500 60
125	1500 65
150	1500 70
200	1500 80
250	1500 85



Watch glasses

PTFE. Ideal for covering PTFE beakers.
Excellent chemical resistance.
Pack of 1.

Ø mm	for PTFE beakers size ml	Cat. No.
20	1	1509 00
30	5 - 10	1509 02
40	25	1509 04
50	50	1509 05
65	100	1509 07
75	150	1509 10
80	250	1509 12
100	400 - 500	1509 15
125	600 - 1000	1509 20
150	2000	1509 22



Evaporating dishes

PP. Shallow form without spout.
Pack of 1.

Capacity ml	Height mm	max. Ø mm	Cat. No.
50	25	70	455 05
170	35	105	455 10



Evaporating dishes

PFA, snap-on lid PE. Evaporating
dishes are autoclavable, easy to clean
and withstand temperatures from
-200 °C to +260 °C (The snap-on lid
is not autoclavable). Pack of 1.

Capacity ml	Cat. No.
25	458 00
50	458 02





Capacity ml	max. Ø mm	Height mm	Cat. No.
5	25	20	455 40
25	45	30	455 45
75	60	40	455 50

Evaporating dishes

PTFE. Crucible form without spout.
Excellent chemical resistance.
Pack of 1.



Capacity ml	max. Ø mm	Height mm	Cat. No.
25	40	35	456 15
50	50	40	456 17
100	65	55	456 20
150	80	40	456 21
180	80	50	456 22
250	95	45	456 23
350	100	60	456 25

Evaporating dishes

PTFE. Conical with spout.
Pack of 1.



Capacity ml	max. Ø mm	Height mm	Cat. No.
25	40	25	457 03
50	65	25	457 05
100	80	30	457 10
180	80	45	457 18
350	100	55	457 22

Crystallizing dishes

PTFE. Cylindrical without spout.
Pack of 1.



max. Ø mm	Height mm	Cat. No.
125	80	1107 05
150	90	1107 10

Mortars with pestle

Melamine formaldehyde (MF), white.
Resistant to boiling and autoclavable
(121 °C). With foot and spout.
Pack of 1.

Centrifuge tubes, ungraduated

AR-Glas® or DURAN®. Capacity approx. 15 ml. Wall thickness approx. 1.0 mm. Withstands RCF up to 3500.

Description	Glass	Ø mm	Height mm	Pack of	Cat. No.
Conical bottom, beaded rim	AR-Glas®	17	113	100	7780 12
Conical bottom, beaded rim	DURAN®	17	113	100	7780 13
Cone-pointed bottom, rimless	AR-Glas®	17	98	100	7790 12
Round bottom, rimless	AR-Glas®	17	98	200	7790 22



Centrifuge tubes, graduated

conical bottom

AR-Glas® or DURAN®. Capacity 15 ml. Graduations and inscriptions in high contrast white enamel. Pack of 10.

Graduation from - to ml approx.	Glass	Subdivision ml	Ø mm	Height mm	Wall thickness mm	RCF max.	Cat. No.
0 - 10	AR-Glas®	0.1	17	113	ca. 1.0	3500	7783 12
0 - 10	DURAN®	0.1	17	113	ca. 1.0	3500	7783 13
0 - 15	AR-Glas®	0.1	17	113	ca. 1.0	3500	7787 12
0 - 15	DURAN®	0.1	17	113	ca. 1.0	3500	7787 13



Test tubes, graduated

with spout and without stopper, or with standard ground joint neck and PP stopper

DURAN®. Graduation and inscriptions in high contrast white enamel. Wall thickness approx. 1.2 mm. Pack of 10.

Description	Capacity ml approx.	Subdivision ml	Neck size	Ø mm	Height mm	Cat. No.
With spout, without stopper	10	0.1	–	15	150	1143 08
With spout, without stopper	20	0.2	–	17	180	1143 16
With spout, without stopper	25	0.2	–	17	200	1143 21
With spout, without stopper	30	0.5	–	19	200	1143 24
Standard ground joint neck with PP stopper	10	0.1	12/21	15	165	1145 08
Standard ground joint neck with PP stopper	20	0.2	14/23	17	200	1145 16
Standard ground joint neck with PP stopper	25	0.2	14/23	17	220	1145 21
Standard ground joint neck with PP stopper	30	0.5	14/23	19	220	1145 24



Sample tubes

with screw cap

PFA-screw cap with integrated seal lip. Individually calibrated ring mark at 10 ml. Autoclavable, easy to clean, withstands temperatures from -200 °C to +260 °C. Pack of 1. (Replacement screw-cap, PFA. Pack of 1. Cat. No. 1292 52)

Capacity ml	Ø mm	Height mm	Thread GL	Cat. No.
15	22	110	25	7794 20





Funnels

plain interior

Borosilicate glass 3.3 or DURAN®. Angled at 60°, ground and fire-polished upper rim. Short stem. Pack of 1.

Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Description	Cat. No.
35	6	35	Borosilicate glass 3.3	1455 05
40	6	40	Borosilicate glass 3.3	1455 07
50	7	50	Borosilicate glass 3.3	1455 15
55	8	55	Borosilicate glass 3.3	1455 20
60	8	60	Borosilicate glass 3.3	1455 25
70	8	70	Borosilicate glass 3.3	1455 30
80	9	80	Borosilicate glass 3.3	1455 35
100	10	100	Borosilicate glass 3.3	1455 40
120	16	120	DURAN®	1455 45
150	16	150	DURAN®	1455 50
200	26	175	DURAN®	1455 60



Funnels

fluted interior

DURAN®. For rapid filtration. Angled at 60°, ground and fire-polished upper rim. Short stem. Pack of 10 (Cat. No. 1456 38; Pack of 1).

Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Cat. No.
70	8	70	1456 11
80	10	80	1456 16
100	10	100	1456 19
150	16	150	1456 31
200	26	170	1456 38

Funnels

plain interior

PP.



Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Pack of	Cat. No.
30	2	25	24	1470 00
30	5	25	24	1470 05
40	5	35	24	1470 10
50	9	43	24	1470 15
75	10	55	12	1470 20
100	13	77	12	1470 25
120	14	90	12	1470 30
150	17	95	12	1470 35

Funnels

fluted interior

PP. For rapid filtration. Angled at 60°. External flutings allow air to escape during filtration.

Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Pack of	Cat. No.
25	4	39	20	1482 05
35	5	38	20	1482 10
45	5	44	20	1482 15
65	9	63	20	1482 20
80	10	69	20	1482 25
100	11	82	1	1482 35
120	11	85	1	1482 37
150	14	115	1	1482 40
180	14	143	1	1482 45



Powder funnels

Borosilicate glass 3.3 or DURAN®. Ground and fire-polished upper rim. With short, wide stem. Pack of 1.

Upper Ø mm	Lower Ø mm	Description	Cat. No.
50	18	Borosilicate glass 3.3	1465 06
60	18	Borosilicate glass 3.3	1465 08
70	20	Borosilicate glass 3.3	1465 11
80	22	Borosilicate glass 3.3	1465 16
90	25	Borosilicate glass 3.3	1465 17
100	25	Borosilicate glass 3.3	1465 19
120	30	DURAN®	1465 23



Powder funnels

PP. With short, wide stem.

Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Pack of	Cat. No.
60	15	19	20	1480 20
80	15	23	20	1480 25
100	25	23	20	1480 30
120	30	28	1	1480 35
150	35	42	1	1480 40
180	40	48	1	1480 45



Carboy funnels

PP. Pack of 1.

Funnel outer-Ø mm	Stem outer-Ø mm	Stem length mm	Cat. No.
210	25	90	1470 40
260	30	100	1470 45
350	32	170	1470 50
400	40	150	1470 55
440 (PE-HD)	35	140	1470 60





Standard ground joint funnels

PP. Half-round body. Stem fits standard ground sockets. Ideal for filling liquids or powders into multi-neck flasks. Pack of 10 (Cat. No. 949 15; Pack of 5).

Distance to flat side mm	Stem fits socket size	Cat. No.
40	14/23	949 05
50	19/26	949 10
80	29/32	949 15

Buchner funnels

PP. Two detachable pieces facilitate cleaning. Use with suggested filter paper. Pack of 1.



Nominal size mm	Filter disk Ø mm	for filter paper Ø mm	Cat. No.
45	45	45	1485 05
55	55	55	1485 10
70	72	70	1485 15
80	82	70	1485 20
90	93	90	1485 25
110	120	110	1485 30
160	160	150	1485 35
240	240	240	1485 40

Filter disks for Buchner funnels

PE-HD 1 mm mesh. Insert between the perforated support plate of the Buchner funnel, and the filter paper. Prevents filter paper sticking. Pack of 10.



Ø mm	Cat. No.
45	1486 05
55	1486 10
70	1486 15
80	1486 20
90	1486 25
110	1486 30
160	1486 35
240	1486 40

Separating funnels

PP, high clarity for observation of contents.
With PP screw cap and special conical
PTFE stopcock with retention device.
Autoclavable (121 °C). Pack of 1.

Capacity ml	Cat. No.
125	1400 04
250	1400 05
500	1400 06
1000	1400 07



Holder for separating funnels

PP. For conical separating funnels up to
1000 ml. Easily mounted on support rods
with an outer-Ø 8-14 mm with a locking
nut. Pack of 1.



Cat. No.	1403 00
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Funnel holders

PP. To support 1 or 2 funnels with top
outer-Ø of 50 to 120 mm. Easily mounted
on support rods with an outer-Ø 8-14 mm
with a locking nut.
Pack of 5.

Description	Cat. No.
for 1 funnel	1485 00
for 2 funnels	1485 02



Filter funnel supports

PP plates with aluminum support rod. Ø x length in mm: 12.7 x 595.
To support 2 or 4 funnels with top outer Ø of 50 to 120 mm.
Adjustable funnel height. Pack of 1.

Description	Length base plate mm	Width base plate mm	Cat. No.
for 2 funnels	250	140	745 06
for 4 funnels	450	140	745 11





Filter funnels

DURAN®. Pack of 1.

Identification Code	Porosity	Capacity ml	Ø Filter disk mm	Stem outer-Ø mm	Cat. No.
3 D	3	50	35	10	4640 03
3 D	4	50	35	10	4640 04
11 D	3	75	45	10	4647 13
11 D	4	75	45	10	4647 14
17 D	3	125	60	10	4654 23
17 D	4	125	60	10	4654 24
25 D	3	500	95	22	4661 33
25 D	4	500	95	22	4661 34



Filter crucibles

DURAN®. Pack of 10.

Identification Code	Porosity	Capacity ml	Ø Filter disk mm	Cat. No.
1 D	1	30	30	4580 21
1 D	2	30	30	4580 22
1 D	3	30	30	4580 23
1 D	4	30	30	4580 24
2 D	1	50	40	4587 31
2 D	2	50	40	4587 32
2 D	3	50	40	4587 33
2 D	4	50	40	4587 34



Filter adapters

DURAN®. Suitable for filter crucibles, according to Identification Code above.
Pack of 10.

Identification Code	Upper Ø mm	Overall length mm	Cat. No.
1 D	41	125	4636 16
2 D	50	132	4637 32



Rubber sleeves

Rubber (EPDM). Suitable for filter crucibles, according to Identification Code.
Pack of 10.

Identification Code	Outer Ø mm	Cat. No.
1 D	41	4620 26
2 D	49	4622 31

Filter flasks with socket

(Buchner filter flasks)

DURAN®. DIN 12476, ISO 6556. Lateral socket for vacuum tubing with outer diameter 15-18 mm. Pack of 1.

Capacity ml	max. outer-Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
250	85	155	34.5	737 14
500	105	185	34.5	737 19
1000	135	230	45	737 24
2000	166	265	60	737 29

Filtration flasks with lateral socket for vacuum tubing do satisfy the requirements of German Equipment Safety Law!



Filter flasks

PP, translucent. With lateral nozzle (outer diameter: 10 mm). Pack of 1.

Capacity ml	max. outer-Ø mm	Height mm	Neck size	Cat. No.
250	84	140	29/32	740 14
500	107	158	34/35	740 19
1000	130	198	34/35	740 24



Rubber gaskets

Rubber (EPDM). Conical gaskets to place between filter funnel and filter flask. Pack of 10.

Upper outer-Ø mm	Lower outer-Ø mm	Lower inner-Ø mm	Cat. No.
22	11	6	4625 12
28	16	9	4626 17
35	20	14	4627 23
42	25	18	4628 27
50	32	22	4629 32
63	43	33	4630 36
71	52	42	4631 39
84	61	50	4632 43
Rubber gasket set. Pack of 1.			4625 00





Desiccators

with knob lid

DURAN®. DIN 12491. Precisely ground flat flanges. Base ring surface studded to improve stability and help prevent cracks. Interchangeable lid. Pack of 1.

Nominal size mm	Ø mm	Height mm	Cat. No.
150	215	233	650 31
200	270	298	650 38
250	320	355	650 43



Desiccators

with socket in the lid

DURAN®. DIN 12491. Precisely ground flat flanges. Base ring surface studded to improve stability and help prevent cracks. Interchangeable lid. Socket, ground joint neck size 24/29, with interchangeable stopcock. Pack of 1.

Nominal size mm	Ø mm	Height mm	Cat. No.
150	215	303	652 31
200	270	368	652 38
250	320	425	652 43



Spare parts for desiccators of DURAN®

Needle-valve stopcock for desiccators

DURAN®. Cone size 24/29. Suitable for desiccators with lid socket. PTFE spindle, aperture 0-4 mm. Lateral venting hole helps to reduce turbulence. Nozzle with outer diameter 10 mm. Pack of 1.

Cat. No.	824 15
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Lid with knob

DURAN®. Pack of 1.

Nominal size mm	Ø mm	Height mm	Cat. No.
150	215	78	656 31
200	270	93	656 38
250	320	115	656 43



Lid with socket

DURAN®. Pack of 1.

Nominal size mm	Ø mm	Height mm	Cat. No.
150	215	78	657 31
200	270	93	657 38
250	320	115	657 43

Desiccators

PC lid. PP base and desiccant tray. Venting stopper with non-return valve in lid. Seal between lid and base: polychlorobutadiene rubber (CR) O-ring, compressed by vacuum. Light-weight and easy to handle. Pack of 1.

Nominal size mm	Ø mm	Height mm	Cat. No.
150	170	195	658 05
200	235	240	658 10
250	285	300	658 15



Spare parts for desiccators of PC/PP

Sealing rings

CR. Pack of 1.

Nominal size mm	Cat. No.
150	658 20
200	658 22
250	658 24



Venting stopper

PC. Pack of 1.

Cat. No.	658 04

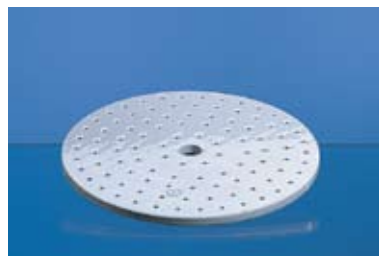


Accessories for desiccators of DURAN® or PC/PP

Desiccator plates

Porcelain or PP. For glass and plastic desiccators. Central hole approx. 20 mm diameter, small perforations approx. 5 mm diameter. Pack of 1.

Nominal size mm	Ø mm	Porcelain Cat. No.	PP Cat. No.
150	140	659 65	660 15
200	190	659 75	660 25
250	235	659 80	660 30



Porcelain



PP



Gas wash bottles, Drechsel pattern

BISTABIL. With P1 filter disc.

DURAN® glass bottle and head. DIN 12 596. With filter disc of porosity P1. Drechsel pattern heads provide optimal stability. Overall height 275 mm, standard ground joint neck size 29/32, hose nozzles with outer diameter 11 mm. Pack of 1.

Capacity ml	Cat. No.
100	782 38
250	782 48
500	782 54
1000	782 62



Gas wash bottles, Drechsel pattern

BISTABIL. Without filter disc.

DURAN® glass bottle and head. DIN 12 596. Without filter disc. Drechsel-pattern heads provide optimal stability. Overall height 275 mm, standard ground joint neck size 29/32, hose nozzles with outer diameter 11 mm. Pack of 1.

Capacity ml	Cat. No.
100	781 38
250	781 48
500	781 54
1000	781 62



Wash bottles, without head

DURAN®. Standard ground joint neck size 29/32, to DIN 12 463. Pack of 1.

Capacity ml	Neck size	Ø mm	Height mm	Description	Cat. No.
100	29/32	40	200	with base Ø 55 mm	1269 38
250	29/32	55	200	with base Ø 75 mm	1269 48
500	29/32	75	200	without base	1269 54
1000	29/32	107	200	without base	1269 62

Wash bottle head with P1 filter disk

for gas wash bottles, Drechsel pattern

DURAN®. DIN 12 596. Size 29/32. Length below top of cone 185 mm. Accommodates all bottle sizes to DIN 12 463. Filter disk outer diameter 25 mm, porosity P1. Pack of 1.

Cat. No.	782 00
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Wash bottle head without filter disk

for gas wash bottles, Drechsel pattern

DURAN®. DIN 12 596. Size 29/32. Length below top of cone 185 mm. Accommodates all bottle sizes to DIN 12 463. Tube outer diameter 8 mm. Pack of 1.

Cat. No.	781 00
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Gas wash bottles

PFA. Head with S40 thread. Frit, PTFE, with approx. 100 µm pore size for optimum gas pearling in the liquid. High-quality fluoroplastics make a wide range of applications possible. Pack of 1.

(For wash bottles, PFA, S40 thread see page 253).



Capacity ml	Ø mm	Height mm	Tubing connection Inner-Ø/outer-Ø mm	Heads Cat. No.	Gas wash bottle, cpl. Cat. No.
250	55	180	4/6	783 00	783 48
500	75	210	4/6	783 01	783 54
1000	107	249	5/8	783 02	783 62

Gas sampling tubes

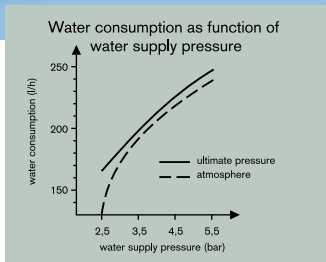
BISTABIL
(Gas collecting tubes)

DURAN®. DIN 12 473-1. With straight bore stopcocks size 3 NS/14 with retention device. One end with capillary tube (inner-diameter 2.7 mm, outer diameter 8 mm), other end with hose nozzle (outer diameter 9 mm). With marking area. Pack of 1.

Capacity ml	Cat. No.
100*	2350 10
250*	2350 20
500	2350 30

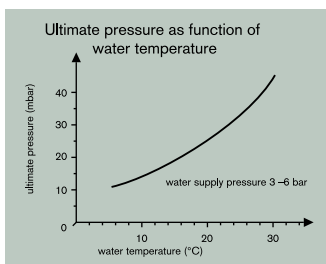
* in addition to the DIN range





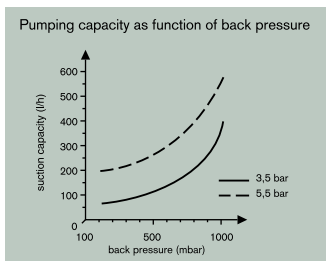
Very low water consumption

The flow configuration has been optimized, resulting in a 33 % reduction of water consumption (190 litres/h at 3.5 bar water supply pressure).



Constant ultimate pressure

The ultimate pressure of 16 mbar (water temperature: 12 °C) is reached across a wide range of water supply pressures (from 3 to 6 bar).



High suction capacity

Flow rate of approx. 400 litres/h of air (against atmospheric pressure, at a water supply pressure of 3.5 bar at 12°C water temperature).



Water jet filter pump

BISTABIL

DURAN®. Rugged design. Water faucet connection via outer thread GL 18. Suction line connection through hose nozzle diameter 11 mm. Performance characteristics at a water supply pressure of 4.5 bar (absolute) at 12 °C:

Water consumption:
approx. 340 litres/h.

Ultimate pressure: 16 mbar.

Flow rate against atmospheric pressure:
950 litres/h of air.

Pack of 1.

Cat. No. 1588 10

Water jet filter pump

PLASTIBRAND®

Pump fluid: water

Overall length: approx. 210 mm

(R 3/4" connector fitted)

Weight: approx. 33 g

(R 3/4" connector fitted)

- High chemical resistance, fluid path consists of PP, FKM and PTFE
- Operating temperature up to max. 80 °C
- Integrated non-return valve increases safety
- Simple operation and easy to clean
- Detachable vacuum connection
- Variety of supplied adapters simplify connections to most water sources. Optional reducing adapters are available.

Ordering data

Water jet filter pump includes:

sleeve nut R 3/4", reducing adapter R 1/2", and tubing connector (hose nozzle) of 10-12 mm outer diameter

Suction line connection:

Detachable hose nozzle of 6-9 mm outer diameter, with screw cap GL 14.

Pack of 1.

Cat. No. 1596 00

Accessories

Reducing adapter R 3/8".

Pack of 1.

Cat. No. 1596 65

Reducing adapter M 22 x 1 (thread forscreen tap). Pack of 1.

Cat. No. 1596 70



Water mains connection for water jet filter pump BISTABIL

Thread adapter GL 18 with polypropylene sleeve nut R 3/4" and seals (O-rings 15 x 3 mm and 10 x 3 mm) of nitrile rubber (NBR).

Pack of 1.

Cat. No. 1583 15

Tubing

Silicone (SI). Translucent. Autoclavable (121 °C).

Note: limited chemical resistance when used with concentrated acids.

Packing unit 25 meters.

inner-Ø mm	Outer-Ø mm	Wall thickness mm	Cat. No.
2	4	1	1433 52
3	5	1	1433 55
4	6	1	1433 56
4	7	1.5	1433 57
5	8	1.5	1433 58
6	9	1.5	1433 59
6	10	2	1433 60
7	10	1.5	1433 61
8	12	2	1433 62
10	15	2.5	1433 64



Spring clips

Spring steel, coated with zinc and polyethylene. Non-scratching, good chemical resistance. For wall mounting of cylindrical apparatus components, e.g., pipes, tubing, etc.

Pack of 1.

Grip Ø mm	Bore mm	Cat. No.
6.5	2.5	760 05
9.5	2.5	760 10
13	3.0	760 15
16	3.0	760 20
19	3.5	760 25
25	3.5	760 35
29	4.0	760 40
32	4.0	760 45
42	4.0	760 50
51	4.0 *	760 55

* 2 bores



Flow indicator

Styrene-acrylonitrile (SAN), transparent. Optimizes cooling water flow during distillation. This helps to decrease operating costs by reducing water consumption. Operating pressure max. 2 bar, operating temperature for SAN max. 30 °C. L x W x H in mm: 88 x 17 x 40. For tubing of inner diameter 6-11 mm.

Pack of 5.

Cat. No.	1340 80
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Tubing Connectors and Tubing Adapters

**straight**

PP, translucent. Connects tubing of different diameters. Pack of 10.

for tubing inner-Ø mm	Length mm	Cat. No.
5 - 17	110	1524 00

**straight**

PP, translucent. Pack of 10.

for tubing inner-Ø mm	Length mm	Cat. No.
3 - 5	47	152705
6 - 10	55	152710
9 - 13	57	152715

**straight**

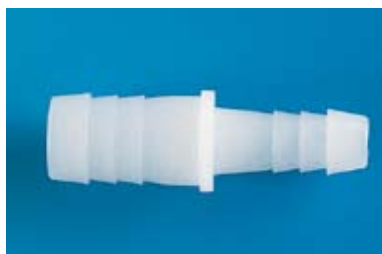
PE-HD. Pack of 10.

for tubing inner-Ø mm	Length mm	Cat. No.
10 - 11	45	152755
12 - 14	74	152760
19 - 21	74	152765
24 - 26	84	152770

**straight**

PP, grey. Pack of 20 (Cat. No. 1522 70 and 1522 75: Pack of 10).

for tubing inner-Ø mm	Length mm	Cat. No.
4 - 5	39	1522 50
5 - 7	52	1522 55
7 - 9	59	1522 60
9 - 11	59	1522 65
11 - 13	66	1522 70
13 - 15	66	1522 75

**straight (tubing adapter)**

PE-HD. Pack of 10.

for tubing inner-Ø mm	Length mm	Cat. No.
8 - 10 / 11 - 14	66	1525 05
12 - 14 / 18 - 20.5	73	1525 10

Tubing Connectors and Tubing Adapters

straight (tubing adapter)

PP, translucent.
Pack of 10.

for tubing inner-Ø mm	Length mm	Cat. No.
3 - 5 / 6 - 10	55	1526 05
3 - 5 / 9 - 13	55	1526 10
6 - 10 / 9 - 13	59	1526 15



L-shape

PP, translucent.
Pack of 20 (Cat. No. 1532 30 and 1532 35 pack of 10).

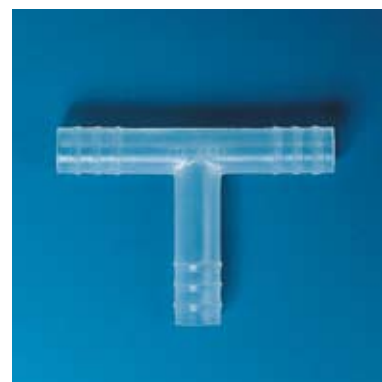
for tubing inner-Ø mm	Length mm	Cat. No.
3 - 4	15	1532 05
5	21	1532 10
6 - 7	25	1532 15
8 - 9	30	1532 20
10 - 11	36	1532 25
12 - 13	42	1532 30
14 - 15	48	1532 35



T-shape

PP, translucent. Length 1 = Length of straight-through tube, Length 2 = Length of side arm including Ø of straight-through tube.
Pack of 20 (Cat. No. 1528 20 and 1528 25; Pack of 10).

for tubing inner-Ø mm	Length 1 mm	Length 2 mm	Cat. No.
3 - 4	20	15	1528 00
4 - 5	30	23	1528 03
6 - 7	40	31	1528 05
8 - 9	55	39	1528 10
10 - 11	69	47	1528 15
12 - 13	79	53	1528 20
14 - 15	89	60	1528 25



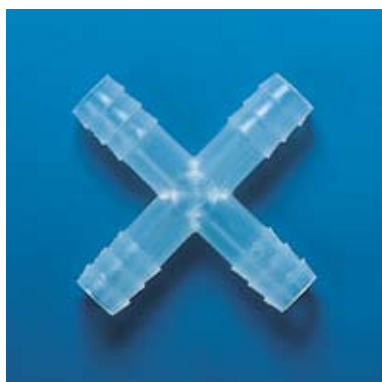
Y-shape

PP, transparent. Length1 = overall length, length 2 = distance between the two arms from one outer edge to the other.
Pack of 20 (Cat. No. 1529 15 and 1529 20; Pack of 10).

for tubing inner-Ø mm	Length 1 mm	Length 2 mm	Cat. No.
3	24	14	1529 00
4 - 5	35	21	1529 03
6 - 7	54	34	1529 05
8 - 9	64	40	1529 07
10 - 11	74	47	1529 10
12 - 13	87	53	1529 15
14 - 15	98	60	1529 20



Tubing Connectors



X-shape

PP, translucent.
Pack of 20 (Cat. No. 1531 30 and 1531 35: Pack of 10).

for tubing inner-Ø mm	Length mm	Cat. No.
2 - 3	26	1531 05
5	35	1531 10
6 - 7	42	1531 15
9	50	1531 20
10 - 11	62	1531 25
12 - 13	74	1531 30
14 - 15	84	1531 35



Y-shape (120°)

PP, grey. Three arms at equal angles of 120°.
Pack of 20 (Cat. No. 1530 25 and 1530 30: Pack of 10).

for tubing inner-Ø mm	Length mm	Cat. No.
4 - 5	26	1530 05
6 - 7	35	1530 10
8 - 9	42	1530 15
10 - 11	50	1530 20
12 - 13	62	1530 25
13 - 15	74	1530 30



Plug-in coupling

PP. The two parts fit together with a cone-and-socket joint. Not suitable for pressure applications.
Pack of 25.

for tubing inner-Ø mm	Length mm	Cat. No.
6 - 9	68	1523 00



Non-return valve

PE-HD. For tubing of inner diameter 6-9 mm. Length 80 mm. FKM valve disk not suitable for pressure applications. Pack of 10.

Cat. No.	1340 02
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Straight-bore stopcocks

with nozzles

PTFE, valve lever PP.
Outstanding chemical resistance.
Two integrated hose nozzles.
Pack of 1.

for tubing inner-Ø mm	Bore mm	Cat. No.
3	2	886 10
4	2	886 15
5	3	886 20
6	3	886 25
7	4	886 30
8	4	886 35
9	5	886 40



T-bore stopcocks

with nozzles

PTFE, valve lever PP.
Outstanding chemical resistance.
Three integrated hose nozzles.
Pack of 1.

for tubing inner-Ø mm	T-bore mm	Cat. No.
3	2	886 50
4	2	886 55
5	3	886 60
6	3	886 65
7	4	886 70
8	4	886 75
9	5	886 80



Straight-bore stopcocks

with nozzles

PE-HD. For operation under ambient pressure only. Two integrated hose nozzles.
Pack of 1.

for tubing inner-Ø mm	Bore mm	Length mm	Cat. No.
12.5	9	97	885 05
9.5	7	80	885 10





Conical joint clips

POM. Will not scratch glass surfaces. Excellent resilience and stability. Outstanding chemical resistance. Operating temperature up to 150 °C. Pack of 1.

For size	Color	Cat. No.
10/19	turquoise	556 38
12/21	violet	556 39
14/23	yellow	556 40
19/26	blue	556 42
24/29	green	556 44
29/32	red	556 46
34/35	orange	556 47
45/40	brown	556 49



Conical joint clips

Coated steel spring

PTFE. Will not scratch glass surfaces. Outstanding chemical resistance. Excellent resilience and stability. Operating temperature up to 200 °C. Pack of 1.

For size	Cat. No.
10/19	555 60
12/21	555 62
14/23	555 64
19/26	555 69
24/29	555 74
29/32	555 79
34/35	555 84
45/40	555 95



Stopcock grease, silicone-free

Ideal for lubricating burette stopcocks. Easy to remove, e.g., with Mucosol®. Good acid- and base-resistance. Operating temperature range -40 to +320 °C. Tube of 60 g. Pack of 1.

Cat. No.	616 10
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Silicone paste

Low viscosity. Operating temperature from -40 to +160 °C. For greasing ground joints. Tube of 50 g. Pack of 1.

Cat. No.	616 05
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Ground joint sleeves

PTFE. Greaseless seal will not contaminate sample. Outstanding chemical resistance at operating temperatures from -200 to +260 °C.

Thin walled sleeves (0.05 mm thick) fit snugly without adding bulk. Joints fit perfectly, without a protruding rim simplifying use of joint clips. Wide range of applications, including vacuum to 0.1 mbar, e.g., for rotary evaporators. Pack of 10.

For size	Cat. No.
7/16	514 16
10/19	514 17
12/21	514 18
14/23	514 19
19/26	514 20
24/29	514 21
29/32	514 22
34/35	514 23
45/40	514 24
50/42	514 25
55/44	514 26
60/46	514 27
40/38	514 30

Sockets

with grip collar

PTFE. Greaseless seal will not contaminate sample. Outstanding chemical resistance at operating temperatures from -200 to +260 °C. Sturdy design for permanent use. With grip collar and sealing rings for excellent tightness. Low leakage rate:

$$Q < 1 \cdot 10^{-4} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$$

Pack of 1.

Size	Cat. No.
10/19	514 63
14/23	514 64
19/26	514 65
24/29	514 66
29/32	514 67
34/35	514 68
45/40	514 69
60/46	514 70



Rubber stoppers

Natural rubber (NR), red.

upper-Ø mm	lower-Ø mm	Height mm	Pack of	Cat. No.
9	5	20	25	1443 80
12	8	20	25	1443 82
14	11	20	25	1443 84
16	12	20	25	1443 85
18	14	20	25	1443 86
22	17	25	25	1443 88
24	18	30	25	1443 89
27	21	30	25	1443 90
32	26	30	25	1443 91
35	29	30	5	1443 93
38	31	35	5	1443 94
44	36	40	5	1443 95
49	41	40	5	1443 96
55	47	40	1	1443 97
60	50	45	1	1443 98
65	56	45	1	1443 99



Silicone stoppers

SI, natural-colored.

upper-Ø mm	lower-Ø mm	Height mm	Pack of	Cat. No.
9	5	20	10	144305
12	8	20	10	144310
14	11	20	10	144315
16	12	20	10	144320
18	14	20	10	144325
22	17	25	10	144330
24	18	30	10	144335
27	21	30	10	144340
32	26	30	10	144345
35	29	30	10	144350
38	31	35	5	144355
44	36	40	5	144360
49	41	40	5	144365
55	47	40	5	144370
75	64	55	5	144375





Conical ground joint stoppers

PP. Hollow, with sealing ribs and square grip. Autoclavable (121 °C).
Pack of 1.

Size	Cat. No.
7/16	1444 05
10/19	1444 10
12/21	1444 15
14/23	1444 20
19/26	1444 25
24/29	1444 30
29/32	1444 35
34/35*	1444 40
45/40*	1444 45
60/46*	1444 46

* PE-LD, with octagonal grip



Conical ground joint stoppers

PTFE. Solid, with sealing ribs and ergonomically designed grip. Resistant to temperatures up to 270 °C.
Pack of 1.

Size	Cat. No.
10/19	1444 48
14/23	1444 50
19/26	1444 53
24/29	1444 55
29/32	1444 58
34/35	1444 59



Conical ground joint stoppers

BISTABIL

DURAN®. DIN 12 252.
Hollow, with drip tip and hexagonal grip.
Pack of 1.

Size	Cat. No.
7/16	1446 05
10/19	1446 10
12/21	1446 15
14/23	1446 20
19/26	1446 25
24/29	1446 30
29/32	1446 35
34/35	1446 40
45/40	1446 45



Conical ground joint stoppers

Borosilicate glass. DIN 12 252.
Solid or semi-hollow, with octagonal grip.
Pack of 1.

Size	Description	Cat. No.
12/21	solid	1445 15
14/23	solid	1445 20
19/26	solid	1445 25
24/29	solid	1445 30
29/32	semi-hollow	1445 35
34/35	semi-hollow	1445 40
45/40	semi-hollow	1445 45

Stirrers

Good operating characteristics due to steel-core shafts. Resistant to breakage. PP propeller greatly reduces scratching if stirrer inadvertently hits vessel wall. Pack of 1.

Propeller, PP. Shaft PE-coated.

Stirrer shaft Ø mm	Stirrer shaft length mm	Rotor Ø mm	Cat. No
6	380	45	1356 00



Propeller, PTFE

Stirrer shaft Ø mm	Stirrer shaft length mm	Rotor Ø mm	Cat. No
6	400	40	1342 90
6	500	40	1342 91
9.5	550	60	1342 92
9.5	650	60	1342 93



2 moveable paddles, PTFE

Stirrer shaft Ø mm	Stirrer shaft length mm	Rotor Ø mm	Cat. No
6	400	50	1342 86
6	500	50	1342 87
9.5	550	70	1342 88
9.5	650	70	1342 89



Anchor, PTFE

Stirrer shaft Ø mm	Stirrer shaft length mm	Rotor Ø mm	Cat. No
6	500	75	1342 96
9.5	550	100	1342 97
9.5	650	140	1343 00



with interchangeable blades
(Please order shafts and blades separately!)

Description	Ø mm	Length mm	Height mm	Cat. No
Shaft	6	400	–	1341 26
Shaft	9.5	550	–	1341 28
Shaft	9.5	650	–	1341 29
Blade with cut ends	3	52	14	1342 75
Blade with cut ends	3	76	19	1342 76
Blades with pointed ends	3	65	25	1342 80
Blades with pointed ends	3	75	25	1342 81
Blades with pointed ends	3	105	25	1342 82



Magnetic Stirring Bars, PTFE

PTFE. High magnetic strength and long life due to Alnico V magnetic cores, fully encapsulated with high-grade PTFE. Strict quality control ensures the magnetic strength, position of the magnetic core, surface quality, crack resistance, and uniform thickness of the PTFE coating. Maximum operating temperature 270 °C.

PLASTIBRAND® provides the right magnetic stirring bar for virtually any application. Rough vessel surfaces or abrasive sediments can quickly deteriorate the PTFE coating and thus shorten the life of stirring bars. This can be prevented by using reduced contact surface (e.g., with pivot ring) stirring bars.

Storing conditions:

To prevent demagnetization stirring bars using Alnico V magnetic cores should not be stored in a random mass but should be kept "paired" and should not be dropped on hard or steel surfaces.



Cylindrical

PTFE. Round, smooth surface, for universal applications. Pack of 10.

Length mm	Bar Ø mm	Cat. No.
2.5	2.5	1371 00
3.5	3.5	1371 01
5	2	1371 02
6	3	1371 03
8	3	1371 04
12	4.5	1371 05
7	2	1371 06
8	1.7	1371 07
10	3	1371 08
13	3	1371 09
15	4.5	1371 10
15	1.7	1371 11
10	6	1371 13
15	6	1371 14
20	6	1371 15
25	6	1371 20
30	6	1371 25
35	6	1371 27
40	8	1371 30
45	8	1371 32
50	8	1371 35
57*	27	1371 37
60	9	1371 40
70	9	1371 45
80	9	1371 50
108*	27	1371 55
159*	27	1371 60

* flattened sides, pack of 1.



Cylindrical, with pivot ring

PTFE. For vessels with slightly uneven bottoms. The pivot ring reduces the contact surface and enables the stirrer to adopt the optimum stirring position. Pack of 10.

Length mm	Bar Ø mm	Ring Ø mm	Cat. No.
8	3	4	1374 04
12	4.5	6	1374 05
15	4.5	6	1374 10
20	6	8	1374 15
25	6	7	1374 20
30	6	7.5	1374 25
35	6	8	1374 27
40	8	8.5	1374 30
45	8	10	1374 32
50	8.5	11	1374 35
60	8.5	11	1374 37
70	8.5	10	1374 45

Cylindrical, conical

PTFE. Round, smooth surface. Diameter increases toward the center to reduce the contact surface. Pack of 10.

Length mm	Bar Ø mm	Cat. No.
10	4	1371 68
15	5	1371 70
20	7	1371 75
25	8	1371 78
30	8	1371 80
40	8	1371 85
50	8	1371 90
60	8	1371 95
70	10	1371 97
80	10	1371 99

**Triangular**

PTFE. Wedge-shaped. Ideal for dissolving solids and mixing of sediments due to scraping action. Angular surface creates high turbulence even at low speeds. Pack of 10.

Length mm	Bar Ø mm	Cat. No.
12	6	1378 05
20	8	1378 07
25	8	1378 10
25	14	1378 12
35	10	1378 15
40	14	1378 17
50	12	1378 20
55	14	1378 22
80	14	1378 26

**Triangular, with pivot rim**

PTFE. Angular surface creates high turbulence even at low speeds. For vessels with slightly uneven bottoms. The pivot rim reduces the contact surface and enables the stirrer to adopt the optimum position. Pack of 10.

Length mm	Height mm	Cat. No.
12	6	1378 40
25	8	1378 42
35	10	1378 44
50	12	1378 46
80	18	1378 48

**Octagonal, with pivot ring**

PTFE. Angular surface creates high turbulence even at low speeds. For vessels with slightly uneven bottoms. The pivot ring reduces the contact surface and enables the stirrer to adopt the optimum position. Pack of 10.

Length mm	Bar Ø mm	Ring Ø mm	Cat. No.
13	8	10	1376 07
15	8	9.5	1376 08
25	8	9.5	1376 10
25	10	11	1376 12
38	8	9.5	1376 15
38	13	14.5	1376 16
38	10	11	1376 17
51	8	9.5	1376 18
51	10	11	1376 20
64	10	11	1376 22
75	12	14.5	1376 25



Magnetic Stirring Bars, PTFE

Double-ended

PTFE. Excellent centering, small contact surface and high turbulence even at low speeds. Pack of 10.

Length mm	Bar Ø mm	Ends Ø mm	Cat. No.
37	8	20	1379 30
54	8	20	1379 35



Oval

PTFE. Ideal for vessels with round bottom, e.g., round-bottom flasks. Pack of 10.

Length mm	max. Ø mm	Cat. No.
10	5	1373 00
15	6	1373 01
20	10	1373 02
25	12	1373 05
32	15	1373 07
34	15	1373 10
40	20	1373 12
50	20	1373 15
65	20	1373 20
70	20	1373 25



Crosshead

PTFE. Steady spinning position. Excellent stirring action. Pack of 10.

Ø mm	Height mm	Cat. No.
10	5	1376 30
20	9	1376 32
25	10	1376 34
30	12	1376 36
38	15	1376 38



Disc

PTFE. Convex shape for good centering. Particularly effective stirring action. Pack of 10.

Ø mm	Height mm	Cat. No.
9	6*	1379 26
10	6	1379 27
20	10	1379 28
30	12	1379 29

* Also suitable for cuvettes size 10 x 10 mm.



Magnetic Stirring Bars, PTFE

Round, with crosshead

PTFE. Specialshape for small vessels.
Particularly effective stirring action.
Pack of 10.

Ø mm	Height mm	Cat. No.
10	8	1379 05
14	10	1379 10
17	13	1379 15
22	15	1379 17
30	12	1379 19



Spherical

PTFE. Ideal for test tubes or for
eccentric stirring motion. Pack of 1.

Ø mm	Cat. No.
12	1379 50



Magnetic stirring bar retrievers

PP. Magnetic core fully sealed.
Pack of 1.

Length mm	Ø mm	Cat. No.
300	10	1377 50
450	10	1377 55



Magnetic stirring bar retrievers

PTFE. Magnetic core fully sealed.
Pack of 1.

Length mm	Ø mm	Cat. No.
150	8	1377 00
250	8	1377 10
350	8	1377 20



Stirring rods

AR-Glas®. Glass tube, fused and sealed at both ends. Pack of 50.



Length mm	Ø mm	Cat. No.
200	5	1358 05
200	6	1358 10
250	6	1358 15
250	8	1358 20
300	8	1358 25

Stirring rods

PTFE. With spatulate ends. Pack of 1.



Length mm	Bar Ø mm	Cat. No.
150	8	1362 10
200	8	1362 15
250	8	1362 20
300	8	1362 25

Stirring rods with steel core

PTFE coated steel core. Can be bent as required; the shape is permanently retained. Round ends. Pack of 1.



Length mm	Bar Ø mm	Cat. No.
100	6	1363 05
150	6	1363 10
200	6	1363 15
250	6	1363 20
300	6	1363 25
350	6	1363 30
400	6	1363 35

Spatulas

Impact-resistant PS. Available with double spatulate ends or a spatulate and spoon combination. Pack of 10.



Length mm	Description	Cat. No.
150	Double spatula	1398 10
180	Double spatula	1398 15
180	Spatula / spoon	1398 17
210	Spatula / spoon	1398 20

Spatula with steel core

PE-HD coated steel core. Two differently shaped spatulate ends (approx. 16 mm wide). Pack of 5.



Length mm	Ø mm	Cat. No.
260	7	1361 00

Spatula

PP. Two differently shaped spatulate ends (approx. 15 mm wide). Pack of 10.



Length mm	Ø mm	Cat. No.
245	6	1361 10

Forceps

PMP. Pointed ends. Autoclavable (121 °C).
Pack of 10.

Length mm	Cat. No.
115	1128 05
145	1128 10



Forceps

POM, glass-fiber reinforced. Round ends.
Pack of 5.

Length mm	Cat. No.
250	1130 20



Forceps

PTFE. Pointed ends. Outstanding chemical
and thermal resistance. Pack of 1.

Length mm	Cat. No.
100	1131 05
150	1131 10
200	1131 15



Forceps

PTFE. Rectangular ends. Outstanding
chemical and thermal resistance.
Pack of 1.

Length mm	Cat. No.
100	1131 25
150	1131 30
200	1131 35



Scoops

PP, white. 2 to 100 ml: Pack of 12;
250 to 1000 ml: Pack of 6.

Capacity ml	Length mm	Cat. No.
2	60	1391 02
5	80	1391 03
10	100	1391 05
25	135	1391 10
50	160	1391 15
100	200	1391 20
250	260	1391 25
500	315	1391 30
1000	385	1391 35



Scoops

PE, natural-colored. Pack of 6.

Capacity ml	Length mm	Cat. No.
500	350	1390 35
1000	400	1390 40





Weighing dishes, square shape

Impact-resistant PS, antistatic. Light and flat design. Ideal for weighing. Wall thickness approx. 0.2 mm. Pack of 500.

Capacity ml	Length mm	Width mm	Height mm	Cat. No.
7	45	45	7	1555 40
100	84	84	24	1555 42
250	140	140	21	1555 44



Weighing dishes, diamond shape

Impact-resistant PS, antistatic. Light and flat design. Ideal for weighing. Wall thickness approx. 0.2 mm. Pack of 500.

Capacity ml	Length mm	Width mm	Height mm	Cat. No.
25	70	45	12	1555 46
30	80	56	14	1555 48
100	120	90	17	1555 50



Jars with screw cap

PE-LD. Thick-walled, slightly conical. Screw cap with sealing cone. Pack of 10.

Capacity ml	max. Ø mm	Height mm	Cat. No.
5	23	34	619 50
10	23	52	619 55
30	37	53	619 60
60	37	92	619 65
90	57	62	619 70
180	57	108	619 75



Sample jars with screw cap

PFA. For sampling, transport and storage. PFA screw cap with integrated seal lip. Autoclavable, easy to clean, withstands temperatures from -200 °C to +260 °C. Pack of 1.

Capacity ml	Height mm	Ø mm	Thread	Cat. No.
30	54	38	GL 40	620 05
60	90	38	GL 40	620 10
90	62	54	GL 56	620 15
180	112	54	GL 56	620 20

Thread	Cat. No.
GL 40	1292 54
GL 56	1292 56

Replacement screw caps for PFA sample jars

PFA. Pack of 1.

Laboratory bottles

DURAN®. Threaded to DIN ISO 4796. Studded base for stability and abrasion resistance. Graduated, with marking area. Screw cap and pouring ring PP. Autoclavable (121 °C). Pack of 10 (5000 ml to 20000 ml: Pack of 1).

Capacity ml	Thread	Ø mm	Height mm	Cat. No.
25*	GL 25	36	70	1225 20
50	GL 32	46	87	1225 28
100	GL 45	56	100	1225 38
250	GL 45	70	138	1225 48
500	GL 45	86	176	1225 54
1000	GL 45	101	225	1225 62
2000	GL 45	136	262	1225 64
5000	GL 45	186	335	1225 70
10000	GL 45	234	410	1225 74
20000	GL 45	300	505	1225 78

* integral glass ring, therefore without additional pouring ring

Thread	Screw Cap Cat. No.	Pouring ring Cat. No.
GL 25	1226 20	-
GL 32	1226 28	1226 62
GL 45	1226 38	1226 64

Spare parts for laboratory bottles

PP. Pack of 10.



General Laboratory

Threaded bottles

Soda-lime glass (amber). Screw cap PP, pouring ring PE-LD. Space-saving square base. The bottles are available ethylene-acrylate coated or uncoated. Pack of 1.

Synthetic-coating for better protection

The ethylene-acrylate coating envelops the glass bottle like a protective skin. Should the bottle break, the splintering hazards are reduced considerably. The maximum operating temperature for coated bottles is 80 °C.

To preserve the coating, do not clean at temperatures exceeding 60 °C.

Capacity ml	Width mm	Height mm	Thread	coated Cat. No.	uncoated Cat. No.
100	50	125	GL 32	7040 02	7040 12
250	65	160	GL 32	7040 04	7040 14
500	80	195	GL 32	7040 06	7040 16
1000	95	230	GL 45	7040 08	7040 18
2500*	140	300	GL 45	7040 10	7040 20

* cylindrical shape





Conical-shoulder bottles, narrow-mouth

PP. Standard ground joint and interchangeable stoppers (PP, square). 5000 ml size with additional carrying handle. 10000 ml size with two carrying handles.

Capacity ml	Neck size	Ø mm	Height mm	Pack of	Cat. No.
100	14/23	52	106	10	1298 38
250	19/26	70	136	10	1298 48
500	24/29	76	172	10	1298 54
1000	29/32	106	209	10	1298 62
2000	29/32	131	255	6	1298 64
5000*	GL 45	175	325	1	1298 70
10000*	GL 63	222	394	1	1298 74

* with screw cap



Conical-shoulder bottles, wide-mouth

PP. Standard ground joint and interchangeable stoppers (PE, octagonal).

Capacity ml	Neck size	Ø mm	Height mm	Pack of	Cat. No.
100	29/32	52	106	10	1299 38
250	34/35	70	136	10	1299 48
500	45/40	76	172	10	1299 54
1000	60/46	106	209	10	1299 62
2000	60/46	131	255	6	1299 64



Narrow-mouth bottles

PP, translucent. Sturdy, high-quality bottle with sealing cone in the screw cap. Autoclavable (121 °C).

Pack of 10 (1000 ml and 2000 ml: Pack of 5).

Capacity ml	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
30	32	67	16	1285 20
60	40	79	16	1285 28
125	50	103	21	1285 38
150	50	117	21	1285 42
250	60	140	21	1285 48
500	75	160	21	1285 54
1000	90	200	21	1285 62
2000	120	237	34	1285 64

Wide-mouth bottles

PP, translucent. Sturdy, high-quality bottle with sealing cone in the screw cap.
Autoclavable (121 °C).

Pack of 10 (1000 ml and 2000 ml: Pack of 5).

Capacity ml	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
60	40	82	26	1286 28
150	50	105	26	1286 42
250	60	141	34	1286 48
500	75	161	44	1286 54
1000	90	207	53	1286 62
2000	120	243	53	1286 64



Narrow-mouth bottles

PE-LD, flexible, translucent. Economical multipurpose bottle.

With or without screw cap.

Capacity ml	Ø mm	Height mm	Thread	Pack of	with cap Cat. No.	without cap Cat. No.
10	26	50	GL 14	100	1294 08	1290 08
20	31	58	GL 14	100	1294 16	1290 16
30	34	66	GL 14	100	1294 24	1290 24
50	39	85	GL 18	100	1294 28	1290 28
100	45	106	GL 18	50	1294 38	1290 38
250	59	140	GL 25	50	1294 48	1290 48
500	75	180	GL 25	50	1294 54	1290 54
1000	94	212	GL 28	25	1294 62	1290 62
2000	117	264	GL 28	25	1294 64	1290 64



Thread	Pack of	Cat. No.
GL 14	100	1292 00
GL 18	50	1292 02
GL 25	50	1292 04
GL 28	25	1292 06

Screw caps for narrow-mouth bottle, PE-LD

Narrow-mouth bottles, amber

PE-LD, opaque. For storage of light-sensitive substances.

With screw cap. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread	Cat. No.
50	39	85	GL 18	1302 28
100	45	106	GL 18	1302 38
250	59	140	GL 25	1302 48
500	75	180	GL 25	1302 54
1000	94	212	GL 28	1302 62
2000	117	264	GL 28	1302 64





Wide-mouth bottles

PE-LD, flexible, translucent. With or without screw cap.

Capacity ml	Ø mm	Height mm	Thread	Pack of	with cap Cat. No.	without cap Cat. No.
50	38	80	GL 32	100	1296 28	1293 28
100	48	94	GL 32	50	1296 38	1293 38
250	62	126	GL 40	50	1296 48	1293 48
500	76	155	GL 50	50	1296 54	1293 54
1000	93	208	GL 65	25	1296 62	1293 62
2000	120	246	GL 65	25	1296 64	1293 64

Thread	Pack of	Cat. No.
GL 32	25	1292 08
GL 40	25	1292 10
GL 50	25	1292 12
GL 65	25	1292 14

Screw caps for wide-mouth bottle, PE-LD



Wide-mouth square bottles

PE-HD, translucent. Screw cap with sealing cone, PP, blue, with cadmium-free pigments. Tamper-proof closure with press-off retaining ring. Space-saving square base. Pack of 1.

Capacity ml	Length mm	Width mm	Height mm	Thread	Cat. No.
100	45	45	101	GL 32	1304 12
250	60	60	127	GL 45	1304 14
500	75	75	161	GL 54	1304 18
1000	85	85	210	GL 54	1304 22
1500	111	111	209	GL 80	1304 24
2500	122	122	258	GL 80	1304 26
4000	142	142	294	GL 80	1304 28

Thread	Cat. No.
GL 32	1303 20
GL 45	1303 22
GL 54	1303 24
GL 80	1303 26

Replacement screw caps for wide-mouth bottles

PP. Pack of 1.



Wide-mouth bottles

PTFE. Outstanding chemical and thermal resistance. Sturdy, strong-walled design. With screw cap. Pack of 1.

Capacity ml	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
5	22	35	10	1305 05
10	26	50	12	1305 08
25	33	61	19	1305 20
50	43	76	25	1305 28
100	52	88	35	1305 38
150	60	90	35	1305 44
250	67	120	42	1305 48
500	80	150	52	1305 54
1000	100	185	57	1305 62
2000	120	240	60	1305 64

Wide-mouth bottles

PFA. High-quality bottles, specially designed for long-term storage of solvents and standards (trace analysis). PFA screw cap with integrated seal lip and buttress thread. Autoclavable, easy to clean, temperature resistant from -200 °C to +260 °C. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread	Cat. No.
250	61	150	S 40	1287 48
500	76	179	S 40	1287 54
1000	96	217	S 40	1287 62
2000	130	245	S 40	1287 64
5000	175	320	S 40	1287 70

Thread	Cat. No.
S 40	1292 62

Replacement screw cap for wide-mouth PFA bottles

PFA. Pack of 1.



Narrow-mouth bottles

PFA. High-quality bottles, specially designed for long-term storage of solvents and standards (trace analysis). PFA screw cap with integrated seal lip and buttress thread. Autoclavable, easy to clean, temperature resistant from -200 °C to +260 °C. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread	Cat. No.
50	37	86	S 28	1289 28
100	45	120	S 28	1289 38
250	61	160	S 28	1289 48
500	76	190	S 28	1289 54
1000	96	240	S 28	1289 62

Thread	Cat. No.
S 28	1292 60

Replacement screw cap for narrow-mouth PFA bottles

PFA. Pack of 1.



Narrow-mouth bottles

Technical quality PFA, ETFE screw caps. These bottles include components made of reprocessed PFA material from our production process. Physical properties and chemical resistance equivalent to highly-pure PFA. Pack of 1.

Capacity ml	Ø mm	Height mm	Thread	Cat. No.
50	37	90	GL 18	1304 80
100	45	114	GL 18	1304 82
250	61	157	GL 25	1304 84
500	76	189	GL 25	1304 86
1000	96	233	GL 32	1304 88

Thread	Cat. No.
GL 18	1292 70
GL 25	1292 72
GL 32	1292 74

Replacement screw caps for narrow-mouth bottles, technical quality PFA

ETFE. Pack of 1.





Wash bottles

without venting valve

PE-LD, flexible. Wide-mouth. Capacity 250 ml and 500 ml. High-quality wash bottles with integrated wash stream and sealing cone closure. Large opening for convenient filling. Label with designation of contents and general safety statements in English (with CAS numbers and NFPA codes) and German (with CAS numbers). Pack of 5.

With venting valve (metal ball)

for distilled water and organic solvents only; to avoid dripping caused by overpressure

Name of solvent	Color stopper	without venting valve		with venting valve	
		250 ml Cat. No.	500 ml Cat. No.	250 ml Cat. No.	500 ml Cat. No.
Dist. water	white	1440 78	1440 84	1440 18	1440 24
Acetone	red	1440 79	1440 85	1440 19	1440 25
Methanol	green	1440 80	1440 86	1440 20	1440 26
Isopropanol	blue	1440 81	1440 87	1440 21	1440 27
Ethanol	orange	1440 82	1440 88	1440 22	1440 28
- none -	yellow	1440 83	1440 89	-	-



Wash bottles

with interchangeable wash head

PE-LD, flexible. Detachable threaded wash head. Adjustable height delivery tube.

Pack of 50 (1000 ml: Pack of 25).

Wash heads

Thread	Pack of	Cat. No.
GL 18	50	1292 20
GL 25	50	1292 22
GL 28	25	1292 24

Capacity ml	Ø mm	Total height mm	Thread	Cat. No.
100	45	196	GL 18	1441 38
250	59	240	GL 25	1441 48
500	75	279	GL 25	1441 54
1000	94	322	GL 28	1441 62



Narrow-mouth wash bottles

Technical quality PFA, ETFE screw caps, FEP wash elements. These bottles include components made of reprocessed PFA material from our production process. The tip opening can be enlarged by cutting. High temperature and chemical resistance.

Pack of 1.

Capacity ml	Ø mm	Height mm	Thread	Cat. No.
250	61	157	GL 25	1438 48
500	76	189	GL 25	1438 54
1000	96	233	GL 32	1438 62

Thread	Cat. No.
GL 25 - with FEP delivery tube	1292 73
GL 32 - with FEP delivery tube	1292 75

Replacement Wash Heads

ETFE. Pack of 1.

Dropping bottles with pipette

Soda-lime glass. The interchangeable ground joint stopper has an integrated dropping pipette with rubber cap. Pack of 1.

Capacity ml	Ø mm	Total height mm	Description	Cat. No.
50	45	130	Clear glass	1246 33
100	55	150	Clear glass	1246 39
50	45	130	Amber glass	1245 29
100	55	150	Amber glass	1245 39

Rubber caps

Natural rubber (NR). Fitting all sizes.
Pack of 100.

Cat. No.	1247 00
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Dropping bottles

PE-LD, flexible. Detachable threaded cap with dropper nozzle and attached spout cap.

Capacity ml	Ø mm	Total height mm	Thread	Pack of	Cat. No.
20	31	88	GL 14	100	1252 16
30	34	96	GL 14	100	1252 24
50	39	115	GL 18	100	1252 28
100	45	136	GL 18	50	1252 38
250	59	170	GL 25	50	1252 48
500	75	209	GL 25	50	1252 54
1000	94	240	GL 28	25	1252 62

Caps with dropper nozzle, PE-LD

Thread	Pack of	Cat. No.
GL 14	100	1292 30
GL 18	50	1292 32
GL 25	50	1292 34
GL 28	25	1292 36

Dropping bottles

PTFE, flexible. Outstanding chemical resistance. Dropper nozzle with screw cap.
Pack of 1.

Capacity ml	Ø mm	Height mm	Cat. No.
25	33	93	1253 16
50	43	100	1253 28





Atomizers

PE-HD. By turning the nozzle, delivery can be varied from a fine spray to a solid stream. Pack of 5.

Capacity ml	Cat. No.
400	1441 80
850	1441 90



Aspirator bottles, with stopcock

PE-HD. With screw cap and plastic carrying handle (25 and 50 l sizes with two handles). With PP stopcock, 3/4" connection. Pack of 1.

Capacity l	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
5	165	335	45	1311 70
10	210	420	54	1311 74
25	275	540	54	1311 84
50	365	600	54	1311 90

Spare stopcock

Fits all sizes. With PP adapter and 2 FKM seals. Pack of 1

Cat. No.	
	1311 00



Storage bottles

Narrow mouth

PE-HD. Narrow mouth. With screw cap and carrying handle (25 and 50 l sizes with two handles). Pack of 1.

Capacity l	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
5	165	335	45	1308 70
10	210	420	54	1308 74
25	275	540	54	1309 84
50	365	600	54	1309 90

Storage bottles

Wide mouth

PE-HD. With screw cap and carrying handle. Pack of 1.

Capacity l	Ø mm	Height mm	Neck inner-Ø mm	Cat. No.
5	165	320	85	1309 70
10	210	395	120	1309 74



Jerry cans

PE-HD. With screw cap and threaded pourer.
Pack of 1.

Capacity l	Length mm	Width mm	Height mm	Cat. No.
5	260	130	260	1316 60
10	260	140	415	1316 62
20	330	165	470	1316 64



Buckets

PE-HD. With or without push-on lid. With graduation and handle. Without spout.
Pack of 1.
(Please order push-on lid separately!)

Capacity l	Height mm	Cat. No.
5	240	71772
10	300	71774

Push-on lids for buckets PE-LD

PE-LD. Pack of 1.

For bucket l	Cat. No.
5	717 71
10	717 76



Buckets

PP. With spout, reinforced rim and handle.
Pack of 1.

Capacity l	Height mm	Cat. No.
12	300	723 76
15	340	723 78



Trays (photographic trays)

PP, white. Ribbed bottom improves stability, reinforced rim, slightly sloping walls. Stackable. Pack of 1.



Length mm	Width mm	Height mm	Cat. No.
225	180	45	1566 40
300	240	70	1566 42
370	310	75	1566 44
510	410	120	1566 46
625	530	140	1566 48
840	645	160	1566 50



Tidy tray

PVC. Designed for use as utility trays or drawer organizers. Ideal for storing magnetic stirring bars, etc. Pack of 1.

Compartments	Length mm	Width mm	Height mm	Cat. No.
5	402	302	60	7685 05
12	402	302	60	7685 10



Ice bucket

Durable, rigid polyurethane foam. For bench-top cold storage. Excellent insulating properties. Sturdy, octagonal design for improved stability. Tapered side with molded handles and flat lid for easy handling and storage. Suitable for chemical disinfection. Operating temperature -196 °C to +95 °C. Pack of 1.

Capacity l	Length mm	Width mm	Height mm	Cat. No.
4.5	330	280	180	1561 00

Pipette rinsing systems

Trouble-free and gentle cleaning of pipettes with repetitive siphon rinsing. Water supply connection via hose nozzle, outer-Ø 12 mm. The complete cleaning system consists of a rinsing apparatus, soaking jar and pipette basket. Please order each component separately.

Rinsing apparatuses

PE-HD. Adjust the water flow to approx. 2 l/min. Pack of 1.

for pipette length mm	Capacity l	inner-Ø mm	Base Ø mm	Height mm	Cat. No.
460	13	150	315	740	291 20
600	17	150	315	1000	291 25



Soaking jars

PE-HD. Pack of 1.

for pipette length mm	Capacity l	inner-Ø mm	Base Ø mm	Height mm	Cat. No.
460	10	150	240	510	292 10
600	12.5	150	240	660	292 15



Pipette baskets

PE-HD. Pack of 1.

for pipette length mm	Basket height incl. handle mm	Base Ø mm	Basket height mm	Cat. No.
360	495	145	280	290 05
460	645	145	280	290 10
600	870	145	280	290 15



Pipette jar

with lid

PP, lid PE-HD. The jar is suitable for dust-proof storage of pipettes up to 400 mm long. Pack of 1.

Base Ø mm	Height mm	inner-Ø mm	Cat. No.
130	430	83	288 00





Draining rack

PS. Integrated wide draining trough. Pegs can be inserted as required. Peg holes are closed at the back – preventing leakage toward the wall. Suitable for glass graduated cylinders of up to 250 ml and beakers up to 1000 ml. Supplied complete with drain tubing and accessories for wall mounting. Width 450 mm, height 630 mm, 72 pegs (Ø 16 mm, length 120 mm). Pack of 1.

Cat. No.	951 05
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Special pegs

for draining rack

PS. Special pegs for narrow-mouthed or small vessels, e.g., test tubes, small volumetric flasks and graduated cylinders. Outer diameter 6 mm, length 120 mm. Pack of 11.

Cat. No.	951 11
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Pipette tray

PVC. Practical tray for pipettes of any size. Length 280 mm, width 220 mm, height 29 mm. Pack of 1.

Cat. No.	283 00
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Pipette tray

PVC. Drawer organizer. Four compartments for approx. 30 graduated pipettes (1 - 20 ml). Length 420 mm, width 300 mm, height 30 mm. Pack of 1.

Cat. No.	283 05
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Pipette tray

PVC. Nine oblong dividers, open on one side. For small-volume pipettes. Length 355 mm, width 300 mm, height 45 mm. Pack of 1.

Cat. No.	7685 15
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Pipette stand

PP. Holds up to 94 pipettes of different sizes. Rotary model, with additional rotary tip rest to protect the pipette tips. Suitable for all graduated and one-mark pipettes. Slightly-curved stand base rim helps retain dripping liquids. Diameter 230 mm, height 450 mm. Pack of 1.



Cat. No.	309 00
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Cleaning

Manual Detergents for Cleaning and Disinfection

Gentle to materials

The special formulation of active ingredients achieves optimum cleaning results even at low temperatures, brief soaking times and low alkalinity. Glass surfaces and graduations will last longer.

Safe on tests

Detergents and disinfecting detergents can be removed without residue. Thus, even sensitive tests in hematology, serology, microbiology and enzymatic analytical chemistry are not affected. Simply observe the recommended concentrations and rinse thoroughly with water.

Environmentally friendly

All BRAND detergents and disinfecting detergents conform to current legislation and regulations. They are free from formaldehyde, and contain biodegradable surfactants and other ingredients that are not harmful to the environment. Phosphate content is considerably reduced.

User-friendly

Our cleaners and disinfecting cleaners have a very broad spectrum of activity. Therefore, only a small number of products are needed for a great variety of procedures. These cleaners and disinfecting cleaners do not contain caustic alkali. This is why they are particularly gentle to material, and are fully effective even in hard water.

Cost efficient

Normally soiled instruments will become clean when using the recommended concentration of detergent. For heavy soiling, it is recommended to heat the solution within the indicated limits. However, an excessively high concentration will not increase the cleaning performance. In this connection, please note the technical information on page 298-299.



Abbreviations:

Association for Applied Hygiene (VAH)
 Robert Koch-Institute (RKI)
 German Society for Hygiene and Microbiology (DGHM)
 German Veterinary Medical Society (DVG)

General cleaning basics can be found on page 298-299.





Mucasol®

Universal detergent

Liquid, alkaline high-performance concentrate for immersion and ultrasonic baths. Universal cleaner for laboratory equipment and instruments made of glass, porcelain, plastic, rubber and metal. Items are cleaned in ~ 10 – 30 minutes, without mechanical help. Mucasol® replaces chromosulfuric acid, is free from chlorine and caustic alkalis, is non-toxic, non-aggressive and biodegradable. Prolonged exposure of zinc and non-anodized aluminium surfaces should be avoided.

Ingredients:

> 30% phosphates,
< 5% anionic surfactants, amphoteric surfactants, complexing agents, corrosion inhibitors, auxiliary agents

Concentration for use:

Ultrasonic bath:
0.2 - 2% (1.4 - 14 ml/l)
Immersion bath:
0.7 - 3% (5 - 22 ml/l)

Chemical and physical specifications:

Light green, clear liquid
Density: approx. 1.4 g/ml
pH value (0.7%): approx. 11.5
pH value (3%): approx. 11.7

Description	Pack of	Cat. No.
2 liter bottle (2.8 kg)	6	440 03
5 liter can (7 kg)	1	440 05



Edisonite® CLASSIC

Universal detergent

Alkaline detergent. Powder compound for immersion and ultrasonic bath. Ideal for removal of natural fats and oils, proteins and blood. Durable protection against corrosion damage.

Ingredients:

> 30% phosphates,
< 5% anionic surfactants, non-ionic surfactants, corrosion inhibitors, auxiliary agents

Concentration for use:

0.5 - 1% (5 - 10 g/l)

Chemical and physical specifications:

Light green powder
Bulk density: approx. 850 kg/m³
pH value (0.5%): approx. 11.5
pH value (1%): approx. 11.5
Use on zinc and non-anodized aluminium is restricted.

Description	Pack of	Cat. No.
1 kg jar	6	443 01
5 kg bucket	1	442 05



Edisonite® SUPER

Universal detergent

Neutral detergent. Powder compound for immersion and ultrasonic bath. Ideal for removal of natural fats and oils, proteins and blood. Edisonite® SUPER is recommended for optical glass, for plastics sensitive to alkalis and rubbers.

Ingredients:

> 30% phosphates,
5 - 15% anionic surfactants,
corrosion inhibitors, auxiliary agents

Concentration for use:

0.5 - 1% (5 - 10 g/l)

Chemical and physical specifications:

Light green powder
Bulk density: approx. 800 kg/m³
pH value (0.5%ig): approx. 7.5
pH value (1%ig): approx. 7.5

Description	Pack of	Cat. No.
1 kg jar	6	443 61
5 kg bucket	1	443 65

Mucocit®-T

Instrument disinfecting detergent

Particularly suited for sensitive instruments. Free of phosphates, aldehydes, phenols and chlorine derivatives. Fresh scent.

Ingredients:

100 g Mucocit®-T contain:
7 g didecyl-dimethylammoniumchloride,
4.5 g alkylpropylenediamino-
1,5-bisguanidiniumacetate,
2 g bis(-aminopropyl)-laurylamine,
2.8 g laurylpropylenediamine,
5 - 15% non-ionic surfactants,
auxiliary agents

Chemical and physical specifications:

Clear, blue liquid, fresh smell
Density: approx. 1 g/ml
pH value (1%): approx. 10

Microbiological efficiency/ concentration for use:

Disinfection of instruments: Bacteria (incl. Tuberculosis and mycobacteria) and fungi with high organic burden according to DGHM/VAH directives:
1% (10 g/l)/1 hour
2% (20 g/l)/30 minutes
3% (30 g/l)/15 minutes
Limited virucidal efficacy* (incl. HIV, HBV, HCV) 1% (10 g/l)/5 minutes
Inactivation of human rotaviruses:
2% (20 g/l)/5 minutes

* As recommended by the RKI, Bundesgesundheitsblatt 01/2004

Description	Pack of	Cat. No.
2 liter bottle	6	448 22
5 liter can	3	448 25



Mucocit®-P

Instrument disinfecting detergent

Powerful and gentle to labware. Free of phosphates, aldehydes and phenols. Fresh scent.

Ingredients:

100 g Mucocit®-P contain:
5 g bis(-aminopropyl)-laurylamine,
5 g didecyl-dimethyl-ammonium chloride,
5 - 15% NTA, < 5% non-ionic surfactants,
phosphonates, auxiliary agents

Chemical and physical specifications:

Light-blue powder, fresh smell
Bulk density: approx. 620 kg/m³
pH value (4%): approx. 11

Microbiological efficiency/ concentration for use:

Disinfection of instruments: Bacteria and fungi with high organic burden acc. to DGHM/VAH directives: 3% (30 g/l)/1 hour
Tuberculosis bacteria: 3% (30 g/l)/1 Std.
Limited virucidal efficacy* (incl. HIV, HBV, HCV): 1% (10 g/l)/5 minutes
Inactivation of human rotaviruses:
1% (10 g/l) / 5 minutes

* As recommended by the RKI, Bundesgesundheitsblatt 01/2004

Description	Pack of	Cat. No.
2.5 kg bucket	3	449 20





- Effective in only 15 seconds!
- DGHM/VAH tested and RKI-compliant, with aerosol-free application (disinfectant wipes)
- Fresh scent!



- Effective in only 15 seconds!
- DGHM/VAH-tested and RKI-compliant!
- Fresh scent!



- DGHM/VAH-tested
- RKI-compliant!
- Aerosol-free disinfectant wipes!
- Fresh scent!

Pursept®-A Xpress disinfection spray

Surface disinfecting detergents

Refillable pump-atomizer without gas.

Ingredients:

100 g Pursept®-A Xpress contain:
55 g ethanol,
0.03 g n-alkyl-aminopropyl-glycine,
auxiliary agents

Chemical and physical specifications:

Clear, colorless liquid
Density: approx. 0.9 g/ml
pH value: approx. 7.5

Microbiological efficiency of the undiluted working solution:

Surface disinfection: Bacteria and fungi with little organic burden with mechanics acc. to DGHM/VAH directives: 15 seconds
Limited virucidal efficacy*
(incl. HIV, HBV, HCV): 15 seconds
Effectiveness against TbB: 30 seconds

* As recommended by the RKI, Bundesgesundheitsblatt 01/2004

Description	Pack of	Cat. No.
1 liter bottle	10**	448 30
5 liter can	3	448 35
Atomizer head	1	448 32

** 10 bottles + 1 atomizer head

Pursept®-A Xpress disinfection tissues

Surface disinfecting detergents

Simply wipe the surfaces with the tissue and leave to soak.

Ingredients:

1 Pursept®-A Xpress tissue contains approx.: 1027 mg ethanol,
0.56 mg n-alkyl-aminopropyl-glycine,
auxiliary agents

Chemical and physical specifications:

Active solution (Pursept®-A Xpress):
Clear, colorless liquid, fresh smell
Density: approx. 0.9 g/ml
pH value: approx. 7.5
Tissues: FCC-bleached (oxidation bleach), bio-degradable

Microbiological efficiency of the undiluted working solution:

Surface disinfection: Bacteria and fungi with little organic burden with mechanics to DGHM/VAH: 15 seconds
Limited virucidal efficacy*
(incl. HIV, HBV, HCV): 15 seconds
Effectiveness against TbB: 30 seconds

* As recommended by the RKI, Bundesgesundheitsblatt 01/2004

Description	Pack of	Cat. No.
Dispenser box (150 tissues)	6	448 40
Refill unit (150 tissues)	6	448 45

Pursept®-AF disinfection concentrate

Surface disinfecting detergents

Cleaning and disinfection of floors, walls and fittings in one operation. Appropriate for use in the foods sector.

Ingredients:

100 g Pursept®-AF contain:
12.5 g didecyl-dimethyl-ammoniumchloride,
1.5 g bis(aminopropyl)-laurylamine,
5 - 15% NTA, < 5% non-ionic surfactants,
auxiliary agents

Chemical and physical specifications:

Clear, green liquid, Density approx.: 1 g/ml
pH value (1%): approx. 9.5

Microbiological efficiency/concentration for use:

Surface disinfection: Bacteria and fungi with high organic burden according to DGHM/VAH directives: 0.25% (2.5 g/l)/4 hours
0.5% (5 g/l)/1 hour
1% (10 g/l)/30 minutes
2% (20 g/l)/15 minutes
Limited virucidal efficacy* (incl. HIV, HBV, HCV): 1% (10 g/l)/15 minutes
Inactivation of human rotaviruses:
0.25% (2.5 g/l)/2 minutes
Effectiveness against TbB:
2% (20 g/l)/1 hour

Description	Pack of	Cat. No.
2 liter bottle	6	448 50
5 liter can	3	448 55

* As recommended by the RKI, Bundesgesundheitsblatt 01/2004

Water Stills

MonoDest 3000 E and 3000 N

- Simple operation and easy to clean (without dismantling the apparatus)
- Compact design
- Stainless steel heaters
- Separate circuits for feed and cooling water
- Low water consumption
- Thermostatically controlled heating cut-off switch provides a high level of safety if the water supply is interrupted

MonoDest: items supplied

Basic unit including power cable, PVC tubing (7 m, inner diameter 10 mm), pinchcock for sump drain; operating manual. Pack of 1.

MonoDest 3000 E

Ideal for applications requiring small quantities of pure water. Particularly high water quality level (conductivity $0.7 \mu\text{S}/\text{cm}$) is obtained by the special design of the condenser. The freshly obtained distillate is virtually free of dissolved gases, metals, salts, and pyrogens.

Cat. No. 562 20

MonoDest 3000 N

The low-cost alternative to the MonoDest 3000 E. Recommended for applications where conductivity of $1.5 \mu\text{S}/\text{cm}$ is sufficient.

Cat. No. 562 15

Accessories and spare parts for MonoDest 3000 E and N. Pack of 1.

Description	Cat. No.
Glass part, DURAN®, for MonoDest 3000 N	563 30
Glass part, DURAN®, for MonoDest 3000 E	563 60
Base for MonoDest 3000 E and N	563 65

Technical data

		MonoDest 3000 E	MonoDest 3000 N
Power consumption	W	3000	3000
Rated current	A	14	14
Voltage	V/Hz	220-240/50-60	220-240/50-60
Tap water connection:			
Minimum pressure	bar	2	2
Distillate output			
with tap water	l/h	4.2	4.2
with deionized water	l/h	4.0	–
Conductivity of distillate			
referred to 25 °C	$\mu\text{S}/\text{cm}$	0.7	1.5
Distillate temperature	°C	96	96
Cooling water consumption			
with tap water	l/h	45	45
with deionized water	l/h	55	–
Cooling water temperature:			
Inlet	°C	16	16
Outlet			
with tap water	°C	64	64
with deionized water	°C	48	–
Heater	Material	Stainless steel	Stainless steel
		1.4529	1.4529
Glass parts	Material	DURAN®	DURAN®
Height	mm	750	600
Space required			
(without distillate bottle)	mm	220 x 220	220 x 220
Weight	kg	6	6



MonoDest 3000 E



MonoDest 3000 N

Scaffolding Components

System of components for individual scaffolding constructions. Broad range of versatile connectors, swivel holders and clamps fitting the rust-proof, high-tensile aluminum alloy support rods. Mounting elements subjected to particular strain are principally made of the high-tensile Castaloy® alloy.



L-shaped base

For space-saving support assemblies. Solid cast iron base with 3 threaded holes hold up to 3 rods (12.7 mm diameter). Supplied with one steel (copper and nickel plated) support rod. Pack of 1.

Distance between feet mm	Rod length mm	Rod Ø mm	Weight kg	Cat. No.
140	610	12.7	3.5	5668 00

Supplemental support rod

Steel, nickel-plated. Length 910 mm, Ø 12.7 mm. Pack of 1.

Cat. No.	
	5668 50



Tripod bases

Very stable solid cast-iron tripod base, black enamel. Screwed-in steel support rod, copper and nickel plated. Pack of 1.

Distance between feet mm	Rod length mm	Rod Ø mm	Weight kg	Cat. No.
155	460	7.9	0.7	5667 05
190	510	9.5	1.3	5667 10
235	610	11.0	2.0	5667 15
280	910	12.7	3.5	5667 20

► Stand for burettes: see page 167
Filter funnel supports: see page 225

Rectangular bases

Solid rectangular base plate, sturdy epoxy resin. Rubber feet prevent sliding. Steel support rod, copper and nickel plated, secured with a locknut. Pack of 1.



Base plate length mm	Base plate width mm	Rod length mm	Rod Ø mm	Weight kg	Cat. No.
150	100	460	7.9	0.7	5667 50
200	130	510	9.5	1.2	5667 55
230	150	610	11.0	1.7	5667 60
280	170	910	12.5	2.6	5667 65

Base plate

Castaloy® alloy. For permanent mounting of support rods 12.7 mm diameter. Supplied with 3 wood screws and one rod securing screw. Pack of 1.



Cat. No. 5666 25

Support rods

High-tensile polished aluminum alloy. Rounded ends. Pack of 1.



Length mm	Ø mm	Cat. No.
100	12.7	5666 58
300	12.7	5666 59
450	12.7	5666 60
600	12.7	5666 65
900	12.7	5666 70
1250	12.7	5666 75
1850	12.7	5666 80

Straight connector

High-tensile aluminum alloy. For straight connection of two rods 12.7 mm Ø. Two nickel-plated brass setscrews. Length 51 mm, outer diameter 22 mm. Pack of 1.

Cat. No. 5666 27



90° connector

Castaloy® alloy. For connection of two rods 12.7 mm diameter at a right angle. Two nickel-plated brass setscrews. Pack of 1.

Cat. No. 5666 20



Multiclutch connector

Castaloy® alloy. Very versatile element for connection of rods 12.7 mm diameter. Can be moved horizontally and vertically along rods. One enlarged hole (vertical in the picture) for one or two parallel rods. Four additional holes for right-angle connections. Pack of 1.

Cat. No. 5666 28





Swivel connector

Castaloy® alloy. For space-saving connection of two rods of 12.7 mm diameter at any desired angle. Can be installed without dismantling the frame.
Pack of 1.

Cat. No.	5666 26
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90° connector (hook connector)

Castaloy® alloy. For connection of two rods at a right angle or for connecting extensions. For rods of 11 to 12.7 mm diameter. Can be installed without dismantling the frame.
Pack of 1.

Cat. No.	5666 18
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90° regular holder

Castaloy® alloy. For connections of rods and extensions of up to 19 mm diameter at a right angle. Pack of 1.

Cat. No.	5754 19
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90° jumbo holder

High-tensile aluminum alloy. Extra-strong model for heavy loads. For rods of 7.9 to 22 mm diameter. Flat grip surfaces also allow mounting to plates or benchtops up to 19 mm thick. Pack of 1.

Cat. No.	5757 21
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Swivel holder

Castaloy® alloy. Consists of two screw clamps which can be freely rotated against each other. The swivel position is set by a wing screw. The holder will not separate when the wing screw is loosened. For rods and other elements up to 19 mm diameter. Pack of 1.



Cat. No.	5762 19
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Double-swivel holder

Castaloy® alloy. Extra-sturdy model with strong grip. Connects rods and other elements up to 19 mm diameter at any angle, in any plane. Two large wing nuts securely lock the two swivel joints. Pack of 1.

Cat. No.	5764 19
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Three-prong clamp with mounting rod

Castaloy® alloy. Two separately adjustable clamping arms allow precise positioning of the object. Anodized aluminum wing screws; stainless steel spring. Complete with both PVC and glass fiber sleeves. Pack of 1.

Grip width mm	Rod length mm	Rod Ø mm	Overall length mm	Cat. No.
0 - 25	110	7.9	170	5744 25
0 - 57	130	11.0	220	5744 57
0 - 89	150	12.7	270	5744 89

Jaw clamp with mounting rod

Castaloy® alloy. Two slightly angled jaws hold cylindrical objects like test tubes, flasks or condensers. Stainless-steel spring. Mounting rod diameter 11 mm. Complete with both PVC and glass fiber sleeves. Pack of 1.

Grip width mm	Rod length mm	Overall length mm	Cat. No.
38	110	200	5735 38
64	130	230	5735 63



Three-prong clamp with integral connector

Castaloy® alloy. Two separately adjustable clamping arms allow precise object positioning. Models: connecting angle alternatively 90° (rigid), or freely swivelling through 360° (screwthread, max. possible extension 5 mm) and lockable. Anodized aluminum wing screws; stainless steel spring. Complete with both PVC and glass fiber sleeves. Pack of 1.

Description	Grip width mm	Holding distance mm	Cat. No.
360° swivelling	0 - 57	115	5770 57
90° rigid	0 - 57	115	5778 57



Jaw clamp with integral connector

Castaloy® alloy. Two slightly angled jaws hold cylindrical objects like test tubes, flasks or condensers. Models: connecting angle alternatively 90° (rigid), or freely swivelling through 360° (screwthread, max. possible extension 5 mm) and lockable. Anodized aluminum wing screws; stainless steel spring. Complete with both PVC and glass fiber sleeves. Pack of 1.

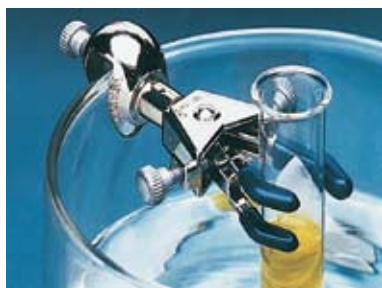
Description	Grip width mm	Holding distance mm	Cat. No.
360° swivelling	13 - 38	115	5770 38
90° rigid	13 - 38	115	5778 38



Large chain clamp with mounting rod

Castaloy® alloy. For beakers, reaction vessels and other round objects with 50 to 165 mm diameter. Chain loop of nickel-plated steel holds the object against the PVC-coated clamping jaw. Mounting rod length 132 mm, diameter 12.7 mm. Pack of 1.

Cat. No.	5745 76
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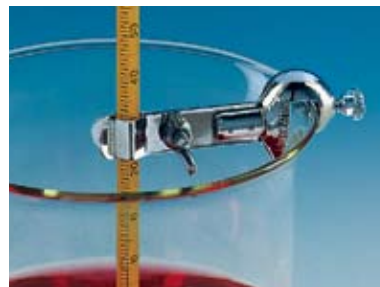
Three-prong water bath clamp

Castaloy® alloy. Mounts on the upper rim of the water bath (wall thickness 3-8 mm, min. inner diameter 80 mm). Useful for many items like test tubes, thermometers, etc. Clamping arms individually adjustable. Grip width 0-25 mm. Complete with both PVC and glass fiber sleeves. Pack of 1.

Cat. No.	5445 70
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Jaw water bath clamp

Castaloy® alloy. Mounts on the upper rim of the water bath (wall thickness 3-8 mm, min. inner diameter 80 mm). Holds thermometers, test tubes, etc. with outer diameter 6-13 mm. Spring-loaded jaws of nickel-plated phosphor-bronze with wing nut. Pack of 1.



Cat. No.	5445 75
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Thermometer clamp with mounting rod

Castaloy® alloy. Holds thermometers, glass tubes, etc. of 6-13 mm Ø at a distance of approx. 60-175 mm from the support. Nickel-plated phosphor-bronze spring-loaded jaws with wing nut. Mounting rod length 150 mm, diameter 11 mm. Pack of 1.



Cat. No.	5809 10
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Thermometer clamp with integral connector

Castaloy® alloy. Holds thermometers, glass tubes, etc. of 6-13 mm diameter at a distance of approx. 95 mm from the support. Adjustable angle with locking wing nut. Nickel-plated phosphor-bronze spring-loaded jaws with wing nut. Pack of 1.



Cat. No.	5809 15
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Ring supports, closed

Sturdy design of solid cast iron. Integrated connector. Distance between ring center and support rod: 110 mm (for all sizes). Pack of 1.

Ring inner-Ø mm	Cat. No.
60	5665 07
84	5665 10
109	5665 12





Ring support, open

Sturdy design of solid cast brass. Open ring design facilitates insertion and removal of heavy separating funnels, etc. PVC coating reduces the risk of glass breakage. Integrated connector. Ring inner diameter 58 mm. Distance between ring center and support rod: 70 mm. Pack of 1.

Cat. No.	5665 15
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Ring support, height-adjustable

Castaloy® alloy. For separating funnels, levelling bottles, etc. of min. 64 mm Ø. Slides easily along the support rod and locks itself tight when released by hand. Very sturdy design. PVC-coated ring reduces risk of glass breakage. For support rods of 12.5 to 12.7 mm diameter. Ring inner diameter 61 mm. Pack of 1.

Cat. No.	5753 63
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Hosecock clamp

Castaloy® alloy. Precise control of flow rate in normal tubing and vacuum tubing to outer diameter 18 mm. Opens sideways. Pack of 1.

Cat. No.	5847 19
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Hosecock clamp, heavy-duty

Castaloy® alloy. Very sturdy (weight 0.23 kg), with large knurled screw (diameter 38 mm). For heavy-walled tubing, e.g., vacuum tubing up to outer diameter 22 mm. Hinged top with snap-latch closure. With holes and wood screws for permanent installation. Pack of 1.

Cat. No.	5846 19
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