

Twoje laboratorium – Nasze rozwiązania



# Katalog Produktów Laboratoryjnych

Wydanie 1



PARTNER OF THE  
**LLG**  
Laboratory Supply Solutions

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# Twoje laboratorium – Nasze rozwiązania

Szanowni Państwo,

WITKO Sp. z o.o. to renomowana firma działająca w branży kompleksowego wyposażenia laboratoriów. Oferujemy odczynniki, sprzęt, materiały zużywalne, dygestoria, systemy mebli laboratoryjnych oraz serwis. Od wielu lat obsługujemy klientów w zakresie profesjonalnego doradztwa, kalibracji i napraw urządzeń laboratoryjnych, prowadzimy usługi projektowania i budowy laboratoriów na terenie całego kraju. Jesteśmy jednym z liderów na rynku i specjalizujemy się w dostarczaniu rozwiązań dla laboratoriów z branży badań naukowych, farmaceutycznej, biotechnologii, przemysłowej, edukacyjnej, rządowej i opieki zdrowotnej.

Jesteśmy jedynym kapitałowo polskim udziałowcem międzynarodowej grupy logistycznej Lab Logistics Group (LLG- Laboratory Supply Solutions). Posiadamy magazyny: centralny w Meckenheim k/ Bonn oraz dwa buforowe w Łodzi. W ofercie posiadamy ponad 1 000 000 produktów od przeszło 700 dostawców, a także własną markę odczynników chemsolve® i materiałów zużywalnych labsolve. Jesteśmy wyłącznym dystrybutorem rozwiązań wielu światowych marek m.in.: Radleys, Vapourtec, czy Waldner, premium dystrybutorem Heidolph oraz autoryzowanym dystrybutorem J.T.Baker na rynek polski.

Nasze rozwiązania znajdują zastosowanie praktycznie na każdym etapie najważniejszych działań badawczo-rozwojowych i produkcyjnych w obsługiwanych przez nas branżach. Niezależnie od projektu - dużego lub małego, prostego lub złożonego - pomoc naszym klientom w osiągnięciu ich celów jest najważniejsza. W tym roku nasza firma obchodzi swoje 35-lecie!

To dla nas ogromny kamień milowy, który świadczy o naszym zaangażowaniu, profesjonalizmie i ciągłym dążeniu do doskonałości przez te wszystkie lata. Chcielibyśmy podziękować wszystkim naszym klientom za zaufanie, współpracę i wsparcie, które okazali nam przez ten czas. To dzięki Państwu, nasza firma może się rozwijać i osiągać coraz większe sukcesy.

Dziękujemy, że jesteście z nami!

Małgorzata i Sławomir Witkowscy  
Zarząd WITKO



## Kompleksowe wyposażenie i serwis nowoczesnych, zrównoważonych laboratoriów

- ✓ WYSOKIEJ JAKOŚCI ODCZYNNIKI – w tym własna marka chemsolve®
- ✓ NAJNOWSZY SPRZĘT I URZĄDZENIA
- ✓ AUTORYZOWANY SERWIS
- ✓ AKCESORIA I MATERIAŁY ZUŻYWALNE



- ✓ MEBLE LABORATORYJNE I DYGESTORIA
- ✓ USŁUGI PROJEKTOWANIA I BUDOWY LABORATORIÓW
- ✓ DORADZTWO PROCESOWE, KONSULTING I SZKOLENIA
- ✓ i wiele więcej...



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**Published by:**

Lab Logistics Group GmbH  
Meckenheim / Germany

**Editor:**

Lab Logistics Group GmbH, Germany

**Printing:**

druckpruskil. GmbH, Germany

**Software:**

WiesoSoft GmbH, Schifferstadt, Germany  
STIBOSYSTEMS, Aarhus, Denmark

**Design:**

Lab Logistics Group GmbH, Germany  
fotolia.de, Shutterstock.com and www.freepik.com  
Catja Vedder, Köln, Germany and Eugenia Brüse Photographie, Bonn, Germany

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**Copies:** 42.900

**Published:** 2024

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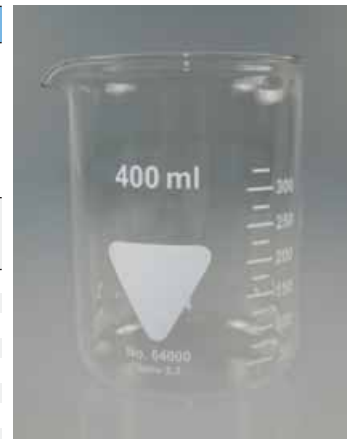
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**Beakers, Borosilicate glass 3.3, low form**

- ISO 3819
- With spout
- From 25 ml with graduation

Scherf Präzision



Nominal capacity		Ø	Height	PK	Cat. No.
ml	mm	mm			
5	22	30	10	9.013 905	
10	26	35	10	9.013 906	
25	34	50	10	9.013 900	
50	42	60	10	9.013 901	
100	50	70	10	9.013 902	
150	60	80	10	9.013 903	
250	70	95	10	9.013 904	
400	80	110	10	9.013 910	
600	90	125	10	9.013 911	
800	100	135	10	9.013 912	
1000	105	145	10	9.013 913	
2000	132	185	10	6.270 091	
3000	150	210	1	6.270 090	
5000	170	270	1	6.280 298	

**Beakers glass, DURAN®, low form**

DIN 12331. ISO 3819. With spout. From 25 ml with graduation. With easy-to-read scale and large labelling field for easy marking. In fired-on, highly durable white ceramic. Due to the uniform wall thickness, it is suitable for use as a heating vessel. Glass Type I/neutral as per USP, EP and JP. With retrace code (Batch Identification, for all) except 5ml, 10ml and 25ml. Certificate available via the Internet. Autoclavable.

DWK Life Sciences



Nominal capacity		Ø	Height	PK	Cat. No.
ml	mm	mm			
5	22	30	10	4.665 752	
10	26	35	10	4.665 754	
25	34	50	10	4.665 746	
50	42	60	10	4.665 753	
100	50	70	10	4.665 751	
150	60	80	10	4.665 750	
250	70	95	10	4.665 749	
400	80	110	10	4.665 748	
600	90	125	10	4.665 745	
800	100	135	10	4.665 744	
1000	105	145	10	4.665 747	
2000	132	185	1	9.013 063	
3000	152	210	1	9.013 068	
5000	170	270	1	9.013 073	
10000	217	350	1	9.013 086	

**Beakers Super Duty, DURAN®, low form**

With approximate graduations and spout. Reinforced, sturdy rim and increased mechanical strength for heavy duty. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable.

DWK Life Sciences



Nominal capacity		Ø	Height	PK	Cat. No.
ml	mm	mm			
150	60	80	1	9.051 150	
250	70	95	1	9.051 151	
400	80	110	1	9.051 152	
600	90	125	1	9.051 153	
1000	105	145	1	9.051 154	
2000	132	185	1	9.051 155	
5000	170	270	1	9.051 156	



### Beakers, Borosilicate glass 3.3, tall form

- DIN 12331
- ISO 3819
- With spout
- From 50 ml with graduation

Scherf Präzision

Nominal capacity		Ø	Height		PK	Cat. No.
ml	mm	mm	mm			
25	30	55		10	9.013 924	
50	38	70		10	9.013 925	
100	48	80		10	9.013 920	
150	54	95		10	9.013 921	
250	60	120		10	9.013 922	
400	70	130		10	9.013 923	
600	80	150		10	9.013 930	
800	90	175		10	9.013 931	
1000	95	180		10	9.013 932	
2000	120	240		10	6.270 117	
3000	135	280		1	6.313 628	



### Beakers glass, DURAN®, tall form

DIN 12331. ISO 3819. With approximate graduations and spout. With easy-to-read scale and large labelling field for easy marking, in fired-on, highly durable white ceramic. Due to the uniformly wall thickness, it is suitable for use as a heating vessel. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable.

DWK Life Sciences

Nominal capacity		Ø	Height		PK	Cat. No.
ml	mm	mm	mm			
50	38	70		10	4.665 762	
100	48	80		10	4.665 755	
150	54	95		10	4.665 759	
250	60	120		10	4.665 758	
400	70	130		10	4.665 761	
600	80	150		10	4.665 760	
800	90	175		10	4.665 757	
1000	95	180		10	4.665 756	
2000	120	240		1	9.013 163	
3000	135	280		1	9.013 168	



### LLG-Griffin beakers, PP



LLG Labware

Transparent. Low form with practical spout and easy-to-read blue graduation.

- Autoclavable at 121 °C
- Good chemical resistance
- Stackable
- According to ISO 7056

Nominal capacity	Graduation	Ø	Height		PK	Cat. No.
ml	ml	mm	mm			
25	5	32	47	2	9.013 670	
50	10	39	60	2	9.013 671	
100	10	50	70	2	9.013 672	
250	25	67	93	2	9.013 673	
500	50	88	119	2	9.013 674	
1000	50	109	147	2	9.013 675	
2000	100	133	184	1	9.013 676	



### Griffin beakers, PP



VITLAB GmbH

With spout and easily readable, raised blue printed scale (10, 25 and 50 ml only in blue printed scale). To preserve markings, cleaning at no higher than 60 °C is recommended. Food-safe product according to regulation (EU) No. 10/2011.



Nominal capacity	Graduation	Ø	Height	PK	Cat. No.
ml	ml	mm	mm		
1000	100	120	147	1	9.013 262
2000	200	149	187	1	9.013 264
3000	250	170	212	1	9.013 266
5000	500	203	247	1	9.013 270
10	2	30	36	12	4.679 535
25	5	38	50	12	4.667 586
50	10	47	60	12	4.667 576
100	10	55	70	12	4.667 575
150	20	66	80	12	4.667 574
250	25	77	95	6	4.667 577
400	50	87	112	6	4.667 584
500	50	94	118	6	4.667 583
600	50	100	127	6	4.667 573
1000	100	120	147	6	4.667 582
2000	200	149	187	6	4.667 585

### LLG-Measuring jugs with handle, PP



LLG Labware

Made of highly transparent Polypropylen. Functional spout to prevent dripping. With easy-to-read blue graduation for precise filling with liquids.

- Autoclavable at 121 °C
- Open handle
- Stackable
- According to ISO 7056

Nominal capacity	Graduation	Ø	Height	PK	Cat. No.
ml	ml	mm	mm		
250	5	75	115	2	9.013 680
500	10	100	137	2	9.013 681
1000	10	125	167	2	9.013 682
2000	20	148	217	1	9.013 683
3000	25	170	244	1	9.013 684



### Measuring jugs with handle, PP



Kartell S.p.A.

Short form. Highly translucent especially when filled with liquids. Permanently moulded graduations. Heavy duty, with non-drip spout. Thumb grip on handle. Autoclavable

Nominal capacity	Graduation	Ø	Height	PK	Cat. No.
ml	ml	mm	mm		
500	25	90	116	1	9.013 591
1000	50	116	131	1	9.013 592
2000	50	145	165	1	9.013 593
3000	100	165	180	1	9.013 594
5000	250	190	225	1	9.013 595





### Graduated jugs, PP, moulded, blue graduations

VITLAB GmbH



Highly transparent. With moulded, blue graduations, spout and stable, easy-grip handle. Autoclavable at 121 °C (2 bar) according to DIN EN 285. Food-safe product according to regulation (EU) No. 10/2011. To preserve markings, do not clean at temperatures exceeding 60 °C. Conditionally autoclavable at 121 °C (2 bar) according to DIN EN 285. For autoclaving, we recommend the design with raised graduations.

Nominal capacity	Graduation	Ø	Height	PK	Cat. No.
ml	ml	mm	mm		
50	2	40	70	1	9.275 772
100	2	50	80	1	9.275 773
250	5	74	120	1	9.275 748
500	10	92	140	1	9.275 775
1000	10	117	181	1	9.275 776
2000	20	152	213	1	9.275 777
3000	50	172	242	1	9.275 778
5000	50	204	270	1	9.275 779



### LLG-Erlenmeyer flasks, borosilicate glass 3.3, with screw cap

Erlenmeyer flasks made of borosilicate glass 3.3. Screw cap with PTFE liner.

LLG Labware

- White graduation and labelling field
- GL thread

Nominal capacity	Bottom Ø	Height	Thread	PK	Cat. No.
ml	mm	mm			
100	64	100	GL32	2	4.686 198
250	85	140	GL32	2	4.686 199
500	105	175	GL32	2	4.686 200
1000	131	220	GL32	1	4.686 201



### Erlenmeyer flasks, Borosilicate glass 3.3, narrow neck

- DIN ISO 1773

Scherf Präzision

- With graduations and beaded rim

Nominal capacity	Neck Ø	Bottom Ø	Height	Standard	PK	Cat. No.
ml	mm	mm	mm			
25	22	42	70	ISO 1773	10	9.141 079
50	22	51	90	ISO 1773	10	9.141 080
100	22	64	105	ISO 1773	10	9.141 081
200	34	79	135		10	9.141 085
250	34	85	145	ISO 1773	10	9.141 082
300	34	87	160		10	9.141 086
500	34	105	180	ISO 1773	10	9.141 083
1000	42	131	220	ISO 1773	10	9.141 084
2000	50	166	280	ISO 1773	10	6.270 089
3000	50	187	310	ISO 1773	1	6.270 118
5000	50	220	365	ISO 1773	1	6.270 119

### Erlenmeyer flasks, narrow neck, DURAN®

DIN ISO 1773. With approximate graduations and beaded rim. From 50 ml with Retrace Code (Batch Identification), certificate available via the Internet. Erlenmeyer flasks are well suited for mixing, because of their conical shape. Uniform wall thickness distribution makes these beakers ideal for heating applications. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable. *DWK Life Sciences*

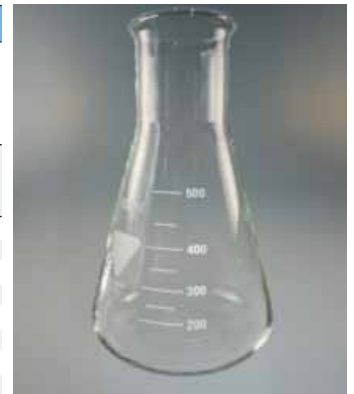
Nominal capacity	Neck Ø	Bottom Ø	Height	Standard	PK	Cat. No.
ml	mm	mm	mm			
125	28	67	112	ISO 1773	1	9.141 028
150	28	74	118		1	6.234 510
250	34	85	145	ISO 1773	1	9.141 036
800	42	120	200	ISO 1773	1	9.141 053
2000	50	166	280	ISO 1773	1	9.141 063
3000	52	187	310	ISO 1773	1	9.141 068
5000	52	220	365	ISO 1773	1	9.141 073
25	22	42	75	ISO 1773	10	6.322 373
50	22	51	90	ISO 1773	10	6.322 374
100	22	64	105	ISO 1773	10	6.322 375
200	34	79	131		10	6.322 376
250	34	85	145	ISO 1773	10	6.322 377
300	34	87	156		10	6.322 378
500	34	105	180	ISO 1773	10	6.322 379
1000	42	131	220	ISO 1773	10	6.322 380
2000	50	166	280	ISO 1773	10	6.322 381



### Erlenmeyer flasks, Borosilicate glass 3.3, wide neck

- DIN ISO 24450 *Scherf Präzision*  
- With graduations and beaded rim

Nominal capacity	Neck Ø	Bottom Ø	Height	Standard	PK	Cat. No.
ml	mm	mm	mm			
25	31	41	69		10	9.141 186
50	35	51	85	ISO 24450	10	9.141 180
100	35	64	105	ISO 24450	10	9.141 181
200	50	79	131		10	9.141 187
250	50	85	140	ISO 24450	10	9.141 182
300	50	87	156		10	9.141 183
500	50	105	175	ISO 24450	10	9.141 184
1000	50	131	220	ISO 24450	10	9.141 185
2000	69	166	280	ISO 24450	10	6.270 181



### Erlenmeyer flasks, DURAN®, wide neck

DIN EN ISO 24450. With approximate graduations and beaded rim. With Retrace Code (Batch Identification), certificate available via the Internet. Uniformly wall thickness. Glass type I/neutral glass as per USP, EP and JP. Autoclavable. *DWK Life Sciences*

Nominal capacity	Neck Ø	Bottom Ø	Height	Standard	PK	Cat. No.
ml	mm	mm	mm			
25	31	43	70		1	9.141 114
50	34	51	85	DIN EN ISO 24450	1	9.141 117
100	34	64	105	DIN EN ISO 24450	1	9.141 124
200	50	79	131		1	9.141 132
250	50	85	140	DIN EN ISO 24450	1	9.141 136
300	50	87	156		1	9.141 139
500	50	105	175	DIN EN ISO 24450	1	9.141 144
1000	50	131	220	DIN EN ISO 24450	1	9.141 154
2000	72	153	276		1	9.141 163



### Erlenmeyer flasks DURAN® Super Duty, wide neck

With approximate graduations. Reinforced, sturdy rim and increased mechanical strength for heavy duty. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable. *DWK Life Sciences*

Nominal capacity	Neck Ø	Bottom Ø	Height	PK	Cat. No.
ml	mm	mm	mm		
100	34	64	105	1	9.141 280
250	50	85	140	1	9.141 281
500	50	105	175	1	9.141 282
1000	50	131	220	1	9.141 283



## Vessels/Flasks-Test tubes



### Erlenmeyer flasks, wide mouth, GL 45, PP, with blue screw neck

VITLAB GmbH



Transparent. Suitable for storage and cultivation of cell cultures. To preserve markings, do not clean at temperatures exceeding 60 °C.

- Suitable for microwaves
- Food-safe product according to EC Directive No. 10/2011

Nominal capacity	Thread	PK	Cat. No.
<b>ml</b>			
75	GL45	1	9.141 000
125	GL45	1	9.141 001
250	GL45	1	9.141 002
500	GL45	1	9.141 003
1000	GL45	1	9.141 004



### LLG-Weighting rings, cast iron, vinyl coated

LLG Labware

To stabilise glassware in water or oil baths. The vinyl coating prevents vessels and apparatus from being scratched or marked.

For flasks	Int. Ø	PK	Cat. No.
<b>ml</b>			
100 ... 500	48	1	4.682 062
250 ... 1000	56	1	4.682 063
500 ... 2000	61	1	4.682 064
1000 ... 4000	74	1	4.682 065



### LLG-Test tubes, soda-lime glass

LLG Labware

Test tubes with round bottom. Hydrolytic resistance: Class HGB 3 acc. to ISO 719, Type III acc. to C - USP.

Dimensions (ØxL)	PK	Cat. No.
8 x 70 mm	100	6.201 034
10 x 100 mm	100	6.801 073
12 x 75 mm	100	9.400 009
12 x 100 mm	100	7.607 198
14 x 130 mm	100	6.800 620
14 x 130 mm	100	9.400 030
15 x 100 mm	100	7.651 872
16 x 100 mm	100	9.400 022
16 x 120 mm	100	7.651 871
16 x 130 mm	100	6.800 382
16 x 160 mm	100	7.600 405
16 x 160 mm	100	9.400 040
18 x 130 mm	100	7.652 552
18 x 180 mm	100	9.400 050
20 x 180 mm	100	7.607 778
25 x 150 mm	50	6.800 621
30 x 100 mm	100	6.267 806
30 x 200 mm	50	7.600 324



### Test tubes, boro 3.3, with PP stopper

BRAND GMBH + CO.KG

Graduations of approx. volume and markings are in high contrast white enamel.

Dimensions (ØxL)	Ground size	Nominal capacity		PK	Cat. No.
		ml	ml		
15 x 165 mm	NS12/21	10	0.1	1	9.190 508
17 x 200 mm	NS14/23	20	0.2	1	9.190 516
17 x 220 mm	NS14/23	25	0.2	1	9.190 521
19 x 220 mm	NS14/23	30	0.5	1	9.190 524

### Rolled rim bottles, soda-lime glass, with PE snap-on lid

Tight closing.

Resch Laborglas

Nominal capacity	Ø with cap	Height	PK	Cat. No.
ml	mm	mm		
3	19	31	200	9.400 211
5	19	41	200	9.400 215
10	24	32	200	7.609 731
10	22	46	200	9.400 225
10	21	51	200	9.400 220
15	24	52	200	9.400 235
20	27	56	200	9.400 240
20	25	71	200	9.400 250
25	30	51	250	9.400 230
25	30	65	200	6.270 036
30	28	76	200	9.400 260
40	30	81	200	9.400 270
50	30	101	200	9.400 280
100	34	146	100	9.400 290

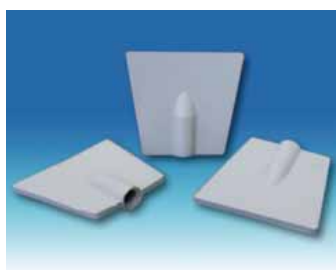


### Test tube cleaners, rubber

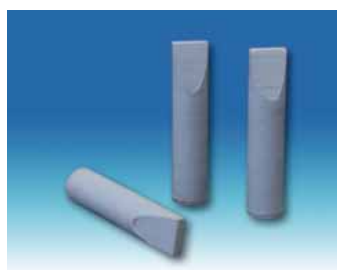
For removing heavy soiling from test tubes by scraping. With 5 mm boring for rod.

Deutsch & Neumann

Form	Width	PK	Cat. No.
	mm		
Rubber Spatulas (grey)	35	1	9.190 902
Rubber Spatulas (red)	35	1	6.051 806
Rubber Spatulas (transparent)	35	1	6.076 243
Rod-shaped	8	1	9.190 901
4 blades	30	1	9.190 903



9.190 902



9.190 901



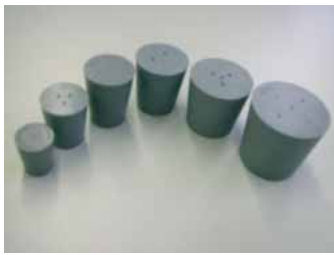
9.190 903

### Stoppers for test tubes, PE

Kartell S.p.A.

For tubes Ø	Colour	PK	Cat. No.
mm			
11 ... 13	Natural	100	9.231 642
11 ... 13	Blue	100	9.231 644
11 ... 13	Yellow	100	9.231 646
11 ... 13	Red	100	9.231 648
11 ... 13	Green	100	9.231 650
15 ... 17	Natural	100	9.231 641
15 ... 17	Blue	100	9.231 643
15 ... 17	Yellow	100	9.231 645
15 ... 17	Red	100	9.231 647
15 ... 17	Green	100	9.231 649





### Rubber stoppers

DIN 12871. Solid.

Deutsch &amp; Neumann

Bottom Ø	Top Ø	Height	Colour	PK	Cat. No.
mm	mm	mm			
3.5	6.5	15.0	Grey	1	9.230 203
5.0	9.0	20.0	Grey	1	9.230 205
8.0	12.0	20.0	Grey	1	9.230 208
10.5	14.5	20.0	Grey	1	9.230 210
12.5	16.5	20.0	Grey	1	9.230 212
14.0	18.0	20.0	Grey	1	9.230 214
17.0	22.0	25.0	Grey	1	9.230 217
18.0	24.0	30.0	Grey	1	9.230 218
21.0	27.0	30.0	Grey	1	9.230 221
23.0	29.0	30.0	Grey	1	9.230 223
26.0	32.0	30.0	Grey	1	9.230 226
29.0	35.0	30.0	Grey	1	9.230 229
31.0	38.0	35.0	Grey	1	9.230 231
36.0	44.0	40.0	Grey	1	9.230 236
41.0	49.0	40.0	Grey	1	9.230 241
47.0	55.0	40.0	Grey	1	9.230 247
50.5	59.5	45.0	Grey	1	9.230 250
56.0	65.0	45.0	Grey	1	9.230 256
60.0	70.0	50.0	Grey	1	9.230 260
64.5	75.5	55.0	Grey	1	9.230 264
71.0	83.0	60.0	Grey	1	9.230 271
79.0	92.0	65.0	Grey	1	9.230 279
87.0	100.0	65.0	Grey	1	9.230 287
94.0	107.0	65.0	Grey	1	9.230 294



### LLG-Cellulose stoppers Steristoppers®

LLG Labware



Cellulose, 100% biodegradable and fully compostable autoclavable. Steristoppers® have been proved as an excellent sealing for microbiological samples and tissue cultures in test tubes and Erlenmeyer flasks. They are in constant use in many European microbiological laboratories.

- Autoclavable
- Filters bacteria
- Sterilizabile
- Air permeable

Type	For inter. diam. mm	Bottom diam. mm	Top diam. mm	Length mm	PK	Cat. No.
No. 10	9.5 - 11.5	9	14.0	31	1000	9.231 210
No. 12	11.5 - 13.5	11	16.0	32	1000	9.231 211
No. 12 P	11.5 - 13.0	10	17.0	31	1000	6.510 967
No. 13	12.5 - 14.5	13	17.0	35	1000	9.231 212
No. 13 H	12.5 - 13.5	10	15.0	30	1000	7.628 015
No. 18 P	17.5 - 19.5	16	22.0	40	500	7.600 718
No. 22 short	21.5 - 23.0	20	25.0	31	500	6.239 556
No. 27	27.0 - 32.5	25	35.0	53	1000	7.210 063
No. 36	35.5 - 39.5	36	40.0	58	600	7.600 688
Magnum (for glasses with variable wall thickness)	26.0 - 30.0	26	34.0	69	800	6.073 109

### LLG-Microtube racks, PP, 80-well

LLG Labware



Made of Heavy-duty Polypropylene. Designed to hold 1.5 ml/2.0 ml microtubes (5 x 16 arrays) in a temperature range from -80 °C to 121 °C. Molded numbers on the surface for easy samples identification. Suitable for autoclaving at 121 °C. Cavity Ø 11 mm.

For research and development only.



No. of positions	Opening Ø mm	Colour	PK	Cat. No.
80	11	Colour sorted	5	4.672 062
80	11	Yellow	5	4.672 063
80	11	Red	5	4.672 064
80	11	Blue	5	4.672 065
80	11	Orange	5	4.672 067
80	11	Green	5	4.672 068

### Microtube racks, PP



BRAND GMBH + CO.KG

Grey. Numbered positions for 20 x 1.5 ml microcentrifuge tubes. Autoclavable (121 °C).



For vessels ml	No. of positions	Dimensions (WxDxH)	Colour	PK	Cat. No.
1,5	20	210 x 70 x 37 mm	Grey	1	9.409 380

### Tube Rack, PP



BRAND GMBH + CO.KG

Stackable racks with alphanumerical positions. Operating temperature -20 °C to 90 °C. Autoclavable at 121 °C (2 bar), acc. DIN EN 285. Density 1.2 g/cm³. Will not float in water bath. Racks are supplied in two-pieces (up to Ø 11 mm, for micro tubes) or three-pieces (up to Ø 13 mm for cryogenic tubes) for convenient and permanent assembly.



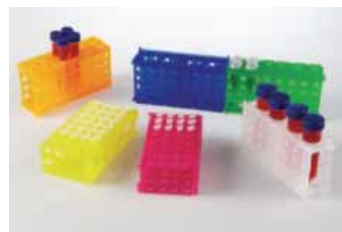
For vessel Ø mm	No. of positions	Dimensions (WxDxH)	Colour	PK	Cat. No.
13	84	265 x 126 x 38 mm	White	5	4.689 044
13	84	265 x 126 x 38 mm	Blue	5	4.689 045
13	84	265 x 126 x 38 mm	Red	5	4.689 046
11	128	265 x 126 x 38 mm	White	5	4.688 836
11	128	265 x 126 x 38 mm	Blue	5	4.688 837
11	128	265 x 126 x 38 mm	Red	5	4.688 838

### Microtube racks, PP, 4-Way



Heathrow Scientific

Racks feature a unique system of tabs and slots, which facilitate easy assembly and sturdy fit to build as large as rack as you need. Heavy-duty polypropylene racks can hold 4 x 50 ml or 12 x 15 ml conical tubes, 32 x 1.5 ml or 32 x 0.5 ml microtubes. Autoclavable.



Dimensions (WxDxH)	Colour	PK	Cat. No.
175 x 95 x 51 mm	Natural	1	9.409 131
175 x 95 x 51 mm	Blue	1	9.409 132
175 x 95 x 51 mm	Green	1	9.409 133
175 x 95 x 51 mm	Pink	1	9.409 134
175 x 95 x 51 mm	Yellow	1	9.409 135
175 x 95 x 51 mm	Orange	1	9.409 136
175 x 95 x 51 mm	Colour sorted	5	9.409 137

### Tube Rack Rota-Rack®, PP



Heathrow Scientific

Interlocked racks. Rotate each of the four modules independently. Use several sizes of test tubes, culture tubes, centrifuge tubes or microcentrifuge tubes at the same time. Each module holds: 2 x 50 ml tubes, 8 x 10-15 ml tubes, 6 x 15-20 ml tubes or 10 x 10-13 ml tubes. Autoclavable.



Dimensions (WxDxH)	PK	Cat. No.
224 x 110 x 110 mm	1	9.193 988

## Vessels/Tube racks



### Microtube Storage Boxes, PP, 50-/100-Well



Heathrow Scientific

Compact storage box has angled front slot for easy access to tubes. Rugged, polypropylene box has durable three-point hinges, snapping clasp for secure closure, moulded grid lines on lid, imprinted coordinates on bottom of base and imprinted and raised coordinates on tube wells. Ideal for sample or case study storage. Holds 1.5 ml to 2.0 ml microtubes. Resist storage temperatures from -80 to 121 °C. Autoclavable.

Colour	Dimensions (L x W x H)	Array	PK	Cat. No.
mm				
blue, green, purple, yellow, orange	141 x 92 x 56	50	5	9.193 985
natural	141 x 92 x 56	50	1	6.243 162
blue, green, purple, yellow, orange	141 x 151 x 57	100	5	9.193 981
natural	141 x 151 x 57	100	1	6.206 710
black	141 x 151 x 57	100	1	6.253 894

### LLG-Test tube rack, PP



LLG Labware

Made of PP. Stackable. Supplied in three parts and are easy to assemble. Alphanumeric grid referenced on top tier for easy identification of samples. Can be used in water baths. With large lateral marking area. Autoclavable.

For vessel Ø	No. of positions	Dimensions (WxDxH)	Colour	PK	Cat. No.
mm					
16	60	251 x 106 x 71 mm	White	1	6.286 169
16	60	251 x 106 x 71 mm	Blue	1	6.286 170
16	60	251 x 106 x 71 mm	Red	1	6.286 171
20	40	252 x 108 x 72 mm	White	1	6.286 172
20	40	252 x 108 x 72 mm	Blue	1	6.286 173
20	40	252 x 108 x 72 mm	Red	1	6.286 174
30	21	252 x 107 x 71 mm	White	1	6.286 175
30	21	252 x 107 x 71 mm	Blue	1	6.286 176
30	21	252 x 107 x 71 mm	Red	1	6.286 177



6.286 170



6.286 172



6.286 177



### Rack for centrifuge tubes, PP



ISOLAB Laborgeräte

Suitable to hold 15 ml and 50 ml centrifuge tubes with conical bottom. Just push the tubes into the cavities and leave them. Unique design has an angular end to provide easy stacking for space saving purpose. Moulded in alpha numeric grid reference on the rack allows easy sample identification.

For vessels	No. of positions	Dimensions (WxDxH)	PK	Cat. No.
ml				
15	25	150 x 120 x 32 mm	1	6.267 412
50	25	230 x 190 x 35 mm	1	6.267 413



### Test tube rack, PP



BRAND GMBH + CO.KG

For all common test tube diameters. Very sturdy design. All openings are widely spaced apart to accommodate screw cap tubes. All racks have the same footprint and can be stacked easily when empty. Modified PP with greater density than water makes them ideal for use in water baths. Large marking area (60 x 12mm) for barcode labels and alphanumeric references for clear sample identification. Racks are supplied in three parts for quick and permanent assembly. Continuous use temperature -20 to 90 °C. Autoclavable at 121 °C (2 bar), according to DIN EN 285. Choice of colours as outlined below.



For vessel Ø mm	No. of positions	Dimensions (WxDxH)	Colour	Temperature resistance	PK	Cat. No.
13	84	126 x 265 x 75 mm	White	-20 ... 90 °C	5	4.688 085
13	84	126 x 265 x 75 mm	Blue	-20 ... 90 °C	5	4.688 846
13	84	126 x 265 x 75 mm	Red	-20 ... 90 °C	5	4.688 841
16	55	126 x 265 x 75 mm	White	-20 ... 90 °C	5	4.688 913
16	55	126 x 265 x 75 mm	Blue	-20 ... 90 °C	5	4.688 908
16	55	126 x 265 x 75 mm	Red	-20 ... 90 °C	5	4.688 904
18	55	126 x 265 x 75 mm	White	-20 ... 90 °C	5	4.688 852
18	55	126 x 265 x 75 mm	Blue	-20 ... 90 °C	5	4.688 847
18	55	126 x 265 x 75 mm	Red	-20 ... 90 °C	5	4.688 842
20	40	126 x 265 x 75 mm	White	-20 ... 90 °C	5	4.688 853
20	40	126 x 265 x 75 mm	Blue	-20 ... 90 °C	5	4.688 848
20	40	126 x 265 x 75 mm	Red	-20 ... 90 °C	5	4.688 843
25	32	126 x 265 x 88 mm	White	-20 ... 90 °C	5	4.688 850
25	32	126 x 265 x 88 mm	Blue	-20 ... 90 °C	5	4.688 844
25	32	126 x 265 x 88 mm	Red	-20 ... 90 °C	5	4.688 839
30	21	126 x 265 x 88 mm	White	-20 ... 90 °C	5	4.688 851
30	21	126 x 265 x 88 mm	Blue	-20 ... 90 °C	5	4.688 845
30	21	126 x 265 x 88 mm	Red	-20 ... 90 °C	5	4.688 840

### Test tube racks, stainless steel

Corrosion resistant, stainless steel wire. Electrochemically polished. Opening size 18 x 18mm. Mesh grid levels are positioned at the top and 30 mm above the base.

Württ. Drahtwarenfabrik

No. of positions	Opening Ø mm	PK	Cat. No.
24	18	1	9.193 824
36	18	1	9.193 836
48	18	1	9.193 848
48	18	1	9.193 948



### Test tube holders, wood

Wood with metal spring.

helo® Heckelmann

For tubes Ø mm	PK	Cat. No.
20	10	9.193 749
30	10	9.193 750





### LLG-Sample containers, PP, Heavy Duty, with screw cap, HDPE

Ideal for liquid specimen collection, transportation and storage.

LLG Labware

- Ideally suited for liquid histological samples
- Container made of non-cytotoxic polypropylene
- Very solid quality
- Top and bottom gripping assures easy opening and closing when wearing gloves
- Half-transparency containers
- With graduation
- With label
- Leak proof

For research and development only.

Nominal capacity	Ø with cap	Height	Sterile	Colour	Labeling field	PK	Cat. No.
ml	mm	mm					
20	37	42	No	Transparent	Printed	1000	6.265 649
40	50	40	No	Transparent	Printed	500	6.265 650
60	50	58	No	Transparent	Printed	500	6.265 651
80	50	77	No	Transparent	Printed	300	6.265 652
120	58	77	No	Transparent	Printed	300	6.265 653
160	57	100	No	Transparent	Printed	200	6.282 108
250	97	52	No	Transparent	Printed	154	6.265 654
250	97	52	Yes	Transparent	Printed	70	6.267 972
450	97	110	No	Transparent	Printed	132	6.265 655
900	120	138	No	Transparent	Printed	64	6.265 656
900	120	138	No	Transparent	Without	64	6.270 049



### LLG-Sample containers, PS, with screw cap, sterile

With PE or PP screw cap. Ideal for many applications as sample collection, transportation or storage.

LLG Labware

- Non-cytotoxic
- EO sterilized
- 30 ml container with conical skirted bottom
- Ideal for small volume samples
- Leakproof-tested
- Unique leak tight cap ensures exceptional leakproof seal
- With plain label

For research and development only.

Colour: Transparent  
 Colour closure: White  
 Labeling field: Printed

Nominal capacity	Ø	Ø with cap	Height	Sterile	PK	Cat. No.
ml	mm	mm	mm			
7	17	22	48	Yes	700	6.265 646
30	24	30	90	Yes	50	6.265 647
60	39	43	58	Yes	60	6.265 648



### Scintillation vials, PE

Unbreakable vials compatible with all liquid scintillation counters. Heavy walled to minimize solvent losses. Special PP screw cap to achieve leakproof closure (Cat. Art. 6.204 304). Insert vials, capacity of 4 ml, supplied with screw caps, (Cat. Art. 6.901 743).

Kartell S.p.A.

Nominal capacity	Outer diam.	Height	PK	Cat. No.
ml	mm	mm		
20	26.50	60.1	1000	6.204 304
4	13.71	53.6	2000	6.901 743



### LLG-Sample containers, PP, with screw cap, PP

LLG Labware



White, with screwed-on lid.

Nominal capacity	Ø with cap	Height	Sterile	Colour	PK	Cat. No.
ml	mm	mm				
30	58	19	No	White	10	9.402 310
75	58	47	No	White	10	9.402 313
310	81	81	No	White	10	9.402 318
600	119	67	No	White	10	9.402 321
1250	119	130	No	White	5	9.402 324

**Jars, PP with PP screw cap**



Laborbedarf

White, complete with red PP screw cap, in safe pack with certificate of analysis.



Colour closure: Red

Nominal capacity	Ø with cap	Height	Sterile	Colour	PK	Cat. No.
ml	mm	mm				
25	34	40	No	White	25	7.077 661
60	41	56	No	White	25	6.254 446
90	56	52	No	White	25	7.077 852
125	56	68	No	White	25	7.085 372
250	73	79	No	White	20	7.053 933
500	96	90	No	White	9	7.052 896
625	96	113	No	White	6	7.051 092
1000	112	129	No	White	3	7.052 895
1250	112	159	No	White	3	7.053 930

**Jars with screw cap, LaboPlast®, PP**



Bürkle GmbH

White. Without residues, free of undercuts, sterilisable.



Nominal capacity	Ø with cap	Height	Sterile	Colour	PK	Cat. No.
ml	mm	mm				
12	25	31	No	White	1	7.624 042
25	31	40	No	White	1	7.631 862
60	41	56	No	White	1	6.901 503
90	52	52	No	White	1	6.222 886
125	52	67	No	White	1	6.802 809
250	68	79	No	White	1	6.050 562
625	90	113	No	White	1	6.078 446
1000	102	129	No	White	1	6.055 461

**Multi-purpose beakers with screw cap, PP**

Transparent, with red screw cap. Non-sterile or sterile. Sterile beakers are single packed. Ideal beaker for sampling and storing of solid, muddy and liquid samples.

Ratiolab GmbH



Nominal capacity	Ø with cap	Height	Sterile	Colour	Labeling field	PK	Cat. No.
ml	mm	mm					
30	43	47	No	Transparent	Without	1000	9.401 860
30	43	47	Yes	Transparent	Without	500	6.287 527
60	43	66	No	Transparent	Plain	600	6.260 493
120	63	73	No	Transparent	Plain	500	6.803 183
120	63	73	Yes	Transparent	Plain	250	6.093 728
200	64	80	Yes	Transparent	Without	150	6.262 099
200	64	80	No	Transparent	Without	200	6.261 429
200	64	82	Yes	Crystal clear	Printed	150	9.401 861



### Storage jars without closure, series 376, HDPE

Natural round jars. The wide mouth allows for easy filling and cleaning.  
Black caps available with PE foam leakproof wad - please order separately.

Kautex Textron GmbH

Colour: Natural

Nominal capacity	Ø	Height	Sterile	Thread Ø	Tubing int. Ø	PK	Cat. No.
ml	mm	mm		mm	mm		
100	48	77	No	40	31	1	9.073 388
250	65	98	No	50	41	1	9.073 389
500	80	122	No	65	53	1	9.073 390
750	94	130	No	65	53	1	9.073 391
1000	100	153	No	80	67	1	9.073 392
1500	114	173	No	80	67	1	9.073 393
2000	126	192	No	80	67	1	9.073 394

Height in mm without lid.



### Screw caps, PP, for wide mouth containers series 376

Black, screw cap with PE-foam insert.

Kautex Textron GmbH

Thread Ø	Sealing of closure	For bottles	Colour	PK	Cat. No.
mm		ml			
32	Foam liner, PE	50	Black	1	9.073 070
40	Foam liner, PE	100	Black	1	9.073 071
50	Foam liner, PE	200/250/300	Black	1	9.073 072
65	Foam liner, PE	500/750	Black	1	9.073 073
80	Foam liner, PE	750/1000/1500/2000	Black	1	9.073 074
80	Foam liner, PE	2000	Black	1	9.073 075



### Wide mouth jars, PET, with screw cap, PP

Transparent with white polypropylene cap. Food-safe. Round, except 1000 ml and 2000 ml which are square.

Behr Labor-Technik

Colour: Transparent  
Colour closure: White

Nominal capacity	Ø	Height	Sterile	Thread Ø	PK	Cat. No.
ml	mm	mm		mm		
100	74	37	No	69	10	9.103 136
250	81	72	No	69	10	9.103 137
500	88	108	No	81	10	9.103 138
1000	85	174	No	81	10	6.242 746
2000	118	186	No	100	10	9.103 140
2500	140	212	No	100	10	9.103 148
3000	150	212	No	100	10	9.103 149

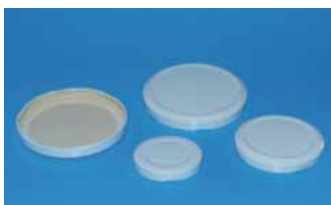


### LLG-Wide-neck jars, glass

Twist-off jar, with wide-neck. Suitable for storing or transporting liquids and coarse solids. The large opening facilitates cleaning and filling of the clear glass. Please order caps separately.

LLG Labware

Nominal capacity	Ø	Height	PK	Cat. No.
ml	mm	mm		
106	48.0	78.0	12	9.070 301
212	63.0	80.5	12	9.070 302
375	63.0	120.5	12	9.070 303
720	82.0	148.0	12	9.070 304
1062	82.0	176.0	12	9.070 305



### Caps, metal, for LLG-Wide-Neck jars

White. Twist-off screw cap for LLG-Wide-neck jars

LLG Labware

Cap size	For bottles	Colour	PK	Cat. No.
mm	ml			
48	106	White	12	9.070 306
63	212/375	White	12	9.070 307
82	720/1062	White	12	9.070 308

**LLG-Buckets, PP**

White. With lid and temper-evident closure. For transport, packaging and storage of foodstuffs, building materials and non-corrosive chemicals. Stability guaranteed when filling up with material up to 80 °C.

LLG Labware

Nominal capacity	Ø	Height		PK	Cat. No.
l	mm	mm	mm		
1.0	131	127		1	9.040 030
2.0	179	133		1	9.040 031
3.0	198	141		1	9.040 032
5.0	224	193		1	9.040 033
10.0	266	265		1	9.040 034
1.0	131	127		10	6.291 418
2.0	179	133		10	6.291 419
3.0	198	141		10	6.291 420
5.0	224	193		10	6.291 421
10.0	266	265		10	6.291 422



**Buckets, HDPE**



VITLAB GmbH

White. Without spout. With division into 1L segments. Stable handle with reinforcement in the middle for comfortable carrying. Food-safe product according to regulation (EU) No. 10/2011. Tightly closing, transparent LDPE lid - please order separately.

Nominal capacity	Ø	Height		Division	PK	Cat. No.
l	mm	mm	mm	ml		
5.0	250	240		1000	1	9.040 006
10.0	290	300		1000	1	9.040 012



**Lids for buckets, LDPE**

Transparent.

VITLAB GmbH

For vessels	Colour	PK	Cat. No.
ml			
5000	Transparent	1	9.040 206
10000	Transparent	1	9.040 212



**Buckets with spout, PP**



VITLAB GmbH

Transparent. With division into 1L segments. With stable handle and spout for easy emptying. Highly resistant to chemicals. Without lid. Food-safe product according to regulation (EU) No. 10/2011.

Nominal capacity	Ø	Height		Division	PK	Cat. No.
l	mm	mm	mm	ml		
12.0	310	330		1000	1	9.040 022
15.0	310	370		1000	1	9.040 025



**LLG-Bottles, wide mouth, HDPE**

Suitable for food. With carrying handle. Ideal for containing liquids, powders and granules. Very strong and durable quality for extended use over time. With screw cap and additional inner cap for a very tight seal. Screw cap can be attached to the bottle using the integrated loops. The bottles can be used by temperature from -40 °C to 80 °C. Please use only in upright position.

LLG Labware



Nominal capacity	Dimension (ØxH)	Neck int. Ø	Thread Ø	Temperature resistance	PK	Cat. No.
l		mm	mm			
5	170 x 350 mm	84	94	-40 ... 80 °C	1	9.139 938
10	210 x 420 mm	99	109	-40 ... 80 °C	1	9.139 939



### LLG-Aspirator Bottles, narrow neck, HDPE

With carrying handle. Suitable for food. Very strong and durable quality for extended use over time. With gasket in the screw cap for a very tight seal. Screw cap can be attached to the bottle using the integrated loops. With thread of 12 mm depth for use with a 3/4" stopcock. Please order the stopcock separately. The bottles can be used by temperatures from -40 °C to 80 °C. Please use only in upright position.

LLG Labware

Nominal capacity	Dimension (ØxH)	Neck int. Ø	Thread Ø	Temperature resistance	PK	Cat. No.
l		mm	mm			
5	160 x 350 mm	52	62	-40 ... 80 °C	1	9.139 929
10	210 x 430 mm	52	62	-40 ... 80 °C	1	9.139 930
25	270 x 570 mm	84	97	-40 ... 80 °C	1	9.139 931
50	350 x 690 mm	84	97	-40 ... 80 °C	1	9.139 932

### LLG-Aspirator Bottles, narrow neck, HDPE, with stopcock

With carrying handle and 3/4" stopcock. Thread and opening for stopcock provided. Suitable for food. Very strong and durable quality for extended use over time. With gasket in the screw cap for a very tight seal. Screw cap can be attached to the bottle using the integrated loops. The bottles can be used by temperature from -40 °C to 80 °C. Please use only in upright position.

LLG Labware



Nominal capacity	Dimension (ØxH)	Neck int. Ø	Thread Ø	Temperature resistance	PK	Cat. No.
l		mm	mm			
5	160 x 350 mm	52	62	-40 ... 80 °C	1	9.139 933
10	210 x 430 mm	52	62	-40 ... 80 °C	1	9.139 934
25	270 x 570 mm	84	97	-40 ... 80 °C	1	9.139 935
50	350 x 690 mm	84	97	-40 ... 80 °C	1	9.139 936

### Stopcock, 3/4", for LLG-Aspirator bottles

For 9.139 929 - 9.139 932 and 9.139 933 - 9.139 936.

LLG Labware



Type	PK	Cat. No.
Tap for aspirator bottles	1	9.139 937

### Aspirator bottles, series 350, HDPE

Kautex Textron GmbH



Food-grade product according to Regulation (EC) No 10/2011. Natural with printed blue graduations (in L) and screwed closure. With or without threaded connection at base. Inside neck diameter 50 mm.

**Please order stopcock separately.**



Nominal capacity	Dimension (ØxH)	Neck int. Ø	PK	Cat. No.
l		mm		
5	167 x 330 mm	50	1	9.011 009
10	206 x 427 mm	50	1	9.011 010
25	278 x 580 mm	50	1	9.011 025
60	346 x 823 mm	50	1	9.011 060
5	167 x 330 mm	50	1	9.011 069
10	206 x 427 mm	50	1	9.011 071
25	278 x 580 mm	50	1	9.011 072
60	346 x 823 mm	50	1	9.011 076

**Accessories for series 350 aspirator bottles**

*Kautex Textron GmbH*

Type	PK	Cat. No.
Stopcock, HDPE, blue	1	9.011 181
Blanking plug with sealing, natural HDPE	1	9.011 170
Reducer, blue for 9.139 997	1	9.011 078



**LLG-Carboy, PP, with handles**

*LLG Labware*



LLG-Carboy with screw cap made of PP for storing and dispensing media, solutions and other liquids. The practical shoulder handle facilitates transport and pouring.

- With graduation
- Autoclavable
- Stable bottom with curved corners
- Leak-proof

Nominal capacity	Dimension (ØxH)	Neck int. Ø	Cap size	PK	Cat. No.
l		mm	mm		
10	249 x 376 mm	65	83	1	4.692 534
20	285 x 518 mm	65	83	1	4.692 535
50	376 x 665 mm	65	83	1	4.692 536



**Aspirator Carboys Nalgene™, Type 2319, 2250, with handle, PP**

*Thermo Elect.LED*



With 83 mm diameter neck, screw cap and shoulder handles. Graduated. For nutritive media, distilled water or other solutions. Leakproof. Not for use with aggressive substances. Neck also accepts stoppers, 36mm in height and a top/bottom diameter of 75/62mm. Autoclavable - for best results, autoclave using a properly vented closure.



Nominal capacity	PK	Cat. No.
l		
10	1	9.002 721
20	1	9.002 722
50	1	9.002 723
10	1	9.011 102
20	1	9.011 103
50	1	9.011 104

### Space saving jerrycan Flachmann LaboPlast®, PP

Transparent. With its low width the compact jerrycan Flachman is ideal as a space-saving canister. Different liquids can be stored and decanted in a small space. Flachmann can also be stored lying on its side e.g. in a refrigerator. It is very stable due to ribbed structure and thick sides. The compact jerrycan can also be used as a settling canister. With the optional support stands for 5 l jerrycans, they can be placed safely in the open. Bürkle GmbH

- With tamper-evident cap, PP, blue
- Canister without valve autoclavable
- Graduations: 250 ml
- With moulded, indestructible litre graduation



### Space saving jerrycan Flachmann LaboPlast®, PP, without threaded connector

Transparent. With its low width the compact jerrycan Flachman is ideal as a space-saving canister. Different liquids can be stored and decanted in a small space. Flachmann can also be stored lying on its side e.g. in a refrigerator. It is very stable due to ribbed structure and thick sides. The compact jerrycan can also be used as a settling canister. With the optional support stands for 5 l jerrycans, they can be placed safely in the open.

- With tamper-evident cap, PP, blue
- Canister without valve autoclavable
- Graduations: 250 ml
- With moulded, indestructible litre graduation

Nominal capacity	Dimensions (WxDxH)	PK	Cat. No.
l			
5.0	65 x 335 x 335 mm	1	9.140 001
10.0	125 x 335 x 335 mm	1	6.290 252



### Space saving jerrycan Flachmann LaboPlast®, PP, with threaded connector

Transparent. With its low width the compact jerrycan Flachman is ideal as a space-saving canister. Different liquids can be stored and decanted in a small space. Flachmann can also be stored lying on its side e.g. in a refrigerator. It is very stable due to ribbed structure and thick sides. The compact jerrycan can also be used as a settling canister. With the optional support stands for 5 l jerrycans, they can be placed safely in the open.

- With tamper-evident cap, PP, blue
- Canister without valve autoclavable
- Graduations: 250 ml
- With moulded, indestructible litre graduation

Nominal capacity	Dimensions (WxDxH)	PK	Cat. No.
l			
5.0	65 x 335 x 335 mm	1	9.140 002
10.0	125 x 335 x 335 mm	1	6.290 253



### Space-saving Compact set LaboPlast®, PP

Space-saving Compact set: 1 Flachmann LaboPlast® canister 5 l or 10 l and 1 stopcock Compact (9.140 003). The compact stopcock for canisters features an impressive compact design, therefore it can be stored on its side e.g. within a refrigerator or rack without screwing off the stop-cock. Bürkle GmbH

Nominal capacity	Dimensions (WxDxH)	PK	Cat. No.
l			
5.0	65 x 335 x 335 mm	1	9.140 004
10.0	125 x 335 x 335 mm	1	6.290 255



### Stopcocks LaboPlast®

#### StopCock Siphon

Bürkle GmbH

- With rotatable spout, preventing drips
- With tapered spout for bottles with narrow openings from diameter 6 mm to 8 mm
- Fits screw threads with G 3/4"
- Pressure proof to 2 bar at 20 °C (without discharge bracket and grommet)
- Parts in contact with media made of PP, PE and PTFE
- Food safe

#### StopCock Compact

- Compact design, the short discharge does not protrude over the lower edge of the container
- The specially optimised design of the discharge forms an even stream of liquid with no splashing or spattering
- The Compact stop cock fits all containers with G 3/4" connecting threads
- PP, PE and PTFE are materials that offer outstanding chemical resistance to acids and bases
- Food safe

#### StopCock PA

- Made of polyamide, electroconductive, can be grounded separately
- Ideally suited for solvents
- Inexpensive alternative to stainless steel stopcocks
- PTFE seal
- Including adapter for 3/4" inner thread made of PA electroconductive
- Fits all containers with 3/4" outer thread and with included adapter, to all 3/4" inner threads



Type	PK	Cat. No.
StopCock Siphon	1	9.139 997
StopCock Compact	1	9.140 003
StopCock PA	1	9.140 000

### Safety containers, HDPE, electrically conductive, with UN approval

Suitable for the S.C.A.T. safety system.

SCAT Europe GmbH

**Please note:** The containers can be grounded with a suitable grounding cable (4.005 653, please order separately).

Nominal capacity	Dimensions (WxDxH)	Thread	PK	Cat. No.
I				
5.0	165 x 195 x 241 mm	S 60/61	1	4.687 105
10.0	185 x 290 x 265 mm	S 60/61	1	4.005 602
20.0	185 x 290 x 500 mm	S 60/61	1	4.005 671
30.0	240 x 364 x 455 mm	S 60/61	1	4.664 150
60.0	330 x 395 x 625 mm	S 70/71	1	4.005 593



### Aspirator Carboys behroplast®, HDPE

With welded stopcock. Food-safe. Leakproof, even after prolonged use.

Behr Labor-Technik

Nominal capacity	Dimensions (WxDxH)	PK	Cat. No.
I			
5.0	160 x 190 x 240 mm	1	9.140 100
10.0	190 x 190 x 360 mm	1	9.140 101
20.0	250 x 280 x 370 mm	1	9.140 098
25.0	240 x 300 x 450 mm	1	9.140 099
30.0	260 x 300 x 450 mm	1	9.140 102
60.0	330 x 390 x 670 mm	1	9.140 103



### Industrial jerrycans, HDPE, with UN approval

Jerrycans with capacity of 2 to 30 L. **Please order closures separately.**

Kautex Textron GmbH

Nominal capacity	Dimensions (WxDxH)	Opening Ø		PK	Cat. No.
		mm	mm		
I					
2.5	153 x 115 x 208 mm	35	45	25	4.679 548
3.0	153 x 115 x 240 mm	35	45	25	4.679 550
5.0	190 x 145 x 251 mm	41	50	16	4.679 551
10.0	230 x 190 x 310 mm	41	50	1	9.140 030
10.0	230 x 190 x 310 mm	41	50	10	4.679 546
20.0	290 x 246 x 385 mm	49	60	6	4.679 549
30.0	320 x 284 x 435 mm	49	60	1	9.140 038
20.0	290 x 246 x 385 mm	49	60	1	9.140 032
25.0	290 x 246 x 450 mm	49	60	1	9.140 031
30.0	320 x 284 x 435 mm	49	60	1	9.140 033





### Screw caps and accessories for industrial jerrycans, HDPE

Kautex Textron GmbH

For	Description	PK	Cat. No.
5 / 10 litre jerrycans	Black, with tear-off ring and vent	1	9.140 068
2 / 2.5 / 3 / 6 / 8 litre jerrycans	Black, with tear-off ring and vent	1	9.140 048
20 / 25 / 30 litre jerrycans	Black, with tear-off ring and vent	1	9.140 050
2 / 2.5 / 3 / 6 / 8 litre jerrycans	Black, with tear-off ring	1	9.140 051
5 / 10 litre jerrycans	Black, with tear-off ring	1	9.140 046
20 / 25 / 30 litre jerrycans	Black, with tear-off ring	1	9.140 047
5 / 10 litre jerrycans	Red, with tear-off ring	1	9.140 042
20 / 25 / 30 litre jerrycans	Red, with tear-off ring	1	9.140 043
2 / 2.5 / 3 / 6 / 8 litre jerrycans	With stopcock	1	9.140 062
5 / 10 litre jerrycans	With stopcock	1	9.140 061
20 / 25 / 30 litre jerrycans	With stopcock	1	9.140 063
2 / 2.5 / 3 / 6 / 8 litre jerrycans	With pump dispenser	1	9.140 054
10 litre jerrycans	With pump dispenser	1	9.140 065
20 litre jerrycans	With pump dispenser	1	9.140 070
25 litre jerrycans	With pump dispenser	1	9.140 071
30 litre jerrycans	With pump dispenser	1	9.140 072
2 / 2.5 / 3 / 6 / 8 litre jerrycans	Wrench, HDPE to apply / remove	1	9.140 073
5 / 10 / 20 / 25 / 30 litre jerrycans	Wrench, HDPE to apply / remove	1	9.140 108
2 / 2.5 / 3 / 6 / 8 litre jerrycans	Red, with tear-off ring	10	9.140 012
5 / 10 litre jerrycans	Red, with tear-off ring	10	9.140 013
20 / 25 / 30 litre jerrycans	Red, with tear-off ring	10	9.140 014
5 / 10 litre jerrycans	Black, with tear-off ring	10	9.140 015

### Bottletop dispenser LLG-uniTOPDISPENS 2

LLG Labware



The combination of a springless PTFE valve and **PTFE piston** with chemically resistant ETP O-ring enables dispensing of both organic reagents as well as bases, thus, eliminating the need to buy different dispensers for different applications. The improved design of the uniTOPDISPENS 2 bottle top dispenser including a **re-circulation valve** allows a smooth, precise and reliable bubble free dispensing without any loss of reagent. The specially designed bottle adaptor which permits a 360° rotation of the unit, the easy volume setting as well as the flexible delivery nozzle underline the user friendliness of this bottletop dispenser. Available in six volume ranges.

- Springless PTFE valve, PTFE piston with chemically resistant ETP O-ring enables **high chemical compatibility**
- Glass cylinder from borosilicate glass 3.3
- Re-circulation valve enables easy priming and bubble free dispensing
- Smooth, reproducible and effortless dispensing
- 360° rotation possible due to specially designed bottle adapter
- Flexible and adjustable delivery nozzle provides **dispensing angle flexibility** to the user
- Specially designed volume adjustment knob for quick and easy volume setting
- **The telescopic extractable intake tube can be easily adjusted to varying bottle heights**
- Nozzle cap reduces contact with air and prevents drying and dripping if the tip cover is attached
- Five bottle adaptors included (28 mm, 32 mm, 37 mm, 40 mm and 45 mm). Standard thread: 30 mm.
- Fully autoclavable at 121 °C, 15 psi for 10 to 15 min
- Individually calibrated in accordance with ISO 8655 standards and each unit is supplied with an individual calibration certificate
- You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.
- 3 years warranty



Type	Dosing volume	Division	Accuracy	Autoclavable	PK	Cat. No.
		ml	± R%			
LLG-uniTOPDISPENS 2	0.25 ... 2.5 ml	0.050	0.6	Yes	1	6.282 275
LLG-uniTOPDISPENS 2	0.5 ... 5 ml	0.100	0.6	Yes	1	6.282 276
LLG-uniTOPDISPENS 2	1 ... 10 ml	0.200	0.6	Yes	1	6.282 277
LLG-uniTOPDISPENS 2	2.5 ... 30 ml	0.500	0.6	Yes	1	6.282 278
LLG-uniTOPDISPENS 2	5 ... 60 ml	1.000	0.6	Yes	1	6.282 279
LLG-uniTOPDISPENS 2	10 ... 100 ml	2.000	0.6	Yes	1	6.282 280

### Laboratory bottles, Borosilicate glass 3.3, GL45

DIN 168 - 1. EN ISO 4796-1. With graduations, pouring ring, PP screw cap with ISO thread. Certificates are available on request.

Scherf Präzision

Nominal capacity	Ø	Height	Standard	Thread	PK	Cat. No.
ml	mm	mm				
100	56.0	100.0	ISO 4796-1	GL 45	10	9.072 331
250	70.0	138.0	ISO 4796-1	GL 45	10	9.072 332
500	86.0	176.0	ISO 4796-1	GL 45	10	9.072 334
1000	101.0	225.0	ISO 4796-1	GL 45	10	9.072 335
2000	136.0	260.0	ISO 4796-1	GL 45	10	9.072 336
5000	181.0	330.0	ISO 4796-1	GL 45	1	9.072 337
10000	227.0	410.0	ISO 4796-1	GL 45	1	9.072 338



### Laboratory bottles DURAN®

With easy to read scale and large labelling field for easy marking, in fired-on, highly durable white ceramic. 10 ml and 25 ml bottles with specially shaped glass rim for better pouring (eliminating the need for an additional pouring ring).

DWK Life Sciences

- ISO 4796-1 compliant
- With Retrace code
- Neutral glass/Type I glass in compliance with USP/EP and JP
- Autoclavable

### Laboratory bottles, DURAN®, with screw cap

With blue PP screw cap and pouring ring.

DWK Life Sciences

Nominal capacity	Ø	Height with cap	Standard	Thread	PK	Cat. No.
ml	mm	mm				
10	36.0	54.0	-	GL 25	1	9.072 182
100	56.0	105.0	ISO 4796-1	GL 45	1	9.072 001
150	62.0	105.0	ISO 4796-1	GL 45	1	9.071 680
1000	101.0	230.0	ISO 4796-1	GL 45	1	9.072 010
2000	136.0	265.0	ISO 4796-1	GL 45	1	9.072 007
3500	160.0	295.0	ISO 4796-1	GL 45	1	9.071 682
5000	182.0	335.0	ISO 4796-1	GL 45	1	9.072 008
10000	227.0	415.0	ISO 4796-1	GL 45	1	9.072 004
15000	268.0	450.0	ISO 4796-1	GL 45	1	7.076 312
20000	288.0	510.0	ISO 4796-1	GL 45	1	9.072 009
25	36.0	74.0	ISO 4796-1	GL 25	10	4.679 006
50	46.0	91.0	ISO 4796-1	GL 32	10	4.679 003
100	56.0	105.0	ISO 4796-1	GL 45	10	4.679 004
250	70.0	143.0	ISO 4796-1	GL 45	10	4.679 005
500	86.0	181.0	ISO 4796-1	GL 45	10	4.679 007
1000	101.0	230.0	ISO 4796-1	GL 45	10	4.679 010
2000	136.0	265.0	ISO 4796-1	GL 45	10	4.679 008



### Laboratory bottles, DURAN® amber, with retrace code

For the storage and transport of photosensitive substances. With easy-to-read graduation and large labelling field for easy identification. UV protection up to approx. 500 nm wavelength. 10 ml and 25 ml with specially shaped glass rim for better pouring, thus an additional pouring ring made of plastic is not necessary.

DWK Life Sciences

- ISO 4796-1
- USP standard
- Retrace code
- Autoclavable

**Please order screw cap and pouring ring separately.**

Nominal capacity	Ø	Height	Standard	Thread	PK	Cat. No.
ml	mm	mm				
10	36.0	50.0	-	25 GL	1	9.072 183
25	36.0	70.0	ISO 4796-1	25 GL	1	9.071 979
50	46.0	87.0	ISO 4796-1	32 GL	1	9.071 980
100	56.0	100.0	ISO 4796-1	45 GL	1	9.071 981
150	62.0	105.0	ISO 4796-1	45 GL	1	9.071 686
250	70.0	138.0	ISO 4796-1	45 GL	1	9.071 982
500	86.0	176.0	ISO 4796-1	45 GL	1	9.071 983
750	95.0	203.0	ISO 4796-1	45 GL	1	9.071 687
1000	101.0	225.0	ISO 4796-1	45 GL	1	9.071 984
2000	136.0	260.0	ISO 4796-1	45 GL	1	9.071 985
3500	160.0	295.0	ISO 4796-1	45 GL	1	9.071 688
5000	182.0	330.0	ISO 4796-1	45 GL	1	9.071 987
10000	227.0	410.0	ISO 4796-1	45 GL	1	9.071 988
15000	268.0	445.0	ISO 4796-1	45 GL	1	7.021 486
20000	288.0	505.0	ISO 4796-1	45 GL	1	9.071 989



## Vessels/Wide-mouth bottles



### Laboratory Bottle system DURAN® YOUTILITY

- Specially shaped gripping zones on both sides of the bottle for easier and safer handling *DWK Life Sciences*
- With the new YOUTILITY bottle thread opening or closing the bottle is significantly faster. The thread is fully compatible with DIN GL 45 closures and other accessories
- The slimmer YOUTILITY bottle shape allows more optimal use of limited space in autoclaves and laboratory refrigerators
- A pre-defined labelling area is compatible with the dedicated DURAN® self-adhesive YOUTILITY bottle labels
- Nominal volume is shown at the top of the easy-to-read graduation scale for fast determination of the volumes
- Glass bottle body is moulded from the tried and tested DURAN® borosilicate 3.3 Type 1 neutral glass. DURAN® glass offers very good chemical resistance and high temperature resistance
- The YOUTILITY bottle has an integrated Retrace Code to allow full product traceability. The lot specific certificate of conformance is available at: [www.duran-group.com](http://www.duran-group.com)
- Each DURAN® YOUTILITY bottle is supplied as a complete system, with a pouring ring (cyan polypropylene) and a GL 45 cap (cyan polypropylene)

Nominal capacity	Ø	Height with cap	Thread	PK	Cat. No.
ml	mm	mm			
125	55.0	124.0	GL 45	4	9.071 679
250	66.0	158.0	GL 45	4	9.071 678
500	78.0	193.0	GL 45	4	9.071 677
1000	93.0	253.0	GL 45	4	9.071 676

### LLG-Protective netting, roll

From polyethylene for covering glass containers. Cut to size with scissors.  
Package contains 5 m roll.

*LLG Labware*



For bottles diam. mm	Description	Colour	PK	Cat. No.
30 ... 60	LLG Safety Nets, roll	green	1	6.050 132
50 ... 100	LLG Safety Nets, roll	red	1	6.050 133
90 ... 200	LLG Safety Nets, roll	yellow	1	6.079 513

### Screw caps, PP

*DWK Life Sciences*



- With lip seal
- Temperature resistant to 140 °C
- Only suitable for DURAN® laboratory bottles



Thread	Sealing of closure	Colour	Temperature resistance	PK	Cat. No.
GL 25	Lip seal	Blue	140 °C	1	9.209 065
GL 32	Lip seal	Blue	140 °C	1	9.209 067
GL 45	Lip seal	Blue	140 °C	1	9.209 069
GL 45	Lip seal	Yellow	140 °C	1	9.072 400
GL 45	Lip seal	Green	140 °C	1	9.072 401
GL 45	Lip seal	Grey	140 °C	1	9.072 402
GL 25	Lip seal	Blue	140 °C	10	9.209 062
GL 32	Lip seal	Blue	140 °C	10	9.209 063
GL 45	Lip seal	Blue	140 °C	10	9.209 064

### Pouring rings, PP

*DWK Life Sciences*



Autoclavable to 140 °C (steam).



Thread	Colour	Temperature resistance	PK	Cat. No.
GL 32	Blue	140 °C	10	9.209 082
GL 45	Blue	140 °C	10	9.209 084
GL 45	Green	140 °C	10	9.209 078
GL 45	Grey	140 °C	10	9.209 079
GL 45	Yellow	140 °C	10	9.209 080

**Screw caps, high temperature, PBT**



DWK Life Sciences

Red. DIN thread. With PTFE-coated silicone seal. Withstands temperatures up to 180 °C. Autoclavable.

Thread	Sealing of closure	Colour	Temperature resistance	PK	Cat. No.
GL 14	Silicone, PTFE coated	Red	180 °C	10	9.209 015
GL 18	Silicone, PTFE coated	Red	180 °C	10	9.209 019
GL 25	Silicone, PTFE coated	Red	180 °C	10	9.209 026
GL 32	Silicone, PTFE coated	Red	180 °C	10	9.209 033
GL 45	Silicone, PTFE coated	Red	180 °C	10	9.209 044



**Wide-mouth bottles without closure, soda-lime glass, amber**

Amber glass. Round thread neck in accordance with DIN 168. *RIXIUS AG*  
**Please order screw caps separately.**

Nominal capacity	Ø	Height	Standard	Thread	PK	Cat. No.
ml	mm	mm				
30	36.0	68.0	DIN 168	GL 32	126	7.960 507
50	44.0	75.0	DIN 168	GL 32	85	7.960 508
100	50.0	92.5	DIN 168	GL 40	56	6.270 392
125	54.0	98.0	DIN 168	GL 40	84	7.960 510
150	57.0	104.0	DIN 168	GL 45	48	9.072 211
250	70.0	113.0	DIN 168	GL 55	30	6.287 780
500	84.0	154.0	DIN 168	GL 55	20	7.960 512
1000	103.5	180.5	DIN 168	GL 68	12	7.960 513
2500	138.0	281.5	DIN 168	OV 80	11	6.319 441



**Screw caps for wide-mouth bottles, PP/LDPE**

Cap PP, seal LDPE *Klett-Kunststofftechnik*

Thread	Sealing of closure	For bottles	Colour	PK	Cat. No.
		ml			
GL 32	LDPE	30/50	Black	1	9.072 164
GL 40	LDPE	100/125	Black	1	9.072 165
GL 55	LDPE	250/500	Black	1	9.072 166
GL 68	LDPE	1000	Black	1	9.072 167



**Wide-mouth bottles, clear glass, PTFE-lined screw caps**

Clear glass. For storage and transport. The PTFE-lined screw caps make them ideal for taking samples. *Behr Labor-Technik*

Nominal capacity	Thread Ø	PK	Cat. No.
ml	mm		
30	32	1	4.658 144
50	32	1	4.658 145
100	40	1	4.658 146
250	55	1	9.103 200
500	55	1	9.103 201
1000	68	1	9.103 202



**Wide-mouth bottles, amber glass, PTFE-lined screw caps**

Amber glass. For storage and transport. The PTFE-lined screw caps make them ideal for taking samples. *Behr Labor-Technik*

Nominal capacity	Thread	PK	Cat. No.
ml			
30	GL 32	1	4.658 141
50	GL 32	1	4.658 142
100	GL 40	1	4.658 143
250	GL 55	1	9.072 325
500	GL 55	1	9.072 326
1000	GL 68	1	9.072 327





### Wide-mouth bottles with GLS 80® neck, DURAN®, clear, with screw cap

Laboratory bottle with GLS 80® wide neck (80 mm diameter), autoclavable and up to 500 °C temperature resistant. Neutral/Type 1 glass acc. to USP/EP. With Retrace code (Batch identification). Certificate available via the Internet. The wide neck is ideal for any application with powders or granulates, giving easier filling and emptying. With PP screw cap and pouring ring (autoclavable and temperature resistant up to 140 °C). With improved quick release cap which allows the bottle to be easily opened and closed with a minimum of turns.

DWK Life Sciences

Nominal capacity	Ø	Height	Thread	PK	Cat. No.
ml	mm	mm			
250	95.0	105.0	GLS 80	1	9.071 896
500	101.0	152.0	GLS 80	1	9.284 510
1000	101.0	222.0	GLS 80	1	9.284 511
2000	136.0	252.0	GLS 80	1	9.284 512
3500	160.0	271.0	GLS 80	1	9.071 966
5000	182.0	314.0	GLS 80	1	9.284 513
10000	227.0	389.0	GLS 80	1	9.284 514
20000	288.0	484.0	GLS 80	1	9.284 515



### LLG-Wide-mouth bottles, with screw cap, LDPE

Natural, translucent. Thick-walled. Ideal for taking, storing and transporting samples of liquids, pastes and granulated products. Ideal for liquids, pastes and granulates.

LLG Labware

Nominal capacity	Ø	Height	Thread Ø	PK	Cat. No.
ml	mm	mm	mm		
50	39.0	76.0	32	50	9.073 510
100	48.0	93.5	32	20	9.073 511
250	64.0	120.0	40	10	9.073 512
500	77.0	154.0	50	10	9.073 513
1000	95.0	205.0	65	4	9.073 514
2000	120.0	247.0	65	1	9.073 516



### Wide-mouth bottles, PE, graduated



Kartell S.p.A.

Will withstand considerable pressure before rupturing. Secured by tagging points on bottle and PP cap. Confidential notes can be placed in the space between insert sealing plug and cap. Food-safe according to EC Regulation 1935/2004 and EC Regulation 10/2011.

Nominal capacity	Ø	Neck int. Ø	Height	PK	Cat. No.
ml	mm	mm	mm		
50	40.0	24.0	77.0	1	9.072 950
100	48.0	24.0	89.0	1	9.072 951
250	61.0	34.5	126.0	1	9.072 952
500	75.0	34.5	158.0	1	9.072 953
1000	93.0	45.0	200.0	1	9.072 954
2000	115.0	45.0	247.0	1	9.072 955



### Wide-mouth bottles without closure, series 303, LDPE

Natural, translucent. Thick-walled. Ideal for taking, storing and transporting samples of liquids, pastes and granulated products.

Kautex Textron GmbH

**Please order closure separately.**

Nominal capacity	Ø	Height	Thread Ø	PK	Cat. No.
ml	mm	mm	mm		
50	39.0	76.0	32	1	9.072 981
100	48.0	93.5	32	1	9.072 982
200	59.0	114.0	40	1	9.072 983
250	64.0	120.0	40	1	9.072 984
300	67.5	128.0	40	1	9.072 985
500	77.0	154.0	50	1	9.072 986
750	88.0	173.0	50	1	9.072 987
1000	95.0	205.0	65	1	9.072 988
1500	108.0	226.0	65	1	9.072 989
2000	120.0	247.0	65	1	9.072 990

### Caps for wide-mouth bottles, LDPE

Kautex Textron GmbH

Thread Ø	For bottles	PK	Cat. No.
mm	ml		
32	50/100	1	6.291 537
40	200/250/300	1	6.291 538
50	500/750	1	6.291 539
65	1000/1500/2000	1	6.291 540



### Wide-mouth bottles, series 303, PP

Kautex Textron GmbH



Round, Natural without closure. With approximate graduations. Ideal for liquids, pastes and granulates. For taking samples, sending specimens and as transport containers. Can be filled with hot substances. Autoclavable to max. 121 °C. **With screw closure. Note:** Before autoclaving, unscrew closure and set lightly upside down on the container. Do not screw the closure down.

Nominal capacity	Ø	Height	Thread Ø	PK	Cat. No.
ml	mm	mm	mm		
100	48.5	94.0	32	1	6.287 813
250	64.5	121.0	40	1	6.287 814
500	77.5	155.0	50	1	6.287 815
1000	96.0	205.0	65	1	6.287 816



### Wide-mouth bottle Nalgene™ Economy, HDPE, with screw cap, PP

Economical, ruggedly constructed bottle. Guaranteed leakproof for safe sampling, shipping and storage. Translucent bottle allows viewing of liquid level. EPA-specified sample bottle material for a wide variety of inorganic compound and elemental analyses.

Thermo Elect.LED

Nominal capacity	Cap size	PK	Cat. No.
ml	mm		
30	28	72	9.103 228
60	28	72	9.103 229
125	38	72	9.103 230
250	43	72	9.103 231
500	53	48	9.103 232
1000	63	24	9.103 233



### Wide-mouth bottles Nalgene™, PPCO, with screw cap, PP



Transparent. Rigid wall. For general laboratory use.

- Autoclavable (cap should be unscrewed before autoclaving)
- Leakproof
- Withstands temperatures up to 121 °C

Thermo Elect.LED

Nominal capacity	Ø	Neck int. Ø	Height	Cap size	PK	Cat. No.
ml	mm	mm	mm	mm		
30	34.0	21.0	63.0	28	12	9.103 248
60	39.0	21.0	86.0	28	12	9.103 249
125	50.0	28.0	99.0	38	12	9.103 250
250	61.0	33.0	131.0	43	12	9.103 251
500	73.0	44.0	168.0	53	12	9.103 252
1000	91.0	53.0	199.0	63	6	9.103 253





### Caps for wide-mouth reagent bottles, PP

Guarantees the functionality and the tightness of the bottle to protect the contents.

Kautex Textron GmbH

**Type a) Screw cap, black** with 1.5 mm PE foam lining. Ensures that the bottle is tightly and safely sealed. **Type b) Tamper-evident cap, blue**, with conical seal and tamper-evident ring. Immediately indicates unauthorised opening. Perfect for determining whether the cap has been removed. **Type c) Tamper-evident cap, red**, with PE foam lining and tamper-evident ring. Immediately indicates unauthorised opening. Perfect for determining whether the cap has been removed.

Type	For bottles ml	Colour	Thread external diam. mm	PK	Cat. No.
a	100	black	32	1	9.072 895
a	250, 350	black	45	1	9.072 896
a	500, 750, 1000	black	54	1	9.072 897
a	1500, 2500, 4000	black	80	1	9.072 898
b	50	blue	28	1	9.072 904
b	100	blue	32	1	9.072 092
b	250, 350	blue	45	100	6.276 160
b	1500, 2500, 4000	blue	80	1	9.072 893
c	50	red	28	1	9.072 899
c	100	red	32	1	9.072 900
c	250, 350	red	45	1	9.072 901
c	500, 750, 1000	red	54	1	9.072 902
c	1500, 2500, 4000	red	80	1	9.072 903



### Kegs, wide mouth, HDPE, with UN-approval

White, with red lid.

A. Johnen Verpackungen

- With UN marking
- Food safe

Nominal capacity	PK	Cat. No.
I		
4	1	9.050 020
6	1	9.050 021
10	1	9.050 019
15	1	9.050 022
20	1	9.050 018
26	1	9.050 023

### Narrow-mouth bottles without closure, soda-lime glass, brown, PP 28

With PP (Pilferproof) 28 neck finish.

RIXIUS AG

**Please order closures separately.**

Nominal capacity ml	Height mm	Thread	PK	Cat. No.
30	69.0	PP 28	100	9.070 199
50	81.0	PP 28	99	9.070 201
100	96.0	PP 28	56	9.070 202
250	136.0	PP 28	39	9.070 203
500	161.0	PP 28	20	9.070 205
1000	205.5	PP 28	14	9.070 204



### Narrow-mouth bottles without closure, soda-lime glass, brown

DIN 5090. Round thread neck in accordance with DIN 168.

RIXIUS AG

**Please order closure separately.**

Nominal capacity ml	Height mm	Thread	PK	Cat. No.
100	116.5	GL 22	56	6.287 789
200	143.0	GL 22	63	6.272 904
250	148.5	GL 22	42	6.287 790
500	176.5	GL 25	35	6.287 792
1000	218.3	GL 28	20	6.287 791





**Narrow-mouth bottles, soda-lime glass, clear**

DIN 5090. Round thread neck in accordance with DIN 168.

RIXIUS AG

Please order caps separately.



Nominal capacity	Height	Thread	PK	Cat. No.
ml	mm			
100	117.0	GL 22	72	6.287 783
250	148.5	GL 22	42	6.287 784
500	183.7	GL 25	35	6.287 785
1000	218.3	GL 28	20	6.287 786

**Screw caps for narrow-mouth bottles, PP/LDPE**

PP cap with LDPE seal.

Klett-Kunststofftechnik

Thread	Sealing of closure	For bottles	Colour	PK	Cat. No.
		ml			
GL 18	LDPE	30/50	Black	1	9.072 160
GL 22	LDPE	100/250	Black	1	9.072 161
GL 25	LDPE	500	Black	1	9.072 162
GL 28	LDPE	1000	Black	1	9.072 163



**Caps for narrow-mouth reagent bottles, PP**

Immediately indicates unauthorised opening. Perfect for determining whether the cap has been removed. **A) Tamper-evident cap**, blue, with conical seal and tamper-evident ring.

Kautex Textron GmbH

**B) Tamper-evident cap**, red, with PE foam lining and tamper-evident ring. **C) Tamper-evident cap**, white/red, with push and turn function, tamper-evident ring, conical seal and degassing membrane. **D) Tamper-evident cap**, white/blue, with push and turn function, conical seal and tamper-evident ring. **without Fig.) Tamper-evident cap**, red, degassing cap, with conical gasket and degassing membrane.



Type	Thread Ø	Colour	PK	Cat. No.
	mm			
A	32	Blue	1	9.072 041
A	45	Blue	1	9.072 862
B	32	Red	1	9.072 863
C	32	White/red	1	9.072 867
D	32	White/blue	1	9.072 866
	32	Red	1	9.072 905

**LLG-Narrow-mouth bottles, LDPE, economy pack**

Made of LDPE in natural colour. Suitable for filling, storing or transporting liquids, powders or granulates. With screw cap.

LLG Labware

- Good chemical resistance
- Leak-proof

Nominal capacity	Ø	Height	Thread Ø	PK	Cat. No.
ml	mm	mm	mm		
50	37.0	78.0	18	50	9.073 500
100	47.0	105.0	18	20	9.073 501
250	63.0	119.0	25	10	9.073 502
500	78.0	152.0	25	10	9.073 503
1000	96.0	206.0	28	4	9.073 504
2000	120.0	264.0	28	1	9.073 505



**Narrow-mouth bottles without closure, series 301, LDPE**

Natural. Round bottle. Tall, narrow form, leakproof. Easy to handle. Also available with dropper cap or spray cap.

Kautex Textron GmbH

Please order closure separately.

Nominal capacity	Ø	Height	Thread Ø	PK	Cat. No.
ml	mm	mm	mm		
10	26.0	46.5	14	1	9.072 741
20	31.5	56.5	14	1	9.072 742
30	33.5	68.5	14	1	9.072 743
50	37.5	86.0	18	1	9.072 745
100	47.5	105.0	18	1	9.072 748
200	57.5	133.0	18	1	9.072 751
250	61.3	140.0	25	1	9.072 750
500	75.0	177.0	25	1	9.072 752
1000	97.5	223.5	28	1	9.072 755





### Screw caps for narrow-mouth bottles series 301/302/310, LDPE

Natural. Kautex Textron GmbH

Cap size	For bottles	Colour	PK	Cat. No.
mm	ml			
14	10,20,30	Natural	100	9.072 770
18	50,100,200	Natural	100	9.072 772
25	250,500	Natural	1	6.291 535
28	1000,2000	Natural	1	6.291 536

### Spray caps for narrow-mouth bottles, series 301/302/310, LDPE

Natural. Kautex Textron GmbH

Cap size	For bottles	Colour	PK	Cat. No.
mm	ml			
18	100	Natural	1	9.223 110
18	200	Natural	1	9.223 111
25	250	Natural	1	9.223 112
25	500	Natural	1	9.223 113
28	1000	Natural	1	9.223 114
28	2000	Natural	1	9.223 120

\* with PVC-Nozzle, red

### Dropping caps with captive cap, for narrow-mouth bottles, series 301/302/310, LDPE

Natural. With red PVC captive cap. Kautex Textron GmbH

Cap size	For bottles	PK	Cat. No.
mm	ml		
14	10,20,30	100	9.073 307
18	50,100,200	100	9.073 308
18	50,100,200	1	9.073 315
25	250,500	100	9.073 309
28	1000,2000	100	9.073 316

### Caps for dropping bottles, PVC

With retaining band. Kautex Textron GmbH

Colour	PK	Cat. No.
Red	1	9.073 320
Red	100	9.073 317

**Narrow-mouth reagent bottles without closure, series 308/310, HDPE, UN-approved**

UN-approved (only with the fitting UN-approved closures: 9.073 379 - 381). Square except 500 ml size which is round and has an outside diameter of 77 mm. Suitable for transporting hazardous liquids. Leakproof. **Please order closure separately.**

*Kautex Textron GmbH*

Nominal capacity	Height	Thread	PK	Cat. No.
ml	mm			
500	176.5	GL 45	120	9.073 335
1000	211.8	GL 45	64	9.073 336
2500	282.0	GL 45	26	9.073 337
500	176.5	GL 45	120	9.073 338
1000	211.8	GL 45	64	9.073 339
2500	282.0	GL 45	26	9.073 352



**Light caps for narrow-mouth reagent bottles, series 310, UN-approved**

*Kautex Textron GmbH*

Thread Ø	Sealing of closure	Colour	PK	Cat. No.
mm				
32	Liner, PTFE	White	1	9.073 480
45	Liner, PTFE	Black	1	9.073 379



**Bell caps for narrow-mouth reagent bottles, series 310, UN-approved**

Tamper-evident ring, red, cup-shaped PTFE liner.

*Kautex Textron GmbH*

Thread Ø	Sealing of closure	Colour	PK	Cat. No.
mm				
45	Liner, PTFE	Black	1	9.073 380



**Aluminium bottles, with UN approval**

*Bürkle GmbH*



The aluminium bottle is particularly suited for storing, transport or sending substances and reference samples which have to be stored completely unaltered.

- With UN approval (60 - 5600 ml)
- Pure aluminium (AL99.5 material)
- PP screw cap with internal aluminium seal included

Nominal capacity	Ø	Height	PK	Cat. No.
ml	mm	mm		
38	35.0	70.0	1	9.072 168
3000	161.0	215.0	1	6.290 528
60	40.0	88.0	10	6.291 403
120	57.0	97.0	10	6.291 404
300	57.0	160.0	10	6.291 405
600	74.0	192.0	10	6.291 406
1200	88.0	248.0	10	6.291 407
3000	161.0	215.0	10	6.291 408
5600	161.0	340.0	10	6.291 409



**Screw caps, for aluminium bottles**

*Bürkle GmbH*

For bottles	Colour	PK	Cat. No.
ml			
38	White	1	6.269 841
60-1200		1	6.201 285





### Square shape laboratory bottles, DURAN®, with retrace code

Easy to use due to square shape, highly stable, good stackability - proven DURAN® properties give a space saving of 44 % in comparison with standard laboratory bottles (example applies to 100 ml bottles). With pouring ring and PP screw cap. Temperature (max.): 140 °C.

DWK Life Sciences

Advantages:

- Proven DURAN® properties
- Excellent chemical resistance
- Low coefficient of expansion
- Autoclavable. Before autoclaving, unscrew closure and set lightly on the container. Do not tighten the closure
- Freezer limit: -40 °C. Only freeze the bottle by laying at an angle and if maximum ¾ full
- Ergonomic shape
- Very stable
- With Retrace code (Batch identification). Certificate available via the Internet
- Neutral glass/Type I glass acc. to USP/EP and JP

Nominal capacity ml	Height with cap mm	Thread	PK	Cat. No.
100	113.0	GL 32	1	9.072 076
250	148.0	GL 45	1	9.072 077
500	186.0	GL 45	1	9.072 078
1000	227.0	GL 45	1	9.072 079



### Square bottles, soda-lime glass, amber

- PP screw cap
- LDPE pouring ring
- Space-saving square design

BRAND GMBH + CO.KG

Nominal capacity ml	Dimensions (WxDxH)	Thread	PK	Cat. No.
100	50 x 50 x 125 mm	GL 32	1	9.284 541
250	65 x 65 x 160 mm	GL 32	1	9.284 542
500	80 x 80 x 195 mm	GL 32	1	9.284 543
1000	95 x 95 x 230 mm	GL 45	1	9.284 544



### Tamper-evident caps for soda-lime square screw cap bottles, PP

Blue. For square screw cap bottles (soda-lime glass). Type H: Narrow-neck, with high form thread Type K: Wide-necked, with short form thread

DWK Life Sciences

Type	Thread	Dimension (ØxH)	Colour	PK	Cat. No.
H	GL 45	60 x 35 mm	Blue	1	9.072 042
K	GL 45	58 x 27 mm	Blue	1	9.072 093
K	GL 54	69 x 29 mm	Blue	1	9.072 094
K	GL 60	78 x 29 mm	Blue	1	9.072 095



### Wide-mouth bottles, PE, square, graduated, with screw cap

Kartell S.p.A.



Space saving bottles, ideal for long term storage of samples. With PP screw cap. Approximate graduations allow reproducible filling without the use of cylinders/beakers. Easy grip caps can be wired down for security. Food-safe according to EC Regulation EC Regulation 10/2011.

Nominal capacity ml	Division ml	Dimensions (WxDxH)	PK	Cat. No.
25	5	32 x 34 x 52 mm	1	9.072 943
50	10	38 x 38 x 70 mm	1	9.072 944
100	20	42 x 48 x 90 mm	1	9.072 945
250	50	57 x 60 x 110 mm	1	9.072 946
500	100	70 x 80 x 138 mm	1	9.072 947
1000	100	80 x 103 x 176 mm	1	9.072 948
2000	100	100 x 134 x 210 mm	1	9.072 949

**Square wide-mouth containers without closure, series 310, PETG**

Without closure. Crystal clear, ideal for presenting products in their true colours. The wide-mouth enables easy filling and cleaning.

*Kautex Textron GmbH*

**Please order closures separately.**

Nominal capacity	Dimensions (WxDxH)	Thread ext. Ø	Neck int. Ø	PK	Cat. No.
ml		mm	mm		
50	38.5 x 38.5 x 60.5 mm	32	23.0	1	9.073 395
100	46.0 x 46.0 x 71.0 mm	40	31.0	1	9.073 396
200	59.5 x 59.5 x 88.0 mm	50	41.0	1	9.073 397
500	80.5 x 80.5 x 108.0 mm	65	54.0	1	9.073 398
1000	97.0 x 97.0 x 143.0 mm	80	69.0	1	9.073 399
2000	122.0 x 122.0 x 187.0 mm	80	69.0	1	9.073 400



**Square, wide-mouth containers without closure, series 310, PVC**

Rigid, Amber or Clear PVC containers. Universal container for storage, sample dispatch and transport. The clear version is ideal for colour-fast product presentation. The amber version is suitable for light sensitive products.

*Kautex Textron GmbH*

**Please order screw caps separately.**

Nominal capacity	Dimensions (WxDxH)	Thread ext. Ø	PK	Cat. No.
ml		mm		
50	38.0 x 38.0 x 57 mm	32	1	9.073 050
100	46.0 x 46.0 x 71 mm	40	1	9.073 051
200	59.5 x 59.5 x 87 mm	50	1	9.073 052
300	67.5 x 67.5 x 94 mm	50	1	9.073 053
500	80.5 x 80.5 x 108 mm	65	1	9.073 054
750	91.5 x 91.5 x 120 mm	80	1	9.073 055
1000	97.5 x 97.5 x 145 mm	80	1	9.073 056
2000	122.0 x 122.0 x 187 mm	80	1	9.073 057
50	38.0 x 38.0 x 54 mm	32	1	9.073 060
100	46.0 x 46.0 x 71 mm	40	1	9.073 061
200	59.5 x 59.5 x 87 mm	50	1	9.073 062
300	67.5 x 67.5 x 94 mm	50	1	9.073 063
500	80.5 x 80.5 x 108 mm	65	1	9.073 064
750	91.5 x 91.5 x 120 mm	80	1	9.073 065
1000	97.5 x 97.5 x 143 mm	80	1	9.073 066
2000	122.0 x 122.0 x 187 mm	80	1	9.073 067



**Square reagent bottles without closure, HDPE**

Natural or white. Wide neck. UN approved for solid materials. 50 ml and 350 ml without UN approval.

*Kautex Textron GmbH*

**Please order closure separately.**

Nominal capacity	Dimensions (WxDxH)	Thread ext. Ø	PK	Cat. No.
ml		mm		
50	36 x 36 x 88.5 mm	28	1	9.072 869
100	45 x 45 x 101.0 mm	32	1	9.072 870
250	59 x 59 x 128.0 mm	45	1	9.072 871
350	60 x 60 x 164.0 mm	45	1	9.072 877
500	75 x 75 x 161.0 mm	54	1	9.072 872
750	83 x 83 x 185.0 mm	54	1	9.072 878
1000	85 x 85 x 212.0 mm	54	1	9.072 873
1500	108 x 108 x 209.0 mm	80	1	9.072 874
2500	122 x 122 x 258.0 mm	80	1	9.072 875
4000	142 x 142 x 294.0 mm	80	1	9.072 876
50	36 x 36 x 88.5 mm	28	1	9.072 879
100	45 x 45 x 101.0 mm	32	1	9.072 880
250	59 x 59 x 128.0 mm	45	1	9.072 881
500	75 x 75 x 161.0 mm	54	1	9.072 882
750	83 x 83 x 185.0 mm	54	1	9.072 883
1000	85 x 85 x 212.0 mm	54	1	9.072 884
1500	108 x 108 x 209.0 mm	80	1	9.072 885
2500	122 x 122 x 258.0 mm	80	1	9.072 886
4000	142 x 142 x 294.0 mm	80	1	9.072 887





### LLG-Wash bottles, narrow neck, PE

Made of translucent polyethylene. The dispensing tip can be cut back to regulate the flow rate. The delivery tube is adjustable in height and the dispensing cap can be unscrewed for filling.

LLG Labware

Nominal capacity	Colour	PK	Cat. No.
<b>ml</b>			
100	Natural	10	9.223 509
250	Natural	10	9.223 510
500	Natural	10	9.223 511
1000	Natural	10	9.223 512



### Wash bottles Nalgene™, LDPE

LDPE bottle and suction tube. PP screw cap and suction tube support moulded as one piece.

Thermo Elect.LED

Nominal capacity	Cap size	PK	Cat. No.
<b>ml</b>			
	<b>mm</b>		
125	24	6	4.678 661
250	24	6	4.678 658
500	28	6	4.678 659
1000	38-430	4	4.678 660



### Wide-neck wash bottles, Nalgene™ Unitary™, Type 2402, LDPE, with screw cap, PP

LDPE Bottle with leakproof PP screw cap. Wide mouth neck. Bottle and dispensing jet are moulded in one piece.

Thermo Elect.LED

Nominal capacity	Thread Ø	PK	Cat. No.
<b>ml</b>			
	<b>mm</b>		
125	24	1	9.223 236
250	38	1	9.223 237
500	38	1	9.223 238
750	38	1	9.223 239
1000	43	1	9.223 240



### LLG-Safety wash bottles, LDPE

Manufactured from LDPE and with the safety label printed on the wash bottle in accordance with regulation (EC) No. 1272/2008 (GHS).

LLG Labware

- Colour coded cap and bottle for easy and quick recognition of the bottle content
- Dispensing tube designed to optimize backflow and turbulence-free operation
- Permanent printing on the body of safety symbols in acc. with GHS, as well as of chemical formula, CAS number, hazard pictogram, signal word, hazard statements and NFPA code
- Chemical name and Warning texts in German, English, French and Spanish

Imprint text	Nominal capacity	Colour	Imprint language	PK	Cat. No.
<b>ml</b>					
Acetone	500	Red	DE/UK/FR/ES	1	9.223 504
Distilled water	500	Blue	DE/UK/FR/ES	1	9.223 505
Ethanol	500	Green	DE/UK/FR/ES	1	9.223 506
Isopropanol	500	Yellow	DE/UK/FR/ES	1	9.223 507
Methanol	500	Orange	DE/UK/FR/ES	1	9.223 508
Acetone	500	Red	DE/UK/FR/ES	10	6.291 413
Distilled water	500	Blue	DE/UK/FR/ES	10	6.291 414
Ethanol	500	Green	DE/UK/FR/ES	10	6.291 415
Isopropanol	500	Yellow	DE/UK/FR/ES	10	6.291 416
Methanol	500	Orange	DE/UK/FR/ES	10	6.291 417

### VITsafe™ Safety wash bottles, narrow neck, PP/LDPE

Bottles made from LDPE, spray tube from PP. Safer due to the durable safety imprint in accordance to Directive (EC) No. 1272/2008 (GHS), as well as with all important information: Material name in German, English, French and Spanish, Chemical formula, CAS No., hazard pictogram, signal word, Risk phrases (H phrases), safety phrases (P phrases), as well as NFPA Code. Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube. Practically no leakage or dripping with the VENT-CAP screw cap, the design of which prevents almost all static overpressure.

VITLAB GmbH



Imprint text	Nominal capacity	Thread	Colour closure	Imprint language	PK	Cat. No.
	<b>ml</b>					
Acetone	250	GL 25	Red	DE/UK/FR/ES	1	9.223 345
Acetone	500	GL 25	Red	DE/UK/FR/ES	1	9.223 351
Acetone	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 360
Acetonitrile	500	GL 25	Red	DE/UK/FR/ES	1	7.058 640
Distilled water	250	GL 25	Blue	DE/UK/FR/ES	1	9.223 340
Distilled water	500	GL 25	Blue	DE/UK/FR/ES	1	9.223 346
Distilled water	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 355
Ethanol	250	GL 25	Orange	DE/UK/FR/ES	1	9.223 344
Ethanol	500	GL 25	Orange	DE/UK/FR/ES	1	9.223 350
Ethanol	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 359
Ethyl acetate	250	GL 25	Red	DE/UK/FR/ES	1	9.223 343
Ethyl acetate	500	GL 25	Red	DE/UK/FR/ES	1	9.223 349
Ethyl acetate	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 358
Acetic acid	500	GL 25	Red	DE/UK/FR/ES	1	7.079 737
Isopropanol	250	GL 25	Yellow	DE/UK/FR/ES	1	9.223 342
Isopropanol	500	GL 25	Yellow	DE/UK/FR/ES	1	9.223 348
Isopropanol	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 357
Methanol	250	GL 25	Green	DE/UK/FR/ES	1	9.223 341
Methanol	500	GL 25	Green	DE/UK/FR/ES	1	9.223 347
Methanol	1000	GL 32	Red	DE/UK/FR/ES	1	9.223 356
Methylethylchloride	500	GL 25	Transparent	DE/UK/FR/ES	1	7.078 722
Methyl ethyl ketone (MEK)	500	GL 25	Red	DE/UK/FR/ES	1	9.223 354
N,N-Dimethylformamide	500	GL 25	Red	DE/UK/FR/ES	1	6.401 458
Xylene	500	GL 25	Red	DE/UK/FR/ES	1	7.087 939
i-Hexane	500	GL 25	Red	DE/UK/FR/ES	1	7.009 310
Heptane	500	GL 25	Red	DE/UK/FR/ES	1	6.073 505
Tetrahydrofuran (THF)	500	GL 25	Red	DE/UK/FR/ES	1	7.087 940
Toluene	500	GL 25	Red	DE/UK/FR/ES	1	7.087 938
Pentane	500	GL 25	Red	DE/UK/FR/ES	1	6.242 784

### Dropper bottles, HDPE

Natural. Highly suitable for adhesives and other liquids that can be finely dispensed. **HDPE combination closure with screw-on dropping tip (Cat. No. 9.073 313).** Please order separately.

Kautex Textron GmbH

Nominal capacity	PK	Cat. No.
<b>ml</b>		
10	1	9.073 310
25	1	9.073 311
50	1	9.073 312



### Cap for dropping bottles, HDPE

For bottles 9.073 310 to 9.037 312 series.

Kautex Textron GmbH

For bottles	PK	Cat. No.
<b>ml</b>		
10/25/50	1	9.073 313



### Spray bottles with pump vapouriser

Spray bottles (HDPE) with pump vapouriser (PP, stainless steel) and safety cap for the pump. Liquids can be finely vapourised at the push of a button in an environmentally compatible way. The transparent bottles make identification of contents easy. The protective cover prevents unintentional pressing of the pump and acts as a dust cover.

Bürkle GmbH

Nominal capacity	Height with cap	PK	Cat. No.
<b>ml</b>	<b>mm</b>		
20	85	1	6.254 292
50	110	1	6.801 696
100	161	1	6.300 066
250	222	1	6.300 067





### Spray bottles LaboPlast®, PE/PP

Chemical resistant to a large extend. Trigger-action spray pump with continuously adjustable spray nozzle.

Bürkle GmbH

- Parts in contact with media made of PP, PE and stainless steel
- Nozzle diameter 0.6mm; nozzle is continuously adjustable
- Amount sprayed per stroke: 1.2 ml ±0.1 ml

Nominal capacity	Dimension (ØxH)	Neck int. Ø	PK	Cat. No.
ml		mm		
250	60 x 220 mm	18	1	9.223 152
500	75 x 240 mm	18	1	9.223 155
1000	98 x 295 mm	18	1	9.223 160



### Spray bottle Turn'n'Spray with overhead valve, PE/PP

Spraying upwards overhead is not possible with standard spray bottles. As soon as the suction tube is no longer immersed in liquid, you can't spray any more. Not so with our overhead spray bottle, Turn'n'Spray. It features a special technology that allows you to spray from any position. That means you can spray practically and conveniently from any angle and reach hard-to-access places easily and without straining. The high-quality, refillable spray bottle can be used again and again.

Bürkle GmbH

- Uninterrupted spraying, even upside down
- Parts in contact with media made of PP, PE, silicon and stainless steel
- Nozzle diameter 0.6mm; nozzle is continuously adjustable
- Amount sprayed per stroke: 1.2 ml ±0.1 ml



Nominal capacity	Neck int. Ø	Height with cap	PK	Cat. No.
ml	mm	mm		
250	18	220	10	6.291 410
500	18	240	10	6.291 411
1000	18	295	10	6.291 412



### Pressure atomizer LaboPlast®, HDPE

The pressure sprayer is ideal to spray a wide range of liquids uniformly. The pressurised spray has a working pressure of 4 bar. Extension for spray lance 30 cm available as accessory.

Bürkle GmbH

- Wetted parts PE, PP, glass-fibre reinforced PA, V2A, FKM
- Bottle made of HDPE
- With short spray nozzle
- Left-handed and right-handed pistol control
- Adjustable spray jet
- Graduation up to 1500 ml
- Temperature max. 30 °C

Nominal capacity	Dimension (ØxH)	Neck int. Ø	PK	Cat. No.
ml		mm		
1500	142 x 315 mm	45	1	9.223 162



### Pressure sprayer Turn'n'Spray

The pressure sprayer is ideal to spray a wide range of liquids uniformly. The practical 360° spray function allows you to spray overhead. The adjustable spray jet, with a nozzle diameter of 0.8 mm, can be adjusted from a fine spray mist to a powerful jet. Extension for spray lance 30 cm available as accessory.

Bürkle GmbH

- Wetted parts HDPE, PP, FKM, V4A
- Plastic container made of HDPE
- Safety valve to compensate overpressure, max. 4 bar

Nominal capacity	Height with cap	PK	Cat. No.
ml	mm		
1500	305	1	4.670 813



### Spray bottles

White or transparent bottles. Sprayer insert with stable, smooth pump trigger and adjustable spray nozzle, which can be regulated from the finest mist (nebulising) to a precise liquid jet. Range: approx. 3-4 meters. Ideal for spraying detergents or disinfectants, especially into difficultly accessible areas, as well as applications in thin layer chromatography.

VITLAB GmbH

Nominal capacity	PK	Cat. No.
ml		
400	1	7.008 989
850	1	7.008 990
1000	1	7.659 025
1000	1	6.281 023



### LLG-Funnel, borosilicate glass 3.3

With short stem. With a cone angle of 60° offers an optimum fit for all filter sizes. Ideal for easy filling of laboratory bottles and filtration of liquids. High temperature and chemical resistance.

LLG Labware

Funnel Ø	Height	Stem Ø	Filter Ø	Standard	PK	Cat. No.
mm	mm	mm				
40	70	6	55 ... 70 mm		1	9.251 200
60	100	8	70 ... 90 mm		1	9.251 201
80	140	8	125 ... 150 mm		1	9.251 202
100	180	10	150 ... 185 mm	DIN ISO 4798	1	9.251 203
125	210	16	185 ... 240 mm	DIN ISO 4798	1	9.251 204
150	250	16	240 ... 270 mm	DIN ISO 4798	1	9.251 205

\* according to DIN ISO 4798



### LLG-Powder funnel with NS cone, borosilicate glass 3.3

Powder funnel made of borosilicate glass 3.3 with NS cone.

LLG Labware

Funnel Ø	Ground size	PK	Cat. No.
mm			
60	NS14/23	2	4.686 180
80	NS19/26	2	4.686 181
100	NS24/29	2	4.686 182
120	NS29/32	2	4.686 183



### Funnels, DURAN®

DIN ISO 4798. With short stem. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

DWK Life Sciences

Standard: DIN ISO 4798

Funnel Ø	Height	Stem Ø	Length stem	Filter Ø	PK	Cat. No.
mm	mm	mm	mm			
35	60	6	35	45 ... 55 mm	1	9.251 123
45	80	6	45	55 ... 70 mm	1	9.251 128
55	95	8	55	70 ... 90 mm	1	9.251 133
70	125	8	70	110 ... 125 mm	1	9.251 138
80	140	10	80	125 ... 150 mm	1	9.251 141
100	180	10	100	150 ... 185 mm	1	9.251 146
120	210	16	120	185 ... 240 mm	1	9.251 023
150	265	16	150	240 ... 270 mm	1	9.251 157
180	290	20	150	270 ... 320 mm	1	9.251 036
200	325	26	175	320 ... 385 mm	1	9.251 161
300	409	30	175	500 ... 500 mm	1	9.251 169





### Powder funnels, DURAN®

With short, wide stem.

DWK Life Sciences

Funnel Ø	Height	Stem Ø	Length stem	PK	Cat. No.
mm	mm	mm	mm		
55	60	20	30	1	6.901 149
70	72	22	30	1	7.021 151
80	79	24	30	1	7.021 152
100	94	26	30	1	7.021 153
120	105	34	30	1	9.251 323
160	140	35	30	1	9.251 332
200	170	40	30	1	9.251 338



### LLG-Funnels, PP



LLG Labware

Made of transparent polypropylene. Ideal for easy filling of laboratory bottles and filtration of liquids.

- Good temperature and chemical resistance
- Autoclavable at 121 °C and 1.1 bar for 30 minutes

Funnel Ø	Stem Ø	Length stem	Filter Ø	PK	Cat. No.
mm	mm	mm			
40	6	40	55 ... 70 mm	10	9.251 185
60	8	60	70 ... 90 mm	10	9.251 186
80	8	80	125 ... 150 mm	10	9.251 187
100	10	100	150 ... 185 mm	10	9.251 188
120	16	120	185 ... 240 mm	10	9.251 189
150	16	150	240 ... 270 mm	10	9.251 190



### LLG-Fast filtration funnels with internal ribs, PP



LLG Labware

Clear, virgin polypropylene, autoclavable at 121 °C and 1.1 bar for 30 minutes. The external ribs prevent airlock and back pressure. The internal helicoidal rib prevents filter papers from sticking and increases filtration speed.

Funnel Ø	Stem Ø	Length stem	Filter Ø	PK	Cat. No.
mm	mm	mm			
40	6	40	55 ... 70 mm	10	9.251 191
60	8	60	70 ... 90 mm	10	9.251 192
80	8	80	125 ... 150 mm	10	9.251 193
80	9	150	125 ... 150 mm	10	9.251 197
100	10	100	150 ... 185 mm	10	9.251 194
120	16	120	185 ... 240 mm	10	9.251 195
150	16	150	240 ... 270 mm	10	9.251 196



### Funnels, PP



VITLAB GmbH

Transparent. Rapid flow due to a steep 60° angle. Practical handle with loop for hanging. Food-safe product according to regulation (EU) No. 10/2011.

Nominal capacity	Funnel Ø	Height	Stem Ø	Length stem	PK	Cat. No.
ml	mm	mm	mm	mm		
5	30	45	2	25	1	9.251 602
6	30	47	4	25	1	9.251 605
14	40	65	4	35	1	9.251 610
32	50	85	7	43	1	9.251 615
88	75	108	7	55	1	9.251 620
222	100	155	8	77	1	9.251 625
342	120	180	11	90	1	9.251 630
817	150	220	15	95	1	9.251 635

### Barrel funnels, PP



VITLAB GmbH

Transparent. Rapid flow due to a steep 60° angle. Practical handle for hanging. Suitable for filling large amounts of liquids. Food-safe products according to regulation (EU) No. 10/2011. Sieve for 9251 640 and 9251 645 available (not approved as a food-safe article). Please order separately.

Nominal capacity ml	Dimensions funnel (ØxH)	PK	Cat. No.
1300	210 x 252 mm	1	9.251 640
3200	263 x 305 mm	1	9.251 645
12500	360 x 450 mm	1	9.251 650



9.251 640

### Powder funnels, PP



Kartell S.p.A.

Transparent. For transfer of powdered and granular substances.  
 - Rapid flow due to a steep 60° angle  
 - Autoclavable

Funnel Ø mm	Height mm	Stem Ø mm	Length stem mm	PK	Cat. No.
60	57	15	18	1	7.019 920
80	80	15	22	1	7.059 654
100	89	25	25	1	6.303 859
120	106	30	27	1	6.311 411
150	142	36	40	1	6.262 104
180	166	43	49	1	9.251 741



### Powder funnels, PP



Bürkle GmbH

Transparent. For safe filling of containers. Food safe.

Funnel Ø mm	Stem Ø mm	PK	Cat. No.
150	28	1	9.251 740
360	65	1	7.200 123



### Powder funnels with NS-cone, PP



VITLAB GmbH

Transparent. For multi-neck flasks, laterally flattened, suitable for standard joint necks of various sizes. Suitable for the filling of liquid or powdered reagents into a reaction flask, particularly multi-neck flasks, during a reaction. Food-safe product according to regulation (EU) No. 10/2011.

Funnel Ø mm	Height mm	Length stem mm	Ground size	PK	Cat. No.
40	75	17	NS14/23	1	9.251 814
50	95	23	NS19/26	1	9.251 819
75	135	30	NS29/32	1	9.251 829



### LLG-Funnel holder, PP

Manufactured from best quality polypropylene. Suitable to hold all types of laboratory funnels with diameters up to 150 mm. Two tapered wedges are provided to ensure firm grip on rods having diameters of 10-13 mm.

LLG Labware

To hold funnels piece	PK	Cat. No.
1	1	9.251 558





### LLG-Funnel holder, stainless steel

These funnel holders are suitable to hold all types of funnels with a diameter up to 150 mm. They can also accommodate separating funnels (up to 1000 ml). With or without bosshead.

LLG Labware

Description	Ø	PK	Cat. No.
	mm		
without bosshead	40	1	9.251 550
without bosshead	60	1	9.251 551
without bosshead	80	1	9.251 552
without bosshead	100	1	9.251 553
with bosshead	40	1	9.251 554
with bosshead	60	1	9.251 555
with bosshead	80	1	9.251 556
with bosshead	100	1	9.251 557



### Funnel stands LaboPlast®, PP

White, unbreakable, chemically resistant. For 2 or 4 funnels. Robust, heavy base provides good stability. Variable height adjustment up to 450 mm. Thanks to a magnet system, no clamping screws are necessary. The height of the funnel holder can be adjusted easily and flexibly with one hand. With 2 or 4 aperture reduction inserts for small funnels. Suitable for funnels with diam. 40 to 180 mm.

Bürkle GmbH

To hold funnels piece	Width mm	Depth mm	Height mm	PK	Cat. No.
2	140	300	480	1	9.069 922
4	150	550	500	1	9.069 924



### Watch glasses, DURAN®



DWK Life Sciences

- DIN 12341
- Flame-polished edges
- Autoclavable

Ø	PK	Cat. No.
mm		
40	1	9.263 424
50	1	9.263 432
60	1	9.263 434
80	1	9.263 441
100	1	9.263 446
125	1	9.263 452
150	1	9.263 457
200	1	9.263 461
250	1	9.263 466

### LLG-Crystallising dishes, borosilicate glass

Crystallising dishes with or without spout. DIN 12337/12338. Autoclavable.

LLG Labware

Nominal capacity ml	Dimension (ØxH)	PK	Cat. No.
20	40 x 25 mm	1	7.616 800
40	50 x 30 mm	1	6.228 031
60	60 x 35 mm	1	6.236 596
100	70 x 40 mm	1	6.233 757
150	80 x 45 mm	1	6.227 688
300	95 x 55 mm	1	6.205 104
500	115 x 65 mm	1	6.205 105
900	140 x 75 mm	1	6.236 597
2000	190 x 90 mm	1	6.236 598
3500	230 x 100 mm	1	6.236 599
20	40 x 25 mm	1	6.226 043
40	50 x 30 mm	1	7.616 171
60	60 x 35 mm	1	6.227 922
100	70 x 40 mm	1	6.228 387
150	80 x 45 mm	1	6.225 256
300	95 x 55 mm	1	6.803 567
500	115 x 65 mm	1	6.223 298
900	140 x 75 mm	1	6.206 856
2000	190 x 90 mm	1	6.803 371
3500	230 x 100 mm	1	6.231 072



### Crystallising dishes, DURAN®

- DIN 12338
- With spout
- Dishes with capacity of 100ml and above have labelling patch
- Glass Type I/neutral glass as per USP, EP and JP
- Autoclavable

DWK Life Sciences

Nominal capacity ml	Dimension (ØxH)	PK	Cat. No.
20	40 x 25 mm	1	9.144 024
40	50 x 30 mm	1	9.144 032
60	60 x 35 mm	1	9.144 034
100	70 x 40 mm	1	9.144 038
150	80 x 45 mm	1	9.144 041
300	95 x 55 mm	1	9.144 044
500	115 x 65 mm	1	9.144 049
900	140 x 75 mm	1	9.144 054
2000	190 x 90 mm	1	9.144 059
3500	230 x 100 mm	1	9.144 063



### LLG-Evaporating dishes, porcelain, low form

The evaporating dish is characterised by high thermal and chemical resistance. Suitable for a variety of laboratory applications. With practical spout and flat bottom.

LLG Labware

- Glazed
- According to DIN 12903
- Temperature resistant up to 900 °C

Nominal capacity ml	Dimension (ØxH)	PK	Cat. No.
10	50 x 10 mm	1	9.115 301
20	60 x 14 mm	1	9.115 302
28	75 x 15 mm	1	9.115 305
55	80 x 20 mm	1	9.115 303
110	100 x 25 mm	1	6.231 540
250	130 x 30 mm	1	9.115 304
450	160 x 40 mm	1	9.115 306
1100	200 x 55 mm	1	9.115 307
1750	250 x 55 mm	1	9.115 308



## Vessels/Dishes



### LLG-Evaporating dishes with round bottom, porcelain, medium form

Ideal for evaporating liquids or solvents. Glazed.

LLG Labware

- With spout
- Temperature resistant up to 900 °C

Nominal capacity	Dimension (ØxH)	PK	Cat. No.
ml			
10	40 x 16 mm	1	9.115 310
20	50 x 20 mm	1	9.115 311
30	63 x 25 mm	1	6.239 177
41	72 x 26 mm	1	9.000 150
60	80 x 32 mm	1	9.115 312
62	83 x 27 mm	1	9.000 151
110	96 x 30 mm	1	9.000 152
150	100 x 40 mm	1	9.115 313
240	127 x 42 mm	1	9.000 153
285	125 x 50 mm	1	9.115 314
420	154 x 50 mm	1	6.232 525
558	170 x 55 mm	1	9.000 154
700	170 x 74 mm	1	9.115 315
1000	200 x 80 mm	1	9.115 316



### LLG-Evaporating dishes with flat bottom, porcelain, medium form

Ideal for evaporating liquids or solvents. Glazed on the inside and outside.

LLG Labware

- With spout
- Temperature resistant up to 900 °C

Nominal capacity	Dimension (ØxH)	PK	Cat. No.
ml			
22	54 x 22 mm	1	7.970 673
62	70 x 30 mm	1	6.268 802
93	86 x 33 mm	1	6.251 474
154	98 x 40 mm	1	6.253 566
265	112 x 50 mm	1	6.262 379
330	126 x 53 mm	1	6.257 949
450	145 x 55 mm	1	6.269 244
620	151 x 63 mm	1	6.257 950
800	169 x 68 mm	1	6.269 245
1000	195 x 74 mm	1	6.241 820
2500	254 x 105 mm	1	7.971 013



### Evaporating basins, 18/10 steel

18/10 steel. Cylindrical.

BOCHEM Instrumente

Nominal capacity	Dimension (ØxH)	PK	Cat. No.
ml			
50	60 x 20 mm	1	9.000 470
75	70 x 20 mm	1	9.000 471
100	80 x 20 mm	1	9.000 472
125	75 x 35 mm	1	9.000 460
250	85 x 50 mm	1	9.000 461
500	110 x 55 mm	1	9.000 462



### Instrument trays, melamine resin

White, melamine resin. Autoclavable (121 °C)

P/S Kunststoffwerke

External dimensions (WxDxH)	Temperature resistance	Colour	PK	Cat. No.
190 x 150 x 20 mm	121 °C	White	1	7.608 352
240 x 180 x 20 mm	121 °C	White	1	9.200 324
270 x 210 x 20 mm	121 °C	White	1	9.200 327
300 x 150 x 20 mm	121 °C	White	1	9.200 328
300 x 190 x 20 mm	121 °C	White	1	7.055 383
360 x 240 x 20 mm	121 °C	White	1	9.200 335
430 x 290 x 20 mm	121 °C	White	1	9.200 345

**Instrument boxes, melamine resin**

Melamine resin. Base section is autoclavable (121 °C).  
**Please order lid separately.**

*P/S Kunststoffwerke*



External dimensions (WxDxH)	Temperature resistance	With lid	PK	Cat. No.
110 x 210 x 30 mm	121 °C	No	1	9.200 177
150 x 190 x 40 mm	121 °C	No	1	9.200 170
160 x 290 x 30 mm	121 °C	No	1	9.200 165
160 x 290 x 60 mm	121 °C	No	1	9.200 160
240 x 350 x 40 mm	121 °C	No	1	9.200 155
250 x 350 x 100 mm	121 °C	No	1	9.200 150

**Lids, PS, for instrument boxes**

*P/S Kunststoffwerke*



Width	Depth	Height	PK	Cat. No.
mm	mm	mm		
210	110	15	1	9.200 181
200	160	15	1	9.200 182
300	170	15	1	9.200 183
360	260	15	1	9.200 184

**Trays and bowls, PS**

Suitable for foodstuffs and general laboratory use. High impact polystyrene.

*Kartell S.p.A.*



External dimensions (WxDxH)	Internal dimensions (WxDxH)	PK	Cat. No.
201 x 151 x 21 mm	170 x 110 x 10 mm	1	6.233 344
303 x 151 x 21 mm	270 x 120 x 10 mm	1	6.225 141
353 x 252 x 21 mm	320 x 220 x 10 mm	1	6.224 952
254 x 254 x 21 mm	220 x 220 x 10 mm	1	6.206 152
201 x 151 x 41 mm	150 x 100 x 30 mm	1	6.224 986
303 x 151 x 42 mm	260 x 110 x 30 mm	1	6.225 054
353 x 253 x 41 mm	310 x 210 x 30 mm	1	6.225 055
252 x 252 x 42 mm	210 x 210 x 30 mm	1	6.231 216
202 x 151 x 81 mm	140 x 90 x 70 mm	1	6.228 312
303 x 151 x 81 mm	240 x 90 x 70 mm	1	6.228 313
352 x 252 x 81 mm	290 x 190 x 70 mm	1	6.227 810
252 x 252 x 82 mm	200 x 200 x 70 mm	1	7.631 628
408 x 300 x 21 mm	380 x 270 x 10 mm	1	6.205 063
409 x 300 x 42 mm	360 x 250 x 30 mm	1	6.224 951
408 x 299 x 81 mm	340 x 240 x 70 mm	1	6.227 811

**Laboratory trays LaboPlast®, PP**

*Bürkle GmbH*



White multi-purpose trays. Injection-moulded. Durable and resist flexing, with strong, rounded rim. Stackable and hygienic. Surface is easy-to-clean. Resistant to many acids and alkaline solutions. Food-safe. Temperature resistant up to 60 °C.



Nominal capacity	External dimensions (WxDxH)	Temperature resistance	Colour	PK	Cat. No.
0.5	230 x 180 x 42 mm	60 °C	White	1	9.200 203
1.5	310 x 250 x 65 mm	60 °C	White	1	9.200 204
3.0	370 x 310 x 75 mm	60 °C	White	1	9.200 205
10.0	520 x 420 x 120 mm	60 °C	White	1	9.200 206
21.0	634 x 534 x 140 mm	60 °C	White	1	9.200 207
39.0	846 x 648 x 160 mm	60 °C	White	1	9.200 208



### LLG-Crucibles, porcelain, low

The glazed porcelain crucible is characterised by high thermal and chemical resistance. Ideal for heating and melting of materials. According to DIN 12904. Temperature resistant up to 900 °C. **Please order lids separately.**

LLG Labware

Nominal capacity	Top Ø	Height	PK	Cat. No.
ml	mm	mm		
63	60	38	1	9.250 905
91	70	44	1	9.250 906
5	30	19	5	9.250 950
10	35	22	5	9.250 951
17	40	25	5	9.250 952
21	45	28	5	9.250 953
34	50	32	5	9.250 954



### LLG-Crucibles, porcelain, medium

The glazed porcelain crucible is characterised by high thermal and chemical resistance. Ideal for heating and melting of materials. According to DIN 12904. Temperature resistant up to 900 °C. **Please order lids separately.**

LLG Labware

Nominal capacity	Top Ø	Height	PK	Cat. No.
ml	mm	mm		
10	30	25	1	9.250 907
12	35	28	1	9.250 910
20	40	32	1	9.250 911
30	45	36	1	9.250 912
45	50	40	1	9.250 913
80	60	48	1	9.250 914
120	70	56	1	9.250 915
200	80	62	1	9.250 916
12	35	28	5	9.250 960
20	40	32	5	9.250 961
30	45	36	5	9.250 962
45	50	40	5	9.250 963
80	60	48	5	9.250 964



### LLG-Crucibles, porcelain, tall

The glazed porcelain crucible is characterised by high thermal and chemical resistance. Ideal for heating and melting of materials. According to DIN 12904. Temperature resistant up to 900 °C. **Please order lids separately.**

LLG Labware

Nominal capacity	Top Ø	Height	PK	Cat. No.
ml	mm	mm		
15	30	38	1	9.250 920
26	35	44	1	9.250 921
35	40	50	1	9.250 922
50	45	56	1	9.250 923
72	50	62	1	9.250 924
130	60	75	1	9.250 925
15	30	38	5	9.250 970
26	35	44	5	9.250 971



### Lids for LLG-Crucibles, porcelain

Glazed. According to DIN 12904. Temperature resistant up to 900 °C.

LLG Labware

Lid Ø	Crucible Ø	PK	Cat. No.
mm	mm		
84	80	1	9.250 937
34	30	5	9.250 980
39	35	5	9.250 981
44	40	5	9.250 982
49	45	5	9.250 983
54	50	5	9.250 984
64	60	5	9.250 985
74	70	5	9.250 986



### Crucibles, quartz glass, medium form

Transparent silica (Quartz glass). Medium form.

proQuarz GmbH

Nominal capacity	Top Ø	Height	PK	Cat. No.
ml	mm	mm		
15	35	28	1	6.268 880
20	40	32	1	9.250 340
38	45	36	1	6.057 366
49	50	40	1	9.250 350
90	60	48	1	9.250 351
150	70	56	1	7.602 706



**LLG-Incinerating dishes, porcelain**

Deep form. Glazed. Temperature resistant up to 900 °C.

LLG Labware

Nominal capacity ml	Dimension (ØxH)	With spout	PK	Cat. No.
21	40 x 20 mm	No	1	6.237 126
64	60 x 30 mm	Yes	1	6.241 972
64	60 x 30 mm	No	1	6.242 424
70	81 x 20 mm	No	1	7.654 046
103	70 x 35 mm	No	1	7.654 045



**LLG-Combustion boats, porcelain, with eyelet**

Unglazed. With eyelet for an easy removal out the furnace after the annealing process. Temperature resistant up to 1350 °C.

LLG Labware

Dimensions (WxDxH)	PK	Cat. No.
12 x 40 x 10 mm	1	9.250 943
13 x 75 x 8 mm	1	9.250 940
13 x 85 x 8 mm	1	9.250 942
13 x 90 x 8 mm	1	6.243 229
14 x 105 x 9 mm	1	9.250 941



**Magnesia trays**

Width 9 mm.

CeramTec GmbH

Length mm	PK	Cat. No.
100	100	9.152 109



**Magnesia rods**

For flame tests.

CeramTec GmbH

Type	PK	Cat. No.
Magnesia rods	100	9.152 125



**Pharmacist's spoon, stainless steel**

Remanit® 4301. Polished. Slim form.

RSG Rostfrei-Schneidwerkzeuge

Dimensions spoon (WxL)	Overall length mm	PK	Cat. No.
16 x 30 mm	150	1	9.150 060



**Reagent spoons, 18/10 steel**

Double ended.

BOCHEM Instrumente

Dimensions spoon (WxL)	Dimensions spoon 2 (WxL)	Overall length mm	PK	Cat. No.
22 x 30 mm	17 x 23 mm	120	1	9.150 012
22 x 30 mm	17 x 23 mm	150	1	9.150 015
29 x 40 mm	22 x 30 mm	180	1	9.150 018
29 x 40 mm	22 x 30 mm	210	1	9.150 021
29 x 48 mm	29 x 40 mm	250	1	9.150 025
35 x 48 mm	29 x 40 mm	300	1	9.150 030



**LLG-Spoon spatulas, 18/10 steel, wide form**

18/10 steel. Wide form.

LLG Labware

Dimensions Spoon (L x W) mm	Dimensions Spatulas (L x W) mm	Length mm	PK	Cat. No.
31 x 23	30 x 20	120	1	4.008 445
38 x 27	32 x 22	150	1	9.150 810
40 x 30	35 x 25	180	1	9.150 811
40 x 30	35 x 25	210	1	9.150 812
50 x 38	45 x 32	250	1	4.008 446
55 x 45	50 x 40	300	1	4.008 447



## Tools/Spoons, Spatulas



### LLG-Spoon spatulas, 18/10 steel

- One side with curved spoon
- One side with straight, triangular spatula

LLG Labware

For	Dimensions Spoon (L x W) mm	Dimensions Spatulas (L x W) mm	Overall length mm	PK	Cat. No.
Right hander	35 x 15	25 x 13	150	1	9.150 800
Right hander	35 x 15	25 x 13	180	1	9.150 801
Right hander	35 x 15	25 x 13	210	1	9.150 802
Right hander	35 x 15	25 x 13	250	1	9.150 073
Right hander	35 x 15	25 x 13	300	1	9.150 074
Left hander	35 x 15	25 x 13	150	1	9.150 080
Left hander	35 x 15	25 x 13	180	1	9.150 081
Left hander	35 x 15	25 x 13	210	1	9.150 082



### Spatulas, 18/10 steel, narrow form

Non-magnetic. With one spoon end and one flat end.

BOCHEM Instrumente

Dimensions Spoon (L x W) mm	Dimensions Spatulas (L x W) mm	Length mm	PK	Cat. No.
30 x 22	35 x 10	120	1	9.220 470
30 x 22	40 x 10	150	1	9.220 471
40 x 29	50 x 12	180	1	9.220 472
40 x 29	50 x 12	210	1	9.220 473
48 x 35	70 x 14	250	1	9.220 474
48 x 35	70 x 14	300	1	9.220 475



### Spoon spatulas, 18/10 steel, deep form

With spatula handle.

BOCHEM Instrumente

Dimensions Spoon (L x W) mm	Dimensions Spatulas (L x W) mm	Length mm	PK	Cat. No.
31 x 23	30 x 20	120	1	9.150 312
38 x 27	32 x 22	150	1	9.150 315
40 x 28	32 x 22	180	1	9.150 318
40 x 28	32 x 22	210	1	9.150 321
50 x 35	45 x 32	250	1	9.150 325
55 x 41	50 x 37	300	1	9.150 330



### Spoon spatulas, stainless steel

Remanit® 4301. Polished. With one open spoon and one tapered flat end.

RSG Rostfrei-Schneidwerkzeuge

Length mm	PK	Cat. No.
200	1	9.150 050



### Powder spoon, 18/10-steel

BOCHEM Instrumente

Dimensions spoon (WxL) mm	Overall length mm	PK	Cat. No.
10 x 40 mm	170	1	9.150 620
26 x 30 mm	200	1	6.076 552
15 x 30 mm	150	1	6.053 188
10 x 20 mm	150	1	6.053 187



### Micro spoon spatulas, 18/10 steel

With one flat end and one micro spoon end

BOCHEM Instrumente

Dimensions Spoon (L x W) mm	Length mm	PK	Cat. No.
9 x 5	150	1	9.150 565
9 x 5	180	1	6.076 279
7 x 5	150	1	7.200 220
6 x 4	150	1	6.076 691
5 x 3	150	1	6.060 324
9 x 5	200	1	9.150 570
9 x 5	150	1	6.077 689
9 x 5	180	1	6.401 212

**Micro double-ended spatulas, 18/10 steel**

Stainless steel with one end having a flat spatula and the other end having a flat spatula with rounded edges. *BOCHEM Instrumente*

Spatula width mm	Length mm	PK	Cat. No.
2	130	1	6.053 239
2	150	1	6.060 303
3	100	1	9.220 210
3	130	1	9.220 213
3	150	1	6.070 797
4	100	1	6.072 631
4	150	1	6.076 543
5	130	1	9.220 216
5	150	1	9.220 215
5	185	1	9.220 218
5	210	1	9.220 221
6	185	1	6.075 894



**Micro powder spatula, stainless steel**

Remanit® 4301. Polished. Very flexible. *RSG Rostfrei-Schneidwerkzeuge*

Width mm	Length mm	PK	Cat. No.
3	150	1	6.239 195
3	210	1	9.220 205
4	130	1	9.220 206
4	150	1	9.220 207
4	185	1	9.220 208
5	150	1	6.231 957
6	130	1	9.220 201
6	150	1	9.220 202
6	185	1	9.220 203
6	210	1	9.220 204
7	150	1	6.226 081



**Double-ended spatulas, 18/10 steel**

With one angular and one rounded spatula end. *BOCHEM Instrumente*

Spatula width mm	Length mm	PK	Cat. No.
9	130	1	9.220 013
9	150	1	9.220 015
9	185	1	9.220 018
11	210	1	9.220 021
11	250	1	9.220 025
16	300	1	9.220 030
16	350	1	6.073 375
16	400	1	6.051 013
20	500	1	6.072 630



**Double-ended spatulas, 18/10 steel, bent**

With one angular and one rounded spatula end. *BOCHEM Instrumente*

Spatula width mm	Length mm	PK	Cat. No.
9	130	1	9.220 113
9	150	1	9.220 115
9	185	1	9.220 118
11	210	1	9.220 121
11	250	1	9.220 125
16	300	1	9.220 130



**Double ended spatulas, 18/10 steel**

Narrow form. *ISOLAB Laborgeräte*

Type	Length mm	PK	Cat. No.
Straight	130	1	4.008 454
Straight	155	1	4.008 455
Straight	180	1	4.008 456
Straight	210	1	4.008 457
Straight	255	1	4.008 458
Straight	300	1	4.008 459
Curved	150	1	6.267 385
Curved	180	1	6.267 386
Curved	210	1	6.267 387



## Tools/Spoons, Spatulas



### Spatulas, round grooved, 18/10 steel

Polished, round grooved.

ISOLAB Laborgeräte

Spatula width mm	Length mm	PK	Cat. No.
9	150	1	4.008 448
9	185	1	4.008 449
9	210	1	4.008 450



### Spatulas with wooden handle, stainless steel

Flexible, long blade as outlined below.

BOCHEM Instrumente

Dimensions spatula (WxL)	Overall length mm	PK	Cat. No.
14 x 75 mm	165	1	9.220 607
18 x 100 mm	190	1	9.220 610
20 x 130 mm	230	1	9.220 613
22 x 150 mm	250	1	9.220 615
27 x 165 mm	275	1	9.220 616
32 x 200 mm	310	1	9.220 620
38 x 250 mm	365	1	9.220 625
42 x 300 mm	415	1	9.220 630



### Disposable spoons LaboPlast®/ SteriPlast®, PS

Bürkle GmbH



White. The spoons are ideal for sampling powders, granules and pastes.

- Individually packed

- SteriPlast® additionally gamma-sterilized
- Production, assembly and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Nominal capacity ml	Overall length mm	Colour	Sterile	PK	Cat. No.
2.50	127	White	No	100	6.265 033
10.00	170	White	No	100	6.265 034
2.50	127	White	Yes	100	6.265 045
10.00	170	White	Yes	100	6.265 046



### Disposable spoons LaboPlast® Bio/ SteriPlast® Bio, Green PE

Bürkle GmbH



White. The spoons are ideal for sampling powders, granules and pastes. The LaboPlast® Bio/SteriPlast® Bio products are entirely made of renewable resources. Not only with regard to quality but also with regard to its characteristics for high-quality sampling, it is perfectly comparable with conventional polyethylene.

- Individually packed
- SteriPlast® Bio additionally gamma-sterilized
- Production and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guideline

Nominal capacity ml	Overall length mm	Colour	Sterile	PK	Cat. No.
2.50	127	White	No	100	6.265 059
10.00	170	White	No	100	6.265 060
2.50	127	White	Yes	100	6.265 053
10.00	170	White	Yes	100	6.265 054

### Disposable spoons for foodstuffs SteriPlast®, PS



Bürkle GmbH

Blue. The spoon for foodstuffs is available in two sizes, 2.5 ml (similar to a teaspoon) and 10 ml (similar to a tablespoon), and is ideal for sampling powders, granulates, pastes and fluids. The shade of blue that is used does not occur in a natural form in foodstuffs. Because of this, the spoons or parts of them can be quickly found and easily identified in a visual check if they are ever mixed into production. The detectable spoons have a special additive in the material that makes them visible to metal detectors or X rays. They can therefore be rejected with standard systems for checking for foreign objects, even though they are made of plastic.



- Individually packed, gamma-sterilized
- Production, assembly and packaging according to clean room class 7 (10000)
- According to EU food and FDA guidelines

Nominal capacity	Overall length	Colour	Sterile	PK	Cat. No.
ml	mm				
2.50	127	Blue	Yes	100	6.284 560
10.00	170	Blue	Yes	100	6.284 561
2.50	127	Blue	Yes	100	6.284 571
10.00	170	Blue	Yes	100	6.284 572

### Disposable measuring spoons, PS, white



Bürkle GmbH

With the spoons, small quantities of powders, granulates and liquids can be precisely measured and dosed. Excess medium is wiped off at the top edge of the spoon for precise measurement. The volume is stamped on the handle.



- With wiping edge
- Cleanroom manufactured (cleanroom class 7)
- Food-safe

Nominal capacity	Colour	Sterile	PK	Cat. No.
ml				
0.50	White	No	100	4.670 771
0.50	White	Yes	100	4.670 772
1.00	White	No	100	4.670 773
1.00	White	Yes	100	4.670 774
2.50	White	No	100	4.670 775
2.50	White	Yes	100	4.670 776
5.00	White	No	100	4.670 777
5.00	White	Yes	100	4.670 778
10.00	White	No	100	4.670 779
10.00	White	Yes	100	4.670 780
15.00	White	No	100	4.670 781
15.00	White	Yes	100	4.670 782
25.00	White	No	100	4.670 783
25.00	White	Yes	100	4.670 784
50.00	White	No	100	4.670 785
50.00	White	Yes	100	4.670 786

### LLG-Macro Spoon Spatula, PP



LLG Labware

Consists of a spoon on one side which allows easy transfer of sample, while the other end is a flat construction with a knife edge which can be used to draw salt or breaking crystals.



Length	Colour	PK	Cat. No.
mm			
150	blue	25	4.664 539
180	blue	25	4.664 540
210	blue	25	4.664 541



### Disposable spoon spatula LaboPlast®/SteriPlast®, PS

Bürkle GmbH



White. The spoon spatula is a double spatula with a 0.5 ml spoon and a 17 mm spoon blade. The spoon spatula has many different uses in labs, as a sampling spoon, for measuring or transferring small amounts, as a scraper or for mixing and stirring. Specially designed for disposable use, resistant to chemicals and corrosion-proof.

- SteriPlast®: Individually packed, additionally gamma-sterilized
- Production, assembly and packaging according to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Length mm	Sterile	PK	Cat. No.
LaboPlast®	178	-	100	6.284 543
SteriPlast®	178	+	100	6.284 544



### Disposable double scoop spatula LaboPlast®/SteriPlast®, PS

Bürkle GmbH



White. Double scoop spatula with rounded ends. Content 1.0 and 0.25 ml, spatula width 11 mm on one side and 5.7 on the other side. The micro spatula can be used to sample, transfer or process small amounts of chemicals, powders, granulates, pastes, creams or liquids. The sturdy and convenient centre handle facilitates precise work.

- SteriPlast®: Individually packed, additionally gamma-sterilized
- Production, assembly and packaging according to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Length mm	Sterile	PK	Cat. No.
LaboPlast®	180	-	100	6.284 545
SteriPlast®	180	+	100	6.284 546

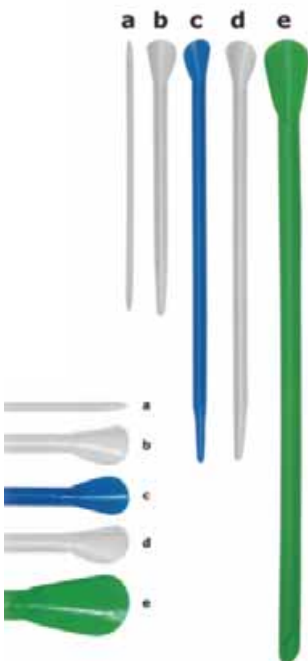


### Spatulas, PS

Impact resistant polystyrene. Available as double-ended flat spatula or one end flat and the other with spoon.

BRAND GMBH + CO.KG

Description	Overall length mm	Material	PK	Cat. No.
Double-ended	150	PS	10	6.323 098
Double-ended	180	PS	10	6.323 099
Spatula/spoon	180	PS	10	6.323 100
Spatula/spoon	210	PS	10	6.323 101



### Powder spatula smartSPATULAS®, PP

Heathrow Scientific



Single use polypropylene lab tools reduce costly contamination errors.

- Size related designs to fit perfectly with standard 0.2, 1.5/2.0, 15 and 50 mL tubes
- Ideal for dispensing or sample collection of powders or soft solids
- Shatter-resistant in liquid nitrogen, resistant to diluted acids and bases, and can be used with hot liquids
- Anti-static, sterile and Eco-friendly versions available
- Autoclavable and complies with FDA standards for food contact

For tubes ml	Description	Colour	Ø mm	Length mm	Figure	PK	Cat. No.
0.2	Micro Antistatic	Natural	3.5	140	a	300	6.256 896
15/1.5/2.0	Eco	Natural	7.0	140	b	300	6.256 894
15/1.5/2.0	Standard	Blue	7.0	210	c	300	6.256 893
15/1.5/2.0	Standard	Natural	7.0	210	d	300	6.256 895
15/1.5/2.0	Standard sterile	Natural	7.0	210	d	100	6.256 898
50	Macro	Green	1.0	310	e	150	6.256 897

**Tongue depressors, wooden**

In a bag. Paul Boettger GmbH

Length	PK	Cat. No.
mm		
150	100	9.165 101



**Spatula set, 14-pieces**

In zipper case, spatula attached with loops. Containing: 2 Spoon spatula, 150 mm, Karl Hammacher GmbH  
180 mm 3 Micro-spatula, spoon 5 x 7 mm, 100, 150, 185 mm 3 Double spatula, rigid,  
130, 150, 185 mm Micro-powder spatula, flexible, 150 mm Pharmacist spoon, double-ended, 170 mm Chemical spoon,  
double-sided, 150 mm Weighing spatula, 170 mm 2 Micro-double spatula, spoon-shaped, 130, 150 mm

Type	PK	Cat. No.
H50 132-00	1	6.312 442



**Spatula set, stainless steel, 7 pieces**

Remanit® 4301. 7 pieces: 1 x pair of forceps, blunt, straight, RSG Rostfrei-Schneidwerkzeuge  
145 mm 1 x micro spoon-spatula 150/5 mm 1 x micro spoon-spatula  
150/7 mm 1 x double spatula 150/9 mm 1 x powder spatula 150/9 mm 1 x micro powder spatula 150/4 mm  
1 x micro double spatula 150/4 mm In bag with push button. Made in Germany.

Type	PK	Cat. No.
Spatula set	1	7.630 153



**LLG-Stirring rods, Soda-lime glass**

With flame-polished ends. LLG Labware

Outer diam. mm	Length mm	PK	Cat. No.
3	200	10	9.197 403
4	150	10	9.197 404
4	200	10	9.197 405
5	150	10	9.197 406
5	200	10	9.197 407
6	150	10	9.197 408
6	200	10	9.197 424
6	250	10	9.197 426
7	300	10	9.197 431
8	300	10	9.197 433
9	300	10	9.197 435



### Universal scissors, stainless steel, plastic handle

All purpose scissors for use in the office and at home. Produced from stainless steel. Sharp blades for accurate cutting. Ergonomic designed handles made from ABS material feature soft-grip insert. Supplied on try-me card. Colour: black/red.

- stainless steel, polished
- special grinding for precise cuts
- ergonomic handles

Werner Dorsch GmbH

Form	Length mm	PK	Cat. No.
Straight	140	1	9.160 651
Sharp	160	1	9.160 652
Straight	210	1	9.160 653
Straight	255	1	9.160 654



9.160 651



9.160 652



9.160 653



9.160 654

### LLG-Scissors general purpose, stainless steel

Excellent grade polished stainless steel with straight form and close shanks. Available as 3 types:

- sharp/sharp points
- blunt/blunt points
- sharp/blunt points

LLG Labware

Form	Length mm	PK	Cat. No.
sharp - sharp	130	1	6.237 703
sharp - sharp	160	1	9.204 231
blunt - sharp	130	1	9.204 232
blunt - sharp	160	1	9.204 233
blunt - blunt	130	1	9.204 234
blunt - blunt	160	1	9.204 235

### Scissors dissecting, stainless steel

Excellent grade polished stainless steel with fine sharp points and close shanks. Available as 2 types:

- Straight body form
- Curved body form

ISOLAB Laborgeräte

Form	Length mm	PK	Cat. No.
Straight body form	130	1	6.236 264
Curved body form	130	1	9.204 222

### LLG-All-round Cutter with rubber grip

An easy and comfortable handling is ensured by the ergonomically shaped grip. The break-off device is integrated into the grip section of the ABS plastic casing. Comes with a metal blade guide and auto-lock system. Both cutters will be delivered on blister cards including 2 spare cutting blades.

LLG Labware



9.160 656



9.160 657

Type	PK	Cat. No.
LLG-All-round Cutter 18 mm	1	9.160 656
LLG-All-round Cutter 9 mm	1	9.160 657
Replacement blade for LLG-All-round Cutter 18 mm	10	9.160 658
Replacement blade for LLG-All-round Cutter 9 mm	10	9.160 659



### Apollo blades

High-quality Swedish alloy steel. Standard quality.

Apollo Herkenrath

Type	Width	Thickness	Height	PK	Cat. No.
	mm	mm	mm		
Bail blades with handle	39	0.25	19	100	6.322 097
Bail blades with handle (20 x 5)	39	0.25	19	100	7.930 281
Bail blades with handle	57	0.28	25	5	6.800 353
Apollo Ever-Sharp-Blades	39	0.30	19	5	9.156 110



6.322 097



6.800 353



9.156 110

### LLG-Torch

Sturdy torch with 12 energy saving LED lights for ultra-bright light. Made from metal with practical hand strap incl. 3 x 1.5V AAA batteries.

LLG Labware

Type	PK	Cat. No.
LLG-Torch	1	9.961 000



### LLG-Forceps, stainless steel 1.4021

Blunt-straight.

LLG Labware

Version	Tip shape	Length	PK	Cat. No.
		mm		
Straight	Blunt	105	1	4.008 471
Straight	Blunt	115	1	4.008 472
Straight	Blunt	130	1	4.008 473
Straight	Blunt	145	1	6.255 826
Straight	Blunt	160	1	4.008 474
Straight	Blunt	200	1	4.008 475
Straight	Blunt	250	1	4.008 476
Straight	Blunt	300	1	4.008 477
Straight	Blunt*	115	1	4.008 478
Straight	Blunt*	130	1	4.008 479
Straight	Blunt*	145	1	4.008 480
Straight	Blunt*	160	1	4.008 481

\* with tooth



### LLG-Dissecting forceps, stainless steel 1.4021

Manufactured from premium grade polished stainless steel with fine sharp points and sprung flutes.

LLG Labware

Version	Tip shape	Length	PK	Cat. No.
		mm		
Straight	Fine	105	1	4.008 482
Straight	Fine	115	1	9.171 121
Straight	Fine	130	1	9.171 122
Straight	Fine	140	1	9.171 123
Straight	Fine	165	1	4.008 483
Straight	Fine	205	1	4.008 484
Curved	Fine	105	1	4.008 485
Curved	Fine	115	1	9.171 124
Curved	Fine	130	1	6.236 683



## Tools/Forceps



### Forceps, 18/10 stainless steel

Straight, blunt.

BOCHEM Instrumente

Version	Tip shape	Length	PK	Cat. No.
		mm		
Straight	Blunt	105	1	9.171 010
Straight	Blunt	115	1	9.171 011
Straight	Blunt	130	1	9.171 013
Straight	Blunt	145	1	9.171 014
Straight	Blunt	160	1	9.171 016
Straight	Blunt	200	1	9.171 020
Straight	Blunt	250	1	9.171 025
Straight	Blunt	300	1	9.171 030



### Tissue forceps, 18/10 steel

With tooth grips 1:2.

BOCHEM Instrumente

Length	PK	Cat. No.
mm		
115	1	9.171 311
130	1	9.171 313
145	1	9.171 314
160	1	9.171 316



### Forceps, stainless steel 18/10

BOCHEM Instrumente

Version	Tip shape	Length	PK	Cat. No.
		mm		
Straight	Sharp-fine	105	1	9.171 110
Straight	Sharp-fine	115	1	9.171 111
Straight	Sharp-fine	130	1	9.171 113
Straight	Sharp-fine	145	1	9.171 114
Straight	Sharp-fine	160	1	9.171 115
Straight	Sharp-fine	200	1	9.171 116
Curved	Sharp-fine	105	1	9.160 120
Curved	Sharp-fine	115	1	9.160 121
Curved	Sharp-fine	130	1	9.160 123
Curved	Sharp-fine	145	1	6.902 503
Curved	Sharp-fine	160	1	6.274 762
Curved	Sharp-fine	200	1	9.171 217



### Forceps, curved end, 18/10 steel

Stainless 18/10 steel. Curved ends with sharp tips.

BOCHEM Instrumente

Version	Tip shape	Length	PK	Cat. No.
		mm		
Curved	Sharp	115	1	9.171 221
Curved	Sharp	135	1	9.171 223
Curved	Sharp	145	1	9.171 224
Curved	Sharp	160	1	9.171 225
Curved	Sharp	200	1	9.171 226



### Forceps, stainless steel, anti-magnetic, anti-acid

Ideal-tek S.A.

Version	Tip shape	Length	PK	Cat. No.
		mm		
Straight	Strong-fine	110	1	4.668 564
Curved	Fine	120	1	4.668 562
Curved	Very fine	120	1	4.668 572
Curved	Fine	150	1	4.668 566
Straight	Fine-blunt	150	1	4.668 571

**Forceps, stainless steel, anti-magnetic, anti-acid, with guide-pin**

Ideal-tek S.A.



Version	Tip shape	Length	PK	Cat. No.
		<b>mm</b>		
Straight	Strong-fine	155	1	4.668 563

**Disposable tweezers, PS**

Bürkle GmbH



For precise laboratory work, for gripping and holding small objects.

- Serrated handles
- Cleanroom manufactured (cleanroom class 7)
- Food-safe

Version	Tip shape	Length	Tips inside	PK	Cat. No.
		<b>mm</b>			
Angled	Sharp-fine	130	Smooth	100	4.670 759
Angled	Sharp-fine	130	Smooth	100	4.670 760
Straight	Sharp	130	Serrated	100	4.670 761
Straight	Sharp	130	Serrated	100	4.670 762
Straight	Wide-blunt	130	Smooth	100	4.670 763
Straight	Wide-blunt	130	Smooth	100	4.670 764

**Disposable anatomical tweezers, ABS, sterile**

Disposable anatomical tweezers, 120 mm.

Heinz Herenz



Length	PK	Cat. No.
<b>mm</b>		
120	100	6.270 262

**LLG-Forceps assortment, 4-parts, chromium-nickel steel**

LLG-Forceps assortment, 4-parts, chromium-nickel steel (1.4301) in synthetic leather bag including: 1 Sharp forcep, curved, 115 mm 1 Thumb forcep, 115 mm 1 Forcep with guide pin straight, 130 mm 1 Coverglas forcep, 115 mm 1 Synthetic leather bag, 6 subjects 100 x 175 mm

LLG Labware



Description	PK	Cat. No.
LLG-Forceps assortment, 4-parts	1	9.160 394

**LLG-Dispensing scoops, HDPE**

LLG Labware



For heavy industrial use. Food safe.

Nominal capacity	Overall length	PK	Cat. No.
<b>ml</b>	<b>mm</b>		
250	250	5	4.682 197
250	250	25	6.321 691
500	300	5	4.682 198
500	300	25	6.321 692
1000	350	5	4.682 195
1000	350	25	6.321 690
1500	400	5	4.682 196



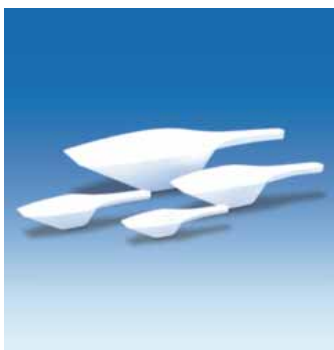
### Measuring scoops, HDPE

VITLAB GmbH



Natural colouring. Conical in shape with tapered filling edge.  
Food-safe product according to regulation (EU) No. 10/2011.

Nominal capacity	Overall length	Colour	PK	Cat. No.
ml	mm			
15	115	Natural	1	7.008 959
25	135	Natural	1	7.008 960
65	185	Natural	1	7.008 961
110	215	Natural	1	7.008 962
150	250	Natural	1	9.201 025
350	310	Natural	1	9.201 030
750	350	Natural	1	9.201 035
1250	400	Natural	1	9.201 040



### Measuring scoops, PP

VITLAB GmbH



Measuring scoops which are also suitable as weighing scoops. With precision formed filling edge and comfortable, stable handle. Easily readable volume quantities on the upper side of the handle.  
Food-safe product according to regulation (EU) No. 10/2011.

Nominal capacity	Overall length	Colour	PK	Cat. No.
ml	mm			
2	60	White	12	9.201 042
5	82	White	12	9.201 043
10	100	White	12	9.201 045
25	135	White	12	9.201 047
50	160	White	12	9.201 048
100	200	White	12	9.201 049
250	260	White	6	4.678 198
500	315	White	6	4.678 197
1000	385	White	6	9.201 050



### Dispensing scoops, Aluminium

Wilhelm Schröder

Nominal capacity	Length scoop	Overall length	PK	Cat. No.
ml	mm	mm		
42	80	135	1	9.201 113
105	113	185	1	9.201 118
140	120	210	1	9.201 121
260	145	250	1	9.201 125
340	155	265	1	9.201 126
555	185	310	1	9.201 131
675	220	350	1	9.201 135
1510	270	400	1	9.201 140
3000	300	430	1	9.201 143



### Dispensing scoops, stainless steel

Made from stainless steel Remanit® 4301.

RSG Rostfrei-Schneidwerkzeuge

Nominal capacity	Length scoop	Ø	Overall length	PK	Cat. No.
ml	mm	mm	mm		
120	100	50	190	1	9.201 219
450	145	75	250	1	9.201 222
1000	190	105	320	1	9.201 232
1500	240	120	350	1	9.201 235

**Scoops FoodScoop, Stainless steel V2A (1.4301)**



Bürkle GmbH



Very stable hand scoop for various applications. Seamless connection of scoop and hollow handle, therefore without crevices and edges.

- Smooth, highly polished surface.
- Especially sturdy model
- Food safe

Nominal capacity	Width scoop	Length scoop	Overall length	PK	Cat. No.
ml	mm	mm	mm		
100	60	120	215	1	6.254 785
200	75	140	230	1	6.252 363
250	85	155	245	1	6.254 786
350	100	180	290	1	6.242 476
500	130	220	350	1	6.072 181

**Spirit lamp, soda-lime glass**

Flat conical form. With ground on cover. Without filling inlet, without wick or nozzle (please order separately).

DWK Life Sciences

Nominal capacity	Dimension (ØxH)	PK	Cat. No.
ml			
100	75 x 103 mm	1	9.018 549



**Accessories for spirit burner, soda-lime glass**

DWK Life Sciences

Description	PK	Cat. No.
Wick	1	9.018 553
Nozzles	1	9.018 554



**Flame sterilizer/Blowlamp Soudogaz® X 2000/X 2000 PZ**

Air volume regulation for stepless adjustment of flame size. For operation with gas cartridge C 206 GLS With durable housing to protect the cartridge.

Camping Gaz (Deutschland)

- For flaming and sterilizing
- Mobile hand-held device
- One-hand operation possible

Weight: 380 g without cartridge  
Consumption: 120 g/h  
Flame temperature: approx. 1750 °C

Type	PK	Cat. No.
Soudogaz® X 2000 without piezo ignition	1	9.018 540
Soudogaz® X 2000 PZ with piezo ignition	1	9.018 539



**Bunsen burner, portable Labogaz® 206**

For operation with gas cartridge C 206 GLS (Cat.-No.: 9.018 520). DVGW-authorized.

Camping Gaz (Deutschland)

Weight: 380g without cartridge  
Height: 200mm with cartridge  
Consumption: 55g/h

Type	PK	Cat. No.
Labogaz® 206	1	9.018 510





### Bunsen burner, portable, Labogaz® 470

For operation with gas cartridges CV 300 Plus (Cat.-No.: 6.243 905) or CV 470 Plus (Cat.-No.: 9.018 512). *Camping Gaz (Deutschland)*

Weight: 380 g without cartridge  
 Height: 190 mm with cartridge CV 300 Plus 240 mm with cartridge CV 470 Plus  
 Consumption: 55 g/h

Type	PK	Cat. No.
Labogaz® 470	1	9.018 511



### Gas cartridges

**C 206 GLS pierceable cartridge** Piercing cartridge with integrated gas lock system according to EN 417: 2012. For bunsen burner without safety valve. For bunsen burners Labogaz® 206 and Soudogaz blow torches. **CV470 Plus and CV 300 Plus valve cartridge** With safety valve. For bunsen burner Labogaz® 470. **CV 360 valve cartridge** With safety valve. For gas-safety burner schuett phoenix (Cat.-No. 9.018 761). Safety valve allows removal of partially used valve gas cartridges. *Camping Gaz (Deutschland)*

Type	Capacity g	Combustible	Height mm	PK	Cat. No.
C 206 GLS	190	80/20 Butane/Propane	90	1	9.018 520
C 206 GLS	190	80/20 Butane/Propane	90	5	6.290 860
C 206 GLS	190	80/20 Butane/Propane	90	36	6.261 010
CV 300 Plus	240	80/20 Butane/Propane	105	1	6.243 905
CV 470 Plus	450	80/20 Butane/Propane	140	12	6.261 011
CV 360	52	Butane	140	1	9.018 519

Suitable accessories can be found in our online shop.



**Danger**  
 H phrases: H220



### Gas cartridge

220 g/400 ml. With safety valve. Provides approx. 3 hours use. EN 417: 2012. 70% butane, 30% propane. *Carl Friedrich Usbeck*

Capacity g	Combustible	PK	Cat. No.
220	70/30 Butane/Propane	1	9.018 364



**Danger**  
 H phrases: H220

### Burner for cartridges

With needle gas valve and air regulator. **Only for the gas cartridge 9.018 364.** *Carl Friedrich Usbeck*

Type	Height mm	PK	Cat. No.
Cartridge Burner DIN type with cartridge	136	1	6.082 974
Burner for cartridges, Teclu, without cartridge	136	1	9.018 363
Burner for cartridges, Bunsen, without cartridge	136	1	9.018 370
Ignition fuse with cartridge	152	1	6.073 253



**Danger**  
 H phrases: H220



9.018 363



9.018 370



6.073 253



### Piezoelectric gas lighter, Clipper

Piezoelectric. *Deutsch & Neumann*

Type	PK	Cat. No.
Piezoelectric gas lighter, Clipper	1	9.018 820

### Crucible tongs

With bow and gripping tips.

*BOCHEM Instrumente*

Length	Material	Electropolished	PK	Cat. No.
<b>mm</b>				
160	Stainless steel 1.4301	Yes	1	9.310 116
200	Stainless steel 1.4301	Yes	1	9.310 120
220	Stainless steel 1.4301	Yes	1	9.310 122
250	Stainless steel 1.4301	Yes	1	9.310 125
300	Stainless steel 1.4301	Yes	1	9.310 130
400	Stainless steel 1.4301	Yes	1	9.310 140
500	Stainless steel 1.4301	Yes	1	9.310 150
600	Stainless steel 1.4301	Yes	1	9.310 160



### Tripod stand

Zinc-plated steel. With circular top and flared legs. Zinc plating of tripod stands serves as temporary corrosion protection. May peel off after direct contact with open burner flame.

*Carl Friedrich Usbeck*

Ø	Height	PK	Cat. No.
<b>mm</b>	<b>mm</b>		
100	180	1	9.034 110
120	210	1	9.034 112
120	250	1	6.200 910
120	260	1	6.234 831
140	220	1	9.034 114
160	230	1	6.059 957



### Wire gauzes

Plain, stainless steel wire with flanged edges. Mesh: 0.6mm x 2.0 mm. Sizes as outlined below.

*RSG Rostfrei-Schneidwerkzeuge*

Width	Depth	PK	Cat. No.
<b>mm</b>	<b>mm</b>		
115	115	1	9.150 717
135	135	1	9.150 718
155	155	1	9.150 719
175	175	1	9.150 720
195	195	1	9.150 721

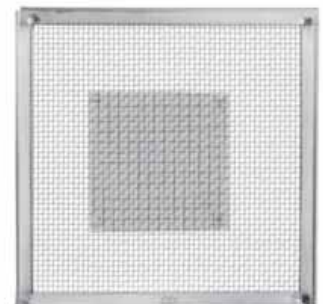


### Wire gauzes

Plain, stainless steel wire with heat resistant center, mesh: 0.6 mm x 2.0 mm

*RSG Rostfrei-Schneidwerkzeuge*

Width	Depth	PK	Cat. No.
<b>mm</b>	<b>mm</b>		
135	135	1	9.033 653
155	155	1	9.033 655
175	175	1	9.033 657
195	195	1	9.033 659



### Safety gas hoses, rubber, without reinforcement

According to DIN 30664 section 1. Without cable armor. Connecting line for connecting between safety gas connection fitting according to DIN 3383-4 and gas burners for laboratories according to DIN 30665 section 1. For all gases according to DVGW worksheet G 260, at pressures up to 100 mbar and temperatures up to 70 °C. Installations according to DVGW-TRGI 2008 and DVGW worksheet G 621. DVGW Reg.-No. NG-4607AU2362. Supplied per meter.

*Deutsch & Neumann*

Int. Ø	Ext. Ø	Wall thickness	Temperature resistance	Max. delivery length	PK	Cat. No.
<b>mm</b>	<b>mm</b>	<b>mm</b>		<b>m</b>		
10.0	14	2	70 °C	40	1	9.018 970





### Tubing, Rubber (NR)

Red. Durometer 45 Shore A. Supplied per meter.

Deutsch &amp; Neumann

Int. Ø	Ext. Ø	Wall thickness	Temperature resistance	Max. delivery length	PK	Cat. No.
mm	mm	mm		m		
2.0	4	1.0	-30 ... 60 °C	25	1	9.205 157
4.0	7	1.5	-30 ... 60 °C	25	1	9.205 166
5.0	8	1.5	-30 ... 60 °C	25	1	9.205 170
5.0	9	2.0	-30 ... 60 °C	25	1	9.205 171
6.0	9	1.5	-30 ... 60 °C	25	1	9.205 173
6.0	10	2.0	-30 ... 60 °C	25	1	9.205 174
7.0	10	1.5	-30 ... 60 °C	25	1	9.205 179
7.0	11	2.0	-30 ... 60 °C	25	1	9.205 180
8.0	12	2.0	-30 ... 60 °C	25	1	9.205 184
9.0	13	2.0	-30 ... 60 °C	25	1	9.205 187
10.0	14	2.0	-30 ... 60 °C	25	1	9.205 192
12.0	17	2.5	-30 ... 60 °C	25	1	9.205 195

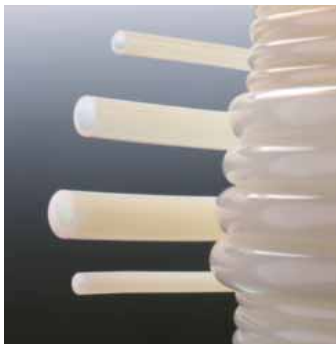


### Vacuum tubing, rubber (NR)

Red. Durometer 45 Shore A. Supplied per meter.

Deutsch &amp; Neumann

Int. Ø	Ext. Ø	Wall thickness	Temperature resistance	Max. delivery length	PK	Cat. No.
mm	mm	mm		m		
4.0	12	4	-30 ... 60 °C	25	1	9.205 804
5.0	13	4	-30 ... 60 °C	25	1	6.075 946
8.0	16	4	-30 ... 60 °C	25	1	6.072 075
8.0	20	6	-30 ... 60 °C	25	1	6.053 348
10.0	16	3	-30 ... 60 °C	25	1	6.078 678
10.0	20	5	-30 ... 60 °C	25	1	9.205 809
12.0	22	5	-30 ... 60 °C	25	1	6.054 195
5.0	15	5	-30 ... 60 °C	25	10	9.205 811
6.0	14	4	-30 ... 60 °C	25	10	4.679 011
6.0	16	5	-30 ... 60 °C	25	10	9.205 812
7.0	15	4	-30 ... 60 °C	25	10	4.679 012
7.0	17	5	-30 ... 60 °C	25	10	9.205 813
8.0	18	5	-30 ... 60 °C	25	10	9.205 814



### Vacuum Tubing, Silicone

Deutsch &amp; Neumann

Int. Ø	Ext. Ø	Wall thickness	Temperature resistance	Max. delivery length	PK	Cat. No.
mm	mm	mm		m		
4.0	12	4	-60 ... 200 °C	25	5	4.679 013
6.0	12	3	-60 ... 200 °C	25	5	4.679 014
7.0	13	3	-60 ... 200 °C	25	5	4.679 015
8.0	16	4	-60 ... 200 °C	25	5	4.679 016
8.0	18	5	-60 ... 200 °C	15	5	4.679 017
10.0	20	5	-60 ... 200 °C	15	5	4.679 018



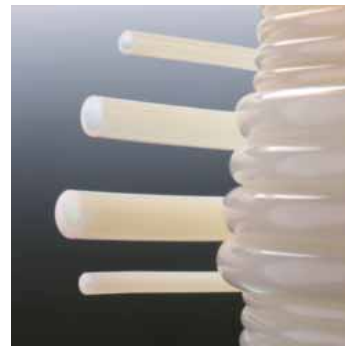


**Tubing, Silicone**



Deutsch & Neumann

Silicone rubber (VMQ), transparent, hardness 60 Shore A, food safe, temperature-resistant from -60 to 200 °C (short term up to 260 °C), suitable for peristaltic pumps. BFR XV, FDA CFR 21 § 177.2600, EP-Europ. Pharmacopoeia/DAB, biocompatibility: Cytotoxicity (USP Class 1-6), Hemolysis, Pyrogenicity, Sensitization, Dermatological Irritation, Implantation (90 days) according to ISO 10993-1. Supplied per meter.



Int. Ø mm	Ext. Ø mm	Wall thickness mm	Temperature resistance	Max. delivery length m	PK	Cat. No.
0.5	2.5	1.00	-60 ... 200 °C	25	1	9.205 210
0.8	1.6	0.40	-60 ... 200 °C	25	1	6.077 624
1.0	1.8	0.40	-60 ... 200 °C	25	1	9.205 220
1.5	3.0	0.75	-60 ... 200 °C	25	1	7.510 657
1.5	3.5	1.00	-60 ... 200 °C	25	1	9.205 233
2.0	2.6	0.30	-60 ... 200 °C	25	1	9.205 243
2.5	4.5	1.00	-60 ... 200 °C	25	1	9.205 247
4.0	5.0	0.50	-60 ... 200 °C	25	1	9.205 263
4.0	9.0	2.50	-60 ... 200 °C	25	1	6.800 894
5.0	6.0	0.50	-60 ... 200 °C	25	1	6.510 848
5.0	9.0	2.00	-60 ... 200 °C	25	1	9.205 271
5.0	10.0	2.50	-60 ... 200 °C	25	1	6.051 286
6.0	8.0	1.00	-60 ... 200 °C	25	1	6.054 776
7.0	9.0	1.00	-60 ... 200 °C	25	1	6.078 584
8.0	11.0	1.50	-60 ... 200 °C	25	1	9.205 282
8.0	14.0	3.00	-60 ... 200 °C	25	1	6.076 521
8.0	15.0	3.50	-60 ... 200 °C	25	1	6.052 487
9.0	12.0	1.50	-60 ... 200 °C	25	1	9.205 286
10.0	13.0	1.50	-60 ... 200 °C	25	1	6.077 445
10.0	15.0	2.50	-60 ... 200 °C	25	1	6.077 390
10.0	16.0	3.00	-60 ... 200 °C	25	1	6.075 034
11.0	15.0	2.00	-60 ... 200 °C	25	1	6.076 955
12.0	18.0	3.00	-60 ... 200 °C	25	1	7.059 572
15.0	21.0	3.00	-60 ... 200 °C	20	1	6.059 206
25.0	34.0	4.00	-60 ... 200 °C	15	1	6.078 413

**Tubings RAULAB FG®SLIDETEC, Silicone, platinum cured**



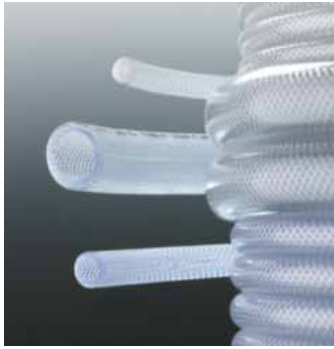
Silnova GmbH

Food safe, non talc-coated. According to BfR XV (Silicone), FDA 177.2600 and EC 1935/2004, RAU-SIK 6602. Durometer 60 ±5 Shore A to DIN 53505. Supplied per meter.



Int. Ø mm	Ext. Ø mm	Wall thickness mm	Temperature resistance	Max. delivery length m	PK	Cat. No.
1.0	3	1,0	-60 ... 200 °C	100	1	9.205 000
2.0	4	1,0	-60 ... 200 °C	100	1	9.205 001
2.0	6	2,0	-60 ... 200 °C	100	1	9.205 002
3.0	5	1,0	-60 ... 200 °C	100	1	9.205 003
3.0	6	1,5	-60 ... 200 °C	100	1	9.205 004
3.0	7	2,0	-60 ... 200 °C	100	1	9.205 005
4.0	6	1,0	-60 ... 200 °C	100	1	9.205 006
4.0	7	1,5	-60 ... 200 °C	100	1	9.205 007
4.0	8	2,0	-60 ... 200 °C	100	1	9.205 008
5.0	7	1,0	-60 ... 200 °C	100	1	9.205 009
5.0	8	1,5	-60 ... 200 °C	100	1	9.205 010
6.0	9	1,5	-60 ... 200 °C	100	1	9.205 011
6.0	10	2,0	-60 ... 200 °C	100	1	9.205 012
7.0	10	1,5	-60 ... 200 °C	100	1	9.205 013
8.0	10	1,0	-60 ... 200 °C	100	1	9.205 014
8.0	12	2,0	-60 ... 200 °C	100	1	9.205 015
9.0	13	2,0	-60 ... 200 °C	100	1	9.205 017
10.0	14	2,0	-60 ... 200 °C	100	1	9.205 018
12.0	16	2,0	-60 ... 200 °C	100	1	9.205 020

## Tubing/Plastic



### Fabric-reinforced tubing, PVC



Deutsch & Neumann

Transparent. PVC with terylene mesh reinforcement. Certificated by German TÜV with due regard to regulatory of DIN EN ISO 5774:2008. Proofed by BGVO directive 2002/72/EC bis 2008/39/EC for food contact. Durometer 77 Shore A. Supplied per meter.

Int. Ø	Ext. Ø	Wall thickness	Max. delivery length	PK	Cat. No.
mm	mm	mm	m		
4.0	10.0	3.0	50	1	6.302 636
5.0	11.0	3.0	50	1	6.223 307
6.0	12.0	3.0	50	10	6.291 358
8.0	14.0	3.0	50	10	6.291 359
9.0	15.0	3.0	50	1	6.052 192
10.0	16.0	3.0	50	10	6.291 360
12.0	21.0	4.5	50	1	6.078 205
12.5	18.5	3.0	50	10	6.291 361
13.0	20.0	3.5	50	1	6.076 492
16.0	24.0	4.0	50	1	6.052 770
19.0	27.0	4.0	50	1	6.051 906
25.0	34.0	4.5	25	1	6.084 789
32.0	42.0	5.0	25	1	6.077 983
38.0	48.0	5.0	25	1	7.041 231



### Rubber Tubing, Viton®

Deutsch & Neumann

- Fluoroelastomer Rubber (FPM), black
  - Temperature range -10 to over 200 °C
  - Good resistance to ozone and weathering, as well as benzene and mineral oil
  - Durometer 75 Shore A
- Supplied per meter.

Int. Ø	Ext. Ø	Wall thickness	Temperature resistance	Max. delivery length	PK	Cat. No.
mm	mm	mm		m		
2.0	4	1.0	-10 ... 200 °C	25	1	9.205 745
3.0	5	1.0	-10 ... 200 °C	25	1	9.205 758
3.0	7	2.0	-10 ... 200 °C	25	1	6.239 017
4.0	6	1.0	-10 ... 200 °C	25	1	9.205 765
4.0	7	1.5	-10 ... 200 °C	25	1	6.055 794
4.0	8	2.0	-10 ... 200 °C	25	1	6.089 121
5.0	7	1.0	-10 ... 200 °C	25	1	9.205 769
5.0	8	1.5	-10 ... 200 °C	25	1	6.263 076
6.0	8	1.0	-10 ... 200 °C	25	1	9.205 772
6.0	9	1.5	-10 ... 200 °C	25	1	6.401 182
6.0	10	2.0	-10 ... 200 °C	25	1	9.205 774
7.0	9	1.0	-10 ... 200 °C	25	1	9.205 778
7.0	10	1.5	-10 ... 200 °C	25	1	7.910 342
7.0	11	2.0	-10 ... 200 °C	25	1	9.205 780
8.0	10	1.0	-10 ... 200 °C	25	1	7.654 678
8.0	11	1.5	-10 ... 200 °C	25	1	9.205 782
8.0	12	2.0	-10 ... 200 °C	25	1	9.205 784
9.0	12	1.5	-10 ... 200 °C	25	1	9.205 786
9.0	13	2.0	-10 ... 200 °C	25	1	9.205 787
10.0	12	1.0	-10 ... 200 °C	25	1	6.241 468
10.0	14	2.0	-10 ... 200 °C	25	1	9.205 792
12.0	16	2.0	-10 ... 200 °C	25	1	6.083 415



**Tubing, PTFE**

Highly chemical resistant. Supplied per meter.

Bohlender GmbH



Int. Ø mm	Ext. Ø mm	Wall thickness mm	Temperature resistance	Max. delivery length m	PK	Cat. No.
0.5	1.0	0.25	-200 ... 250 °C	100	1	9.205 608
1.5	2.1	0.30	-200 ... 250 °C	100	1	9.205 630
1.5	3.5	1.00	-200 ... 250 °C	100	1	9.205 633
1.6	3.2	0.80	-200 ... 250 °C	100	1	9.205 634
2.0	3.0	0.50	-200 ... 250 °C	100	1	9.205 644
2.0	4.0	1.00	-200 ... 250 °C	100	1	9.205 645
3.0	4.0	0.50	-200 ... 250 °C	100	1	9.205 657
3.0	5.0	1.00	-200 ... 250 °C	100	1	9.205 658
4.0	5.0	0.50	-200 ... 250 °C	100	1	9.205 663
4.0	6.0	1.00	-200 ... 250 °C	100	1	9.205 665
5.0	6.0	0.50	-200 ... 250 °C	100	1	9.205 668
5.0	7.0	1.00	-200 ... 250 °C	100	1	9.205 669
6.0	8.0	1.00	-200 ... 250 °C	100	1	9.205 672
7.0	9.0	1.00	-200 ... 250 °C	100	1	9.205 678
8.0	9.5	0.75	-200 ... 250 °C	100	1	9.205 681
8.0	11.0	1.50	-200 ... 250 °C	100	1	9.205 682
8.0	12.0	1.60	-200 ... 250 °C	100	1	9.205 684
9.0	11.0	1.00	-200 ... 250 °C	100	1	9.205 685
10.0	12.0	1.00	-200 ... 250 °C	100	1	9.205 691
10.0	14.0	2.00	-200 ... 250 °C	100	1	9.205 692
0.5	1.0	0.25	-200 ... 250 °C	100	10	6.291 372
0.5	1.6	0.55	-200 ... 250 °C	100	10	6.291 373
0.8	1.6	0.40	-200 ... 250 °C	100	10	6.291 374
1.0	1.6	0.40	-200 ... 250 °C	100	10	6.291 375
1.0	2.0	0.50	-200 ... 250 °C	100	10	6.291 376
1.6	3.2	0.80	-200 ... 250 °C	100	10	6.291 377
2.0	3.0	0.50	-200 ... 250 °C	100	10	6.291 378
2.0	4.0	1.00	-200 ... 250 °C	100	10	6.291 379
4.0	6.0	1.00	-200 ... 250 °C	100	10	6.291 380
6.0	8.0	1.00	-200 ... 250 °C	100	10	6.291 381
8.0	10.0	1.00	-200 ... 250 °C	100	10	6.291 382

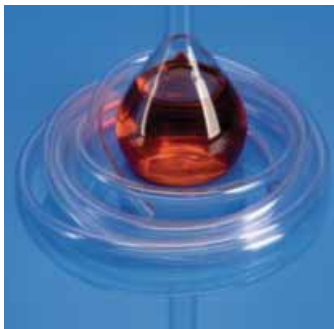
**Tubing Versilic®, Silicone**

Versilic® 60 shore tubing is biologically inert and does not inhibit cell culture. It stays flexible down to -50 °C and maintains its chemical, mechanical and electrical performance up to 200 °C. Versilic® meets the European Pharmacopoeia requirements for silicone elastomer for closures and tubing, USP Class VI biological tests and ISO 10993 biocompatibility (systemic toxicity, irritation, sensitization, cytotoxicity, hemocompatibility and Ames test).

Saint Gobain



Int. Ø mm	Ext. Ø mm	Wall thickness mm	Length m	Temperature resistance	Max. delivery length m	PK	Cat. No.
1.0	3.0	1.00	1.00	-50 ... 200 °C	50	1	9.205 301
2.0	4.0	1.00	1.00	-50 ... 200 °C	50	1	9.205 302
3.0	5.0	1.00	1.00	-50 ... 200 °C	50	1	9.205 303
4.0	6.0	1.00	1.00	-50 ... 200 °C	50	1	9.205 304
4.0	8.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 267
5.0	7.0	1.00	1.00	-50 ... 200 °C	25	1	9.205 305
5.0	8.0	1.50	25.00	-50 ... 200 °C	25	1	6.056 836
6.0	9.0	1.50	1.00	-50 ... 200 °C	25	1	6.236 287
6.0	10.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 275
7.0	10.0	1.50	25.00	-50 ... 200 °C	25	1	6.232 526
7.0	11.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 306
7.0	13.0	3.00	25.00	-50 ... 200 °C	25	1	6.258 122
8.0	12.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 285
9.0	13.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 307
10.0	14.0	2.00	1.00	-50 ... 200 °C	25	1	9.205 308
12.0	17.0	2.50	1.00	-50 ... 200 °C	25	1	9.205 309



### Tubing Tygon® E-3603

Transparent, Shore A 55. Universal laboratory tubing with very good gripping properties on glass or plastic fittings. Very low gas permeability level similar to rubber. Resistant to most laboratory chemicals. Suitable for peristaltic pumps and for food and beverage dispensing. Meets FDA and USP class VI.

Saint Gobain

- Temperature range -50 to 74 °C
- Smooth inner surface
- Contains no BPA or phthalates

Int. Ø mm	Ext. Ø mm	Wall thickness mm	Length m	Temperature resistance	PK	Cat. No.
0.8	2.4	0.8	15.00	-50 ... 74 °C	1	9.205 515
1.6	3.2	0.8	15.00	-50 ... 74 °C	1	9.205 536
1.6	4.8	1.6	15.00	-50 ... 74 °C	1	9.205 537
2.4	4.0	0.8	15.00	-50 ... 74 °C	1	9.205 550
2.4	5.6	1.6	15.00	-50 ... 74 °C	1	9.205 551
3.2	4.8	0.8	15.00	-50 ... 74 °C	1	9.205 561
3.2	6.4	1.6	15.00	-50 ... 74 °C	1	9.205 562
4.0	5.6	0.8	15.00	-50 ... 74 °C	1	9.205 564
4.0	7.1	1.6	15.00	-50 ... 74 °C	1	9.205 566
4.8	7.9	1.6	15.00	-50 ... 74 °C	1	9.205 567
6.4	9.5	1.6	15.00	-50 ... 74 °C	1	9.205 576
6.4	11.1	2.4	15.00	-50 ... 74 °C	1	9.205 577
6.4	12.7	3.2	15.00	-50 ... 74 °C	1	9.205 578
7.9	11.1	1.6	15.00	-50 ... 74 °C	1	9.205 583
7.9	12.7	2.4	15.00	-50 ... 74 °C	1	9.205 584
9.5	12.7	1.6	15.00	-50 ... 74 °C	1	9.205 588

Further products can be found in our online shop.

### Flow indicators LaboPlast®



Bürkle GmbH

Gives a visual indication of liquid or gas flow in tubing. Operates in both directions and at any angle. Can accommodate flow rates down to approx. 150 ml/min Length incl. nozzle 88 mm. For tubing from 6 mm to 11 mm diameter. Maximum pressure: 2 bar. Food Safe.

#### Choice of models:

- LiquiMobil made of SAN up to 30 °C working temperature
- CheMobil made of PMP up to 60 °C working temperature, autoclavable good, chemically resistance

Type	Colour	PK	Cat. No.
LiquiMobil/SAN	blue	1	9.003 910
LiquiMobil/SAN	red	1	9.003 911
LiquiMobil/SAN	black	1	9.003 912
CheMobil/ PMP	blue	1	9.003 913
CheMobil/ PMP	red	1	9.003 901
CheMobil/PMP	black	1	9.003 914



### 2-way valves Laboplast®



Bürkle GmbH

Resistant to compression max. 1 bar.

- PVDF: excellent chemical resistance, transparent, suitable for food
- PP/PE: for industrial use, red/white
- Operating temperature: PVDF 0 to 40 °C, PP/PE 5 to 40 °C

For tubing bore mm	Valve bore mm	Material	PK	Cat. No.
5 ... 7	4	PVDF	1	9.116 771
7 ... 9	6	PVDF	1	9.116 772
9 ... 11	8	PVDF	1	9.116 773
11 ... 13	8	PVDF	1	9.116 775
5 ... 7	4	PE / PP	1	9.116 781
7 ... 9	6	PE / PP	1	9.116 782
9 ... 11	8	PE / PP	1	9.116 783
11 ... 13	8	PE / PP	1	9.116 784



### 3-way valves Laboplast®



Bürkle GmbH

Resistant to compression max. 1 bar.  
 - PVDF: excellent chemical resistance, transparent, suitable for food  
 - PP/PE: for industrial use, red/white  
 - Operating temperature: PVDF 0 to 40 °C, PP/PE 5 to 40 °C

For tubing bore mm	Valve bore mm	Material	PK	Cat. No.
5 ... 7	4	PVDF	1	9.116 776
7 ... 9	6	PVDF	1	9.116 777
9 ... 11	8	PVDF	1	9.116 778
11 ... 13	8	PVDF	1	9.116 780
5 ... 7	4	PE / PP	1	9.116 786
7 ... 9	6	PE / PP	1	9.116 787
9 ... 11	8	PE / PP	1	9.116 788
11 ... 13	8	PE / PP	1	9.116 789



### Tubing connectors, PP

Transparent. Straight. BRAND GMBH + CO.KG

Int. tubing Ø	Length	PK	Cat. No.
	mm		
3 ... 5 mm	47.0	1	9.207 163
6 ... 10 mm	55.0	1	9.207 165
9 ... 13 mm	57.0	1	9.207 168



### Tubing connectors, PP

Transparent. Straight. BRAND GMBH + CO.KG

Int. tubing Ø	Length	PK	Cat. No.
	mm		
3 ... 5 mm	47.0	10	4.688 815
6 ... 10 mm	55.0	10	4.688 816
9 ... 13 mm	57.0	10	4.688 817



### Tubing connectors, PP

Transparent, straight. Used to link tubing of different diameters. BRAND GMBH + CO.KG

Int. tubing Ø	Length	PK	Cat. No.
	mm		
5 ... 17 mm	110.0	1	9.207 270



### Tubing connectors, PP

Transparent, straight. Used to link tubing of different diameters. BRAND GMBH + CO.KG

Int. tubing Ø	Length	PK	Cat. No.
	mm		
5 ... 17 mm	110.0	10	4.688 818



### Reduction adapters, PP

Transparent. BRAND GMBH + CO.KG

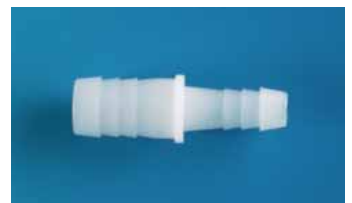
Int. tubing Ø	Int. tubing Ø 2	Length	PK	Cat. No.
		mm		
3 ... 5 mm	6 ... 10 mm	55.0	10	4.688 907
6 ... 10 mm	9 ... 13 mm	59.0	10	4.688 912



### Reduction adapters, HDPE

BRAND GMBH + CO.KG

Int. tubing Ø	Int. tubing Ø 2	Length	PK	Cat. No.
		mm		
8 ... 10 mm	11 ... 14 mm	66.0	10	4.688 914
12 ... 14 mm	18 ... 20.5 mm	73.0	10	4.688 931





### Y-tubing connectors, PP



Kartell S.p.A.

Transparent. Y- shape. Autoclavable.

Int. tubing Ø	Bore	Length	PK	Cat. No.
	mm	mm		
4 mm	2.0	24.0	1	9.207 200
6 mm	2.7	35.0	1	9.207 203
8 mm	4.6	54.0	1	9.207 205
10 mm	5.5	64.0	1	9.207 207
12 mm	7.3	74.0	1	9.207 208
14 mm	9.7	87.0	1	9.207 210



### Tubing connectors, PP



Kartell S.p.A.

PP. Straight. White. Autoclavable.

Int. tubing Ø	Bore	Length	PK	Cat. No.
	mm	mm		
4 ... 6 mm	2.0	39.0	1	9.207 221
6 ... 8 mm	3.5	52.0	1	9.207 222
8 ... 10 mm	4.5	59.0	1	9.207 223
10 ... 12 mm	6.5	59.0	1	9.207 224
12 ... 14 mm	8.5	66.0	1	9.207 225
14 ... 16 mm	10.5	66.0	1	9.207 226



### Non-return valves, HDPE

FKM valve disc. Not suitable for pressure applications.

BRAND GMBH + CO.KG

Int. tubing Ø	Length	PK	Cat. No.
	mm		
6 ... 9 mm	78.0	10	4.688 826



### Tubing clamps stop-it, Metall

Tubing clamps can regulate or stop the flow through of tubings that carry fluids or gases.

Bürkle GmbH

Stepless flow regulation: The knurled screw allows very fine stepless flow control. The flow

can also be shut off completely. The fully adjustable pressure plate squeezes the hose against the stable steel hook.

The hose is compressed over a wide area, in order to prevent it from being damaged, stop-it can be mounted on hoses
 after they have been connected. stop-it metal is extremely heat resistant and robust due to the steel and aluminum.

The hose clamp is available in four different sizes up to a maximum hose diameter of 30mm.



Ext. tubing Ø	PK	Cat. No.
10.0 mm	1	9.303 787
15.0 mm	1	9.303 788
20.0 mm	1	9.303 789
30.0 mm	1	9.303 790

### Curved tubing clamps stop-it, PVDF

Stepless flow regulation. The micro setting screw allows very fine stepless flow control, the flow can also be shut off completely. The fully adjustable pressure plate squeezes the hose against the stable steel hook. The hose is compressed over a wide area in order to prevent it from being damaged. Easy-Click closure - Stopper can be opened and closed in any position - without tiresome screwing on and off. Stopper is with up to 140 °C heat-resistant and chemical resistant plastic PVDF, the clamp is galvanised steel. Available in 3 sizes for hose diameters up to 20 mm.

Bürkle GmbH



Ext. tubing Ø	Max. temperature resistance °C	PK	Cat. No.
10.0 mm	140	1	9.303 775
15.0 mm	140	1	9.303 776
20.0 mm	140	1	9.303 777
10.0 mm	140	1	9.303 778
15.0 mm	140	1	9.303 779
20.0 mm	140	1	9.303 780
10.0 mm	140	1	9.303 781
15.0 mm	140	1	9.303 782
20.0 mm	140	1	9.303 783
10.0 mm	140	1	9.303 784
15.0 mm	140	1	9.303 785
20.0 mm	140	1	9.303 786



### Tubing clamps

Hose clips, with hexagonal head. UNEXIS GmbH

Clamping range	PK	Cat. No.
4.0 ... 10.0 mm	1	6.267 868
5.5 ... 10.0 mm	1	9.207 510
6.0 ... 12.0 mm	1	6.267 869
8.5 ... 12.0 mm	1	9.207 512
8.0 ... 14.0 mm	1	6.267 870
9.5 ... 14.0 mm	1	9.207 514
12.0 ... 17.0 mm	1	9.207 517
14.0 ... 19.0 mm	1	9.207 519
16.0 ... 21.0 mm	1	9.207 521
17.3 ... 22.0 mm	1	6.072 714
20.0 ... 25.0 mm	1	9.207 525
24.0 ... 29.0 mm	1	9.207 529
25.5 ... 30.0 mm	1	6.283 366
28.0 ... 33.0 mm	1	9.207 533
32.0 ... 37.0 mm	1	9.207 537
36.0 ... 41.0 mm	1	9.207 541
5.5 ... 10.0 mm	100	6.270 731
10.0 ... 14.0 mm	100	6.270 732
8.0 ... 12.0 mm	1	6.072 821
15.0 ... 19.0 mm	100	6.270 733
12.0 ... 17.0 mm	1	6.073 046
16.0 ... 21.0 mm	1	6.202 327
20.0 ... 25.0 mm	1	6.072 989
24.0 ... 29.0 mm	1	6.202 328
28.0 ... 33.0 mm	1	6.202 131



### Worm drive tubing clamps

To DIN 3017. Chrome steel 1.4016. With galvanized, worm drive screw. NORMA Distribution

Clamping range	Width band mm	PK	Cat. No.
7 ... 11 mm	5.0	1	9.207 435
8 ... 12 mm	7.5	1	9.207 437
10 ... 16 mm	7.5	1	9.207 439
11 ... 19 mm	5.0	1	9.207 436
12 ... 22 mm	9.0	1	9.207 440
16 ... 25 mm	9.0	1	9.207 445
20 ... 32 mm	9.0	1	9.207 452
25 ... 40 mm	9.0	1	9.207 460
32 ... 50 mm	9.0	1	9.207 465
40 ... 60 mm	9.0	1	6.241 130





### Tubing clamps POM

Hose clips made of Polyacetal (POM).

Bürkle GmbH

Clamping range	PK	Cat. No.
6.0 ... 6.5 mm	10	6.052 587
9.0 ... 10.0 mm	10	6.052 588
10.0 ... 11.0 mm	10	6.052 589
11.0 ... 12.0 mm	10	6.052 590
12.0 ... 14.0 mm	10	6.052 591
13.0 ... 15.0 mm	10	6.052 592
15.0 ... 17.0 mm	10	6.052 593
17.0 ... 19.0 mm	10	6.052 594
18.0 ... 20.0 mm	10	6.052 595
20.0 ... 22.0 mm	10	6.052 596
23.0 ... 25.0 mm	10	6.052 598



### LLG-Labeling tapes

For labelling and colour coding of laboratory vessels and utensils. Strong and durable. Water resistant. Can withstand temperatures ranging from -23 °C to 121 °C. The tapes are easy to write-on and leave no residue when removed. Rolls of 12.7 m.

LLG Labware

Width mm	Colour	PK	Cat. No.
12.7	white	6	4.663 401
12.7	yellow	6	4.663 402
12.7	3 x blue, 3 x green, 3 x orange, 3 x red, 5 x white, 4 x yellow, 3 x pink	24	4.663 408
19.0	yellow	4	4.663 410
19.0	green	4	4.663 411
19.0	2 x blue, 2 x green, 2 x orange, 2 x red, 4 x white, 2 x yellow, 2 x pink	16	4.663 416
25.4	green	3	4.663 419
25.4	1 x blue, 2 x green, 1 x orange, 2 x red, 2 x white, 2 x yellow, 2 x pink	12	4.663 424



### Deep freeze labels Cryo-Babies®/Cryo-Tags®

Temperature resistant from -196 °C to 150 °C. All labels withstand freezer temperatures down to -196 °C (liquid and vapour phase nitrogen), boiling water baths, autoclaving and moderate ovens (150 °C). Chemically inert labels resist most organic solvents and caustic agents. They adhere to most plastics, glass and metals without cracking, peeling or degrading. Made with a flexible, polyolefin label material and acrylic adhesive. This unique combination expands and contracts together with temperature fluctuations resulting in a strong adhesive bond. Convenient dispensing box assists in labeling individual tubes used in small experiments. Easy to write on. PVC labels accept writing from most lab markers including solvent resistant pens.

Heathrow Scientific

Type	Dimensions (W x D) mm	Colour	For vessels	PK	Cat. No.
Cryo-Babies®	24 x 13	White	0.5 ml tubes	1000	9.100 030
Cryo-Babies®	33 x 13	White	1.5 / 2.0 ml tubes	1000	9.100 031
Cryo-Tags®	38 x 19	White	General application	1000	9.100 032



**Indicator tape for steam, hot air and gas sterilisation**

Crepe paper, adhesive. With indicator. Colour changes according to DIN EN ISO 11140-1. Rolls of 50 m.

Key Surgical GmbH



With	colour change	Width mm	Figure	PK	Cat. No.
Steam indicator	green / black	19	b	1	9.140 784
Steam indicator	white / black	25	b	1	9.140 789
Steam indicator, strongly adhesive, for non-woven fabric	green / black	19	c	1	9.140 790
Steam indicator, strongly adhesive, for non-woven fabric	white / black	25	c	1	9.140 791
Hot air indicator	green / brown	19	e	1	6.240 223

**Label printer DYMO® LabelWriter™ Wireless**

Label printer with direct thermal printing technology for fast and efficient label printing without additional ink cartridges or toner cartridges. The label printer can be connected to a PC via either a USB cable or wireless network.

Dymo

- High print resolution of up to 600 x 300 dpi
- Customised label design with free DYMO® Label software
- Pre-installed label templates in the DYMO® Label software make it easy to create labels
- Microsoft® Office plug-ins allow printing directly from Word, Excel®, or Outlook®
- Free DYMO® Connect Mobile app for creating and printing directly from mobile devices

**Scope of supply:** Label printer, 1 x label starter roll (28 x 89 mm), power adapter, power cable, USB cable, quick start guide

Type	Width labels	Dimensions (WxDxH)	Weight g	Power supply	PK	Cat. No.
DYMO® LabelWriter™ Wireless	59 mm	127 x 204 x 124 mm	633	24 VDC	1	4.687 568



**Paper labels LabelWriter™ for DYMO® label printers, removable**

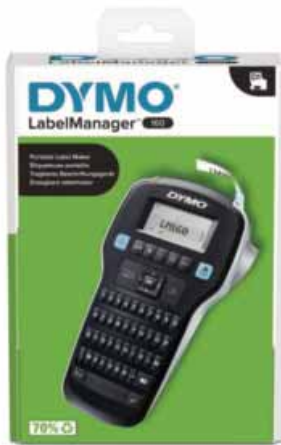
LW Paper Labels can be removed without adhesive residue and are ideal for most labelling applications.

Dymo

- No ink cartridges or toner cartridges and no smudging of text thanks to direct thermal printing technology
- BPA-free
- FSC®-certified
- Temperature resistant from -18 to 25 °C



Colour	Width mm	Length mm	Material	For	PK	Cat. No.
White	13.00	25.00	Paper	LabelWriter™ Wireless, 450 TwinTurbo, 450 DUO, 550, 550 Turbo, 5XL	1	4.687 636
White	19.00	51.00	Paper	LabelWriter™ Wireless, 450 TwinTurbo, 450 DUO, 550, 550 Turbo, 5XL	1	4.687 638
White	25.00	25.00	Paper	LabelWriter™ Wireless, 450 TwinTurbo, 450 DUO, 550, 550 Turbo, 5XL	1	4.687 660
White	32.00	57.00	Paper	LabelWriter™ Wireless, 450 TwinTurbo, 450 DUO, 550, 550 Turbo, 5XL	1	4.687 637
White	41.00	89.00	Paper	LabelWriter™ Wireless, 450 TwinTurbo, 450 DUO, 550, 550 Turbo, 5XL	1	4.687 639



### Label printer DYMO® LabelManager™ 160

The portable label printer enables simple and flexible labelling for general labelling purposes. The large LCD display shows how the labels will look before printing.

Dymo

- Easy text editing using quick-access buttons: bold, italic, vertical, underline, and frame
- 6 font sizes, 8 font styles, 4 frames, underline, 228 symbols and clipart
- Auto power-off function extends battery life
- Thermal transfer printing with 180 dpi resolution

**Scope of supply:** Label printer, D1 starter label tape black on white (12 mm x 3 m), quick start guide

Type	Width labels	Keyboard	Dimensions (WxDxH)	Weight	PK	Cat. No.
				<b>g</b>		
DYMO® LabelManager™ 160	6 ... 12 mm	AZERTY	118 x 203 x 49 mm	350	1	4.687 598
DYMO® LabelManager™ 160	6 ... 12 mm	QWERTZ	118 x 203 x 49 mm	350	1	4.687 599



### D1 High-performance label tapes for DYMO® label printers

Label tape with industrial adhesive for secure adhesion to flat or curved surfaces. With back slit (Easy Peel) for easy removal of the label tapes from the protective film. The water-resistant design is suitable for indoor and outdoor applications and withstands UV light, heat, humidity, household cleaners, and freezing conditions.

Dymo

- Scratch and tear resistant material ensures long lasting legibility
- No smudging or fading of text thanks to thermal transfer printing technology
- External D1 ribbon cartridges made from 100% recycled material
- Temperature resistant from -40 to 80 °C

Colour	Width	Length	Material	For	PK	Cat. No.
	<b>mm</b>	<b>m</b>				
Black on white	12.00	5.50	Vinyl	LabelManager™ 160, 210D+, 280, 360D, 420P, PnP, 500TS/LabelWriter™ 450 DUO	1	4.687 563
White on black	12.00	3.00	Vinyl	LabelManager™ 160, 210D+, 280, 360D, 420P, PnP, 500TS/LabelWriter™ 450 DUO	1	4.687 564
Black on white	12.00	3.50	Nylon	LabelManager™ 160, 210D+, 280, 360D, 420P, PnP, 500TS/LabelWriter™ 450 DUO	1	4.687 604
Black on white	19.00	3.50	Nylon	LabelManager™ 360D, 420P, 500TS/LabelWriter™ 450 DUO	1	4.687 605
Black on white	12.00	5.50	Polyester	LabelManager™ 160, 210D+, 280, 360D, 420P, PnP, 500TS/LabelWriter™ 450 DUO	1	4.687 606
Black on white	19.00	5.50	Polyester	LabelManager™ 360D, 420P, 500TS/LabelWriter™ 450 DUO	1	4.687 607

### Permanent markers edding 3000

The classic with round tip. Line width approximately 1.5 to 3 mm. Low-odour, smudge-proof and water-resistant and quick drying. Refillable. Replaceable tips. For labelling, painting and writing on virtually all materials, including glass, metal and plastics. Alcohol-based ink without toluene/xylene. Colours as outlined below.

edding Vertrieb GmbH



Type	Colour	Line width	PK	Cat. No.
		<b>mm</b>		
3000	Black	1.5 ... 3.0	10	4.667 506
3000	Red	1.5 ... 3.0	10	4.667 508
3000	Blue	1.5 ... 3.0	10	4.667 511
3000/4S Prof.	Black, Red, Blue, Green	1.5 ... 3.0	1	7.673 256

### Lab-Marker Securiline®

For permanent marking on plastic, metal, and porcelain labware. Will write even when labware surface is damp.

VmP Vertrieb

- Permanent, quick-drying ink
- Fine tip



Colour	PK	Cat. No.
Black	10	4.665 487
Red	10	6.312 384
Blue	10	6.312 385
Green	10	6.312 386

### LLG-Lab Notebook

For recording research data, experimental procedures, and design ideas. Use these notebooks to keep your information safe and well organised. Numbered, acid-free, grid pages include spaces for title, project number, book number, date, and witness signature. Lined notebooks feature college ruled pages for easy report writing. Covers are waterproof and chemical-resistant. All notebooks contain periodic and conversion tables in the back. Admissible as court evidence when used as prescribed by law. Measures: 216 x 279 mm.

LLG Labware



Type	Description	Colour	PK	Cat. No.
Grid	100 pages	Black	1	9.050 750
Grid	200 pages	Blue	1	9.050 751
Lined	200 pages	Red	1	9.050 752

### LLG-Laboratory jack, stainless steel

Plates made of stainless steel. Top plate with Ø 10 mm hole. With non-skid rubber feet. Acc. to DIN 12897.

LLG Labware



Dimensions (WxD)	Adjustable height	Max. stat. load capacity	Max. dyn. load capacity	PK	Cat. No.
		kg	kg		
200 x 200 mm	60 ... 270 mm	30	7	1	9.117 220

### Rectangular retort stand bases, enamel, coated steel plate

Highly stable laboratory stand due to the steel rectangular base which is stove enamel coated. With an M10 threaded hole in the middle of one short side. Rubber support feet prevents the stand from sliding. Laboratory stands are supplied without support rod. Please select the suitable rod from "support rods".

ISOLAB Laborgeräte



Dimensions (WxD)	Weight	PK	Cat. No.
	g		
130 x 210 mm	1725	1	6.242 701
150 x 300 mm	2830	1	4.008 486
200 x 315 mm	4000	1	4.008 487

### Laboratory stand

Same rod can be placed either at the centre or at the rear of the base offering multi advantages. White base colour guarantees perfect visual observation of colour changes during titration applications.

ISOLAB Laborgeräte

- Rectangular base made of ABS.
- Delivered complete with a screw-in M10 support rod of 600 mm height



Dimensions (WxD)	Stand height	PK	Cat. No.
	mm		
175 x 300 mm	600	1	6.243 692

### Retort stand bases

To DIN 12892. Steel, powder-coated, 8 mm thick. Rubber feet. With an M10 bore hole in the middle of one shorter side.

Carl Friedrich Usbeck



Dimensions (WxD)	PK	Cat. No.
100 x 180 mm	1	7.200 420
130 x 210 mm	1	9.224 013
160 x 250 mm	1	6.076 836
150 x 300 mm	1	9.224 015
200 x 315 mm	1	9.224 017



### Support rods galvaniser steel

Galvanised steel. With or without M10 thread.

BOCHEM Instrumente

Dimensions (ØxL)	Thread	PK	Cat. No.
12 x 500 mm	M10	1	9.224 105
12 x 600 mm	M10	1	9.224 106
12 x 750 mm	M10	1	9.224 107
12 x 1000 mm	M10	1	9.224 110
12 x 1250 mm	M10	1	7.095 411
12 x 1500 mm	M10	1	9.224 115
12 x 500 mm	-	1	6.701 307
12 x 600 mm	-	1	9.224 126
12 x 750 mm	-	1	9.224 127
12 x 1000 mm	-	1	9.224 130
12 x 1250 mm	-	1	6.081 670
12 x 1500 mm	-	1	9.224 135



### Support rods 18/10 stainless steel

18/10 stainless steel.

BOCHEM Instrumente

Dimensions (ØxL)	Thread	PK	Cat. No.
12 x 500 mm	M 10	1	6.076 621
12 x 600 mm	M 10	1	9.224 206
12 x 750 mm	M 10	1	9.224 207
12 x 1000 mm	M 10	1	9.224 210
12 x 1500 mm	M 10	1	6.900 476
13 x 500 mm	M 10	1	6.252 611
13 x 600 mm	M 10	1	6.229 853
13 x 750 mm	M 10	1	7.604 556
16 x 1000 mm	M 10	1	7.605 127
12 x 600 mm	-	1	9.224 226
12 x 750 mm	-	1	9.224 227
12 x 1000 mm	-	1	9.224 230
12 x 1500 mm	-	1	6.053 253



6.239 009

### Bosshead, standard

Chrome plated cast alloy with smoothly opening distance of 0 - 20 mm.  
Available as 2 types:

ISOLAB Laborgeräte

- With fix stem that holds the objects on fixed position
- With swivel mechanism which enables the object to freely swivel 360° and lockable at any desired angle



6.238 711

Description	PK	Cat. No.
Swivel bosshead	1	6.239 009
Solid stem bosshead	1	6.238 711

### Bossheads, Zinc die casting

To DIN 12895. Zinc die casting, powder-coated. For vertical and horizontal clamping.

Carl Friedrich Usbeck

Jaw opening mm	PK	Cat. No.
16	1	9.224 251
16	1	9.224 245
20	1	9.224 257



9.224 251



9.224 257



### Double cross bosshead

Malleable cast iron with chrome finish. DIN 12895. 90° and 180° angle with lug screw. *BOCHEM Instrumente*

Jaw opening mm	PK	Cat. No.
16.5	1	9.224 264



### Universal clamp, with cork

Prongs with cork. *BOCHEM Instrumente*

Jaw opening mm	Material	Shaft length mm	PK	Cat. No.
0 ... 80	Aluminium, DIN pattern	180	1	9.224 501
0 ... 80	18/10 steel	150	1	9.224 502



### Clamps, retort, 3-prong, chromated steel

Manufactured from chrome plated cast steel with two prongs which are PVC coated for gentle hold of the objects. Two separately adjustable clamps enables perfect control of holding pressure and precise positioning of the objects. Clamps can be opened and closed smoothly with a grip width of 0-70 mm. Available as 2 types: *ISOLAB Laborgeräte*

- With solid stem of 12 mm rod diameter with the holding angle and distance from the support rod can be adjusted by a separate bosshead
- With swivel mechanism which enables the object freely swivel 360° and lockable at any desired angle. Complete with an integral bosshead usable for rods maximum diameter of 21 mm

Jaw opening mm	PK	Cat. No.
0 ... 70	1	6.242 700
0 ... 70	1	6.243 690



6.242 700



6.243 690

### Clamps

To DIN 12894. B form. Zinc die casting, powder-coated. With round jaws. *Carl Friedrich Usbeck*

Jaw opening mm	PK	Cat. No.
25	1	9.224 302
40	1	9.224 304
60	1	9.224 306
80	1	9.224 319



### Three-prong clamp

Zinc die casting, natural alloy, vinyl-coated jaws. *Carl Friedrich Usbeck*

Jaw opening mm	PK	Cat. No.
0 ... 25	1	6.076 892
0 ... 40	1	6.076 893
25 ... 80	1	6.078 655



### Universal Clamp

With cork lined jaws, opening 0 to 80 mm. Rod diameter 10 mm. *Carl Friedrich Usbeck*

Material	Type of coating	PK	Cat. No.
Die-cast zinc	Powder-coated	1	6.070 007
Die-cast zinc		1	6.077 745
Die-cast zinc	Nickel-plated	1	7.079 496
Stainless steel		1	6.234 156



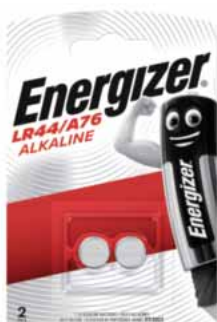


### Alkaline Batteries, Energizer® Industrial

Best performance for industrial, medical and laboratory applications.

VOLTRONIC GmbH

Type	Volt	PK	Cat. No.
LR14/EN93/C/Baby	1.5	12	9.012 921
LR6/EN91/AA	1.5	10	9.012 939
LR03/EN92/AAA/Micro	1.5	10	9.012 944
LR20/EN95/D/Mono	1.5	12	9.012 922
LR20/EN95/D/Mono	1.5	2	6.256 131
6LR61/EN522/9V/E-Block	9.0	12	9.012 923



### Alkaline Special Batteries Energizer®

For a variety of measuring devices; thermometers, digital balances, pocket calculators, watches, timers etc.

VOLTRONIC GmbH

Type	Volt	PK	Cat. No.
A76/LR44/13GA	1.5	2	9.012 932
EPX76/SR44	1.5	2	9.012 933
189/LR54/10GA	1.5	2	9.012 934



### Aluminium foil

Suitable for many laboratory applications. Resistant to liquids and gases. Ideal for sealing and wrapping of bottles and flasks. Good thermal conductivity, heat resistant.

Korff AG

Description	Width	Length	Thickness	PK	Cat. No.
	mm	m	µm		
Dispenser box	300	100	13	1	9.106 103
Dispenser box	300	150	15	1	6.076 250
Dispenser box	300	100	30	1	6.070 786
Dispenser box	450	150	15	1	9.106 102
Dispenser box	450	100	30	1	6.070 787
Dispenser box	500	100	30	1	9.106 105
Dispenser box	600	100	30	1	6.027 813
Roll	500	200	50	1	9.106 205
Short roll	300	20	13	1	9.106 013
Short roll	300	10	15	1	9.106 106
Short roll	300	20	15	1	6.239 531
Short roll	300	10	30	1	9.106 107
Short roll	450	10	15	1	9.106 015
Short roll	450	10	30	1	6.076 351
Refilling roll	300	150	15	1	6.076 184
Refilling roll	300	100	30	1	6.060 382
Refilling roll	450	150	15	1	9.106 104
Refilling roll	450	150	20	1	6.802 168
Refilling roll	450	100	30	1	7.510 894
Refilling roll	500	100	30	1	6.075 999
Refilling roll	600	100	30	1	6.510 476



### Aluminium containers, round

Novelis Deutschland

Capacity	Top diam.	Bottom diam.	Fill height	PK	Cat. No.
ml	mm	mm	mm		
28	64	51	13	100	9.106 240
110	80	56	34	100	9.106 241
110	99	70	25	100	9.106 242
125	96	78	24	100	9.106 261
280	114	58	50	50	9.106 263

**PARAFILM® M sealing film**

Can be stretched up to 200 % and clings around irregular shapes and surfaces.  
 PARAFILM® M is resistant to many polar substances such as saline solutions, inorganic acids and alkaline solutions for up to 48 hours (After this time it may become brittle).

*Amcors Flexibles North*

Melting temperature: 60 °C  
 Continued use temperature: -45 °C ... 50 °C  
 Stretching ability: 200%

Type	Width Length		PK	Cat. No.
	mm	m		
PARAFILM® M	50	75	1	9.170 003
PARAFILM® M	100	38	1	9.170 002
PARAFILM® M	100	75	1	9.170 005
PARAFILM® M	500	15	1	9.170 004



**LLG-Dispenser for PARAFILM® M, orange, ABS**

PARAFILM® M feeds through easily and is easy to cut using the safety cutting device.  
 For rolls with up to 100 mm width and 38 m length.

*LLG Labware*

Type	Material	PK	Cat. No.
LLG-Dispenser for PARAFILM® M	ABS	1	9.170 006



**LLG-Surface protector DescProtect**

DescProtect is a durable paper which quickly absorbs liquid spills. The PE-coated base layer stops liquids reaching the work surface.

*LLG Labware*

- Stays flat, does not ripple or curl to de-stabilise vessels
- White surface can be written on using pens or pencils
- Rapid absorption of liquid spills
- Excellent fluid protection
- No contamination of work surfaces or laboratory cabinets
- Suitable for school laboratories, wet chemistry, industry

Surface protection paper with two layers:

- Layer 1: Highly absorbent carrier paper, sucks up spilled toxic or radioactive liquids quickly
- Layer 2: Wetness impermeable polyethylene layer, protection for lab workbenches, trays or chemical cabinets
- Additional advantages: impermeable cover in animal cages, ideal in humidity chambers for atmospheric regulation

Thickness: 0.24 mm  
 Weight: 125 g/m<sup>2</sup>  
 Absorption: 170 g/m<sup>2</sup>

Type	Size	PK	Cat. No.
Sheets	460 mm x 570 mm	50	9.160 270
Roll	400 mm x 50 m	1	9.160 271



## General laboratory aids/Bags, Foils



### LLG-Disposal bags, PE

Transparent. PE. Without seal.

LLG Labware

Width	Length	Thickness	PK	Cat. No.
mm	mm	mm		
100	150	0.05	100	9.404 128
150	200	0.05	100	9.404 130
200	320	0.05	100	9.404 140
250	400	0.05	100	9.404 150
250	400	0.10	100	9.404 151
300	500	0.05	100	9.404 152
300	500	0.10	100	9.404 153



### LLG-Pressure-seal bags with write on patch, PE

Transparent. PE. With rim channel seal that can be opened and closed repeatedly, and write-on patch.

LLG Labware

Width	Length	Thickness	PK	Cat. No.
mm	mm	mm		
40	60	0.05	100	9.404 176
40	60	0.05	1000	6.314 360
70	100	0.05	100	9.404 173
70	100	0.05	1000	6.314 361
80	120	0.05	100	9.404 179
80	120	0.05	1000	6.314 362
100	150	0.05	100	9.404 171
100	150	0.05	1000	6.314 357
120	170	0.05	100	9.404 172
120	170	0.05	1000	6.314 358
160	220	0.05	100	9.404 177
160	220	0.05	1000	6.314 359
200	300	0.05	100	9.404 178
200	300	0.05	1000	6.314 363



### LLG-Pressure-seal bags, PE

Transparent. PE. With rim channel seal that can be opened and closed repeatedly.

LLG Labware

Width	Length	Thickness	PK	Cat. No.
mm	mm	mm		
80	120	0.05	100	9.404 160
100	150	0.05	100	9.404 161
120	170	0.05	100	9.404 162
150	220	0.05	100	9.404 163
180	250	0.05	100	9.404 164
200	300	0.05	100	9.404 165
220	310	0.05	100	6.304 307
250	350	0.05	100	9.404 166
300	400	0.05	100	9.404 167





**LLG-Safety Eyeshields *basic***



LLG Labware



- CE approved to EN166 and EN170
- Ideal as visitor glasses; perfect as over googles for spectacle wearers
- Integrated side lens with venting, 180° visual field
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Weight: 43 g

Colour	Lens	PK	Cat. No.
Clear	Clear, uncoated, 2-1.2 U 1 F CE	10	9.006 002

**LLG-Safety Eyeshields *basic +***

LLG Labware



- CE approved to EN 166 and EN 170
- Economic Safety Eyeshields ideal for essential protection
- 180° field of vision
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Especially light
- Weight: 23 g

Colour	Lens	PK	Cat. No.
Clear	Clear, uncoated, 2-1.2 U 1 F CE	10	6.290 868

**LLG-Safety Eyeshields *classic***

LLG Labware



- CE approved to EN166 and EN170
- Integrated side-lenses with vents, 180° field of vision
- Frame made of tested hypo-allergenic material
- Side arms adjustable in length and inclination
- 100% UV protection (up to 380 nm)
- Weight: 34 g only

Colour	Lens	PK	Cat. No.
Blue	Clear, anti-scratch lens, 2C-1.2 U 1 F CE	1	9.006 001

**LLG-Safety Eyeshields *comfort***

LLG Labware



- CE approved to EN166, EN170
- Panoramic wrapping lens
- 180° field of vision
- Frame made of tested hypo-allergenic material
- Side arms adjustable in length
- Nose pad and arm tips are made from soft, mouldable material offer optimal comfort and individual customisation
- Rubber eyebrow protection for greater shock absorption
- 100% UV protection (up to 400 nm)
- Lightweight: 30 g only

Colour	Lens	PK	Cat. No.
black/green	clear, anti-scratch plus and anti-fog lens plus, 2C-1.2 U 1 FT CE	1	6.312 450



### LLG-Safety Eyeshields lady

- CE approved to EN 166 and EN 170
- Panoramic wrapping lens
- 180° visual field
- Frame made of tested hypo-allergenic material
- Temples with rubber tips, adjustable in length and inclination
- Nosepad and terminal tips made from soft, moldable material for optimal comfort and individual customisation
- High performance coating extremely anti-scratch and anti-fog from both sides (even when wearing a mask)
- Good performance in changing temperature ranges
- 100% UV protection (up to 400 nm)
- Weight only 25 g

LLG Labware

Colour	Lens	PK	Cat. No.
white/green	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 007
white/pink	clear, AF+, AS+, 2C-1.2 U 1 FT KN CE	1	9.006 008
black/green	clear, AF, AS, 2C-1.2 U 1 FT CE	1	9.006 009



### LLG-Panoramic Eyeshield

- CE approved to EN166 and EN170
- Linear and compact design
- Can be worn over any prescription spectacles
- Wide, fully adjustable headband
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Weight: 84 g

LLG Labware

Colour	Lens	PK	Cat. No.
blue	clear, polycarbonate, 2C-1.2	5	6.284 811
blue	clear, polycarbonate, 2C-1.2	1	6.291 832



### Overgoggles uvex 9161 and uvex 9161 duo-flex®

- Designed to fit over prescription spectacles
- Unlimited side vision through super panorama lenses with a 180° field of view
- Excellent, pressure-free fit
- Effective indirect ventilation through special frame construction with side shields Type 9161 duo-flex®
- Frame can be adjusted four ways for optimal comfort
- Scratch resistant lens, uvex supravision sapphire

Uvex Arbeitsschutz

Type	Colour	Lens	PK	Cat. No.
9161	transparent	transparent, PC lenses	1	9.005 166
9161 duo-flex®	blue/black	transparent, UV 2-1.2	1	9.005 107



### Overgoggles uvex super OTG 9169

The super OTG and the super f OTG are equipped with this state-of-the-art lens technology. Alongside the tried and tested hingeless spectacles and highly flexible soft ear pieces, a hinged design has been developed. The revolutionary new design of the super f OTG with hinge combines all the principles of contemporary spectacles with the advantages of state-of-the-art materials. Both designs are well-suited to any wearer situation, and can also be used as overspecs for prescription wearers. Coating of the lens **1.** uvex supravision sapphire: excellent scratch and chemical resistance, 100% UV protection **2.** uvex supravision excellence: excellent scratch and chemical resistance and easy to clean ( nano clean hybrid )

*Uvex Arbeitsschutz*

Type	Colour	Lens	Coating	PK	Cat. No.
super f OTG	black	PC transparent/UV 2-1.2	1	1	6.252 619
super f OTG	black/white	PC light brown 5-1.4	2	1	4.672 691
super OTG	navy blue	PC transparent/UV 2-1.2	2	1	6.234 320
super OTG	navy blue	PC transparent/UV 2-1.2	1	1	7.650 112
super OTG	black	PC grey /UV 5-2.5	1	1	7.653 307
super OTG	black	PC transparent/UV 2-1.2	1	1	6.258 848



6.252 619



7.650 112



7.653 307

### Lens Tissue Paper

Special paper for cleaning optical glass Packing: 500 pieces/dispenser box *Glaswarenfabrik Karl*

Type	Dimensions	PK	Cat. No.
	mm		
Lens tissue paper	90 x 72	500	6.050 595



### Disposable Face Mask, Profil Plus

Disposable surgical face mask with Earloops, non-sterile, 3-layer non-fiber-glass filter medium. *Unigloves GmbH*

- Three layers of protection
- Soft elastic earloops
- Integrated nosepiece
- Latex free
- Nickel free
- EN 14683 Type II R, CE
- Box with 50 pieces



Colour	Width	Length	PK	Cat. No.
	mm	mm		
blue	95 ± 2	175 ± 2	50	6.316 058
white	95 ± 2	175 ± 2	50	6.316 059
green	95 ± 2	175 ± 2	50	6.316 060
pink	95 ± 2	175 ± 2	50	6.316 244
black	95 ± 2	175 ± 2	50	6.321 449

## Breathing protection/Half masks-Ear protection/Noise protection

### Respirators Aura™ 9300+Gen3, Series, Folding Masks

The 3M™ Aura™ Particulate Respirator 9300+Gen3 Series is now the third generation. The new Cool Flow™ Comfort Valve opens 37% easier than the original Cool Flow™ valve, allowing 36% more air, together with its natural heat, to be expelled more rapidly.

3M Deutschland GmbH



- Cool Flow™ Comfort Valve
- Ease of positioning
- Braided headbands
- Colour coded for easy identification (FFP1 = yellow, FFP2 = blue, FFP3 = red)
- 3M™ Advanced Electret (Filter) Media (AEM)
- Embossed top panel helps re-direct exhaled air, reducing fogging of eyewear
- Large soft nose foam material and smooth inner cover
- Hygienic individual packaging helps protect the respirator from contamination before use
- 3M Safe Guard™ Product Authentication Process

Testing standards: EN 149:2001 + A1:2009.

Type	Protection-level	Description	PK	Cat. No.
Aura™ 9322+Gen3	FFP2	with Cool-Flow valve	10	4.665 369
Aura™ 9332+Gen3	FFP3	with Cool-Flow valve	10	4.665 371

### Respirators Aura™ 9300+ Series, Folding Masks

Particle masks Series 3M™ Aura™ 9300+ offer effective respiratory protection in industrial applications where workers are exposed to dust and/or non-volatile liquid particles.

3M Deutschland GmbH



#### Features and advantages of the Aura™ 9300+ series

- Clear vision: Embossed top panel helps reduce fogging of eyewear
- Low breathing resistance filter technology combines the benefits of 3M's electret particulate filter material with advanced low breathing resistance filter technology
- 3M™ Cool Flow™ Valve effectively removes heat build up to provide a cooler and more comfortable wear
- Innovative chin tab improves ease of donning and adjustment to help achieve a comfortable fit
- Ingenious 3-Panel design fits a wide range of face shapes and sizes to accommodate your facial movements
- Coloured headbands for easy identification: yellow for FFP1, blue for FFP 2 and red for FFP3
- Flat-fold; easy to store when not in use
- Hygienic individual packaging helps protect the respirator from contamination before use

Authorization: EU construction test  
 Testing standards: EN 149:2001 + A1:2009

Type	Description	Protection-level	PK	Cat. No.
Aura™ 9310+	without valve	FFP1	20	9.005 670
Aura™ 9312+	with Cool-Flow valve	FFP1	10	9.005 671
Aura™ 9320+	without valve	FFP2	20	9.005 672
Aura™ 9322+	with Cool-Flow valve	FFP2	10	9.005 673
Aura™ 9330+	without valve	FFP3	20	9.005 674
Aura™ 9332+	with Cool-Flow valve	FFP3	10	9.005 675

### Ear Plugs

Non-allergenic, comfortable polyurethane. Smooth surface, dirt-repellent and hygienic. Conical shape expands to fill the ear canal. Meets EN 352-2 requirements. Available with, or without, connecting cord.

3M Deutschland GmbH



Type	PK	Cat. No.
Without cord	200	9.005 046
With cord	100	9.005 047

**LLG-Disposable Gloves classic, Latex**

LLG Labware

EN ISO 374-1 Type C EN ISO 374-5 EN 420



The ideal glove for all applications which require a high tactile sensitivity.

- Skin-friendly
- Powder-free
- Excellent tactile sensitivity
- High durability due to special formulation
- Cat. III. AQL 1.5.
- Thiuram free, reduced risk of contact eczemas

According to EN ISO 374-1:2016/Type C, EN ISO 374-5:2016, EN 420 Suitable for food handling. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

Glove size	Length mm	Thickness mm	Colour	Powder free	PK	Cat. No.
S	240	0.10	White	Yes	100	9.006 383
M	240	0.10	White	Yes	100	9.006 384
L	240	0.10	White	Yes	100	9.006 385
XL	240	0.10	White	Yes	90	9.006 386

**Disposable Gloves Select Plus, Latex**

Unigloves GmbH

EN ISO 374-1 Type C EN ISO 374-5 EN 420



Non-sterile, powder-free, hypoallergenic, with beaded cuff and micro-roughened surface. EN 455 T 1-4, CE. Type examination test acc. EN 374. Supplied in dispenser box containing 100 gloves. Cat. III. **AQL 1.5** According to EN ISO 374-1:2016/Type C, EN ISO 374-5:2016, EN 420 Food-safe.

Interior finish: Chlorinated

Glove size	Length mm	Colour	Sterile	Powder free	PK	Cat. No.
XS	240	Natural	No	Yes	100	9.005 339
S	240	Natural	No	Yes	100	9.005 340
M	240	Natural	No	Yes	100	9.005 341
L	240	Natural	No	Yes	100	9.005 342
XL	240	Natural	No	Yes	100	9.005 343





### LLG-Disposable Gloves *ergo*, Nitrile, Powder-Free

LLG Labware

EN ISO 374-1 Type B EN ISO 374-5 EN 420



The *ergo* disposable, protective, nitrile gloves combine the comfort and "feel" of latex with the physical and chemical endurance of nitrile, with no risk of allergies. The ideal glove for all applications requiring high tactile sensation and protection against chemicals.

- **Thin - very comfortable to wear**
- Excellent tactile sensitivity - similar to latex
- Tried and tested quality product made of nitrile
- Excellent resistance to skin irritants in foodstuffs
- Specially formulated for a more resilient glove
- For single use in applications with an increased need for safety when handling chemicals
- Free from phthalates/softeners and allergenic latex proteins
- Easy to wear and particularly skin-friendly through special finishing process
- Colour: Lavender Blue
- Suitable for areas subject to HACCP standards
- Cat. III. **AQL 1.5**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 420 Suitable for food handling. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

Glove size	Length	Thickness	Colour	Powder free	PK	Cat. No.
	mm	mm				
XS	240	0.06	Blue	Yes	200	9.006 370
S	240	0.06	Blue	Yes	200	9.006 371
M	240	0.06	Blue	Yes	200	9.006 372
L	240	0.06	Blue	Yes	200	9.006 373
XL	240	0.06	Blue	Yes	180	9.006 374



### LLG-Disposable Gloves, *standard*, Nitrile, Powder-Free

LLG Labware

EN ISO 374-1 Type B EN ISO 374-5 EN 421 EN 420



Disposable protective glove in nitrile with enhanced comfort in use and greater chemical protection - the standard glove for the laboratory.

- Comfortable to wear
- Good tactile sensitivity
- Tried and tested quality product made of nitrile - excellent resistance to skin irritants in foodstuffs
- More resilience through special formulation
- For single use in applications with an increased need for safety when handling chemicals
- Free from phthalates/softeners and allergenic latex proteins
- Easy to don and particularly skin-friendly through special finishing process
- Colour blue - suitable for areas subject to HACCP standards
- Cat. III. **AQL 1.5**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, EN 420 Suitable for food handling. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

Glove size	Length	Thickness	Colour	Powder free	PK	Cat. No.
	mm	mm				
S	240	0.08	Blue	Yes	100	9.006 375
M	240	0.08	Blue	Yes	100	9.006 376
L	240	0.08	Blue	Yes	100	9.006 377
XL	240	0.08	Blue	Yes	90	9.006 378

**LLG-Disposable Gloves *strong*, Nitrile, Powder-Free**

LLG Labware

EN ISO 374-1 Type B EN ISO 374-5 EN 421 EN 420



Disposable, nitrile, heavy-walled, protective glove offering an enhanced resistance time against many chemicals. A protective glove for applications with higher safety requirements, but providing greater comfort in use than traditional chemical protective gloves.

- **Very sturdy - higher material thickness**
- Tried and tested quality product made of nitrile - excellent resistance to skin irritants in foodstuffs
- More resilience through special formulation
- For single use in applications with an increased need for safety when handling chemicals
- Free from phthalates/softeners and allergenic latex proteins
- Easy to don and particularly skin-friendly through special finishing process
- Colour blue - suitable for areas subject to HACCP standards

Cat. III. **AQL 1.5**. According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, EN 420 Suitable for food handling. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

Glove size	Length mm	Thickness mm	Colour	Powder free	PK	Cat. No.
S	240	0.11	Blue	Yes	100	9.006 379
M	240	0.11	Blue	Yes	100	9.006 380
L	240	0.11	Blue	Yes	100	9.006 381
XL	240	0.11	Blue	Yes	90	9.006 382

**Disposable Gloves Format Blue, Nitrile**

Unigloves GmbH

EN ISO 374-1 Type C EN ISO 374-5 EN 420



Blue, powder-free, non-sterile, rolled edges. Manufactured by EN 455, T. 1-4, EN 374, AQL 1.5, CE. Cat. III Supplied in dispenser box containing 100 gloves. According to EN ISO 374-1:2016/Type C, EN ISO 374-5:2016, EN 420 Suitable for food handling. **AQL 1.5**

Interior finish: Chlorinated

Glove size	Length mm	Colour	Sterile	Powder free	PK	Cat. No.
S	240	Blue	No	Yes	100	9.005 395
M	240	Blue	No	Yes	100	9.005 396
L	240	Blue	No	Yes	100	9.005 397
XL	240	Blue	No	Yes	100	9.005 398



### Disposable Gloves TouchNTuff®, Nitrile

Ansell Healthcare

EN ISO 374-1 Type B EN ISO 374-5 EN 421 EN 1149 EN 420



- Manufactured from nitrile, TouchNTuff® offers up to four times the puncture resistance of comparable natural-latex gloves, and three times the resistance of similar neoprene gloves.
- It contains no natural rubber proteins, which means no risk of Type I allergies for the wearer. Primary skin irritation studies and Insult Patch tests have also shown no evidence of risk from irritation or allergic contact dermatitis.
- With a unique "Thin Nitrile Technology" formulation, this glove offers easy donning and strong grip in wet or dry conditions.
- The glove is highly versatile and suitable for many different uses.
- **AQL 1.5** (EN374)
- Cat. III
- 100% nitrile, powder-free, green, 0.12 mm thick, smooth.
- Supplied in dispenser box containing 100 gloves.

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, EN 420 Suitable for food handling.

Glove size	Length mm	Thickness mm	Colour	Powder free	PK	Cat. No.
S (6.5 - 7)	240	0.12	Green	Yes	100	9.005 400
M (7.5 - 8)	240	0.12	Green	Yes	100	9.005 401
L (8.5 - 9)	240	0.12	Green	Yes	100	9.005 402
XL (9.5 - 10)	240	0.12	Green	Yes	100	9.005 403
S (6.5 - 7)	300	0.12	Green	Yes	100	7.651 232
M (7.5 - 8)	300	0.12	Green	Yes	100	6.236 916
L (8.5 - 9)	300	0.12	Green	Yes	100	6.236 917
XL (9.5 - 10)	300	0.12	Green	Yes	100	7.651 351



### Disposable Gloves Kimtech™ Purple Nitrile™

Kimberly-Clark GmbH

EN ISO 374-1 Type B EN ISO 374-5 EN 420



Offering the highest protection of all Kimtech™ gloves, Purple Nitrile™ gloves are latex-, silicone- and powder-free.

- Contains no natural rubber latex
- Textured fingertip, enhances wet and dry grip
- Powder-free
- Beaded cuff, for added strength and ease in donning
- Unique purple colour provides quick visual differentiation
- Ambidextrous
- Virus Protection
- **AQL 0.65**
- Cat. III

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 420 Suitable for food handling.

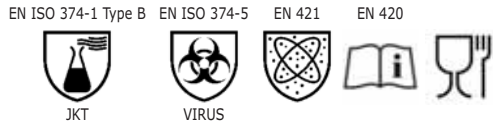
Interior finish: Powder-free

Glove size	Length mm	Thickness mm	Colour	Sterile	PK	Cat. No.
XS	240	0.11	Purple	No	100	9.005 420
S	240	0.11	Purple	No	100	9.005 421
M	240	0.11	Purple	No	100	9.005 422
L	250	0.11	Purple	No	100	9.005 423
XL	250	0.11	Purple	No	90	9.005 424



Disposable Gloves Kimtech™ Purple Nitrile™Xtra™

Kimberly-Clark GmbH



Disposable protective glove in nitrile with enhanced comfort in use and greater chemical protection

- Latex-, silicone- and powder-free
- Ambidextrous
- Beaded cuffs, extralong
- Textured fingertips for very good grip
- Excellent fit
- **AQL 0.65**
- Smallest thickness 0.11 mm
- **Cat III**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, EN 420 Suitable for food handling.

Glove size	Length mm	Thickness mm	Colour	Powder free	PK	Cat. No.
XS	300	0.11	Purple	Yes	50	6.280 034
S	300	0.11	Purple	Yes	50	6.280 035
M	300	0.11	Purple	Yes	50	6.280 036
L	300	0.11	Purple	Yes	50	6.280 037
XL	300	0.11	Purple	Yes	50	6.280 038

Disposable Gloves NeoTouch®, Neoprene

Ansell Healthcare



- With a latex-free formulation, NeoTouch® gloves are appropriate for the prevention of Type I allergies. Because they're powder-free, they also limit the risk of dermatitis for the wearer.
- They provide excellent resistance to acids, bases and alcohols. Thanks to an exclusive formulation, NeoTouch® gloves are convincingly the most comfortable synthetic single-use gloves available today.
- NeoTouch® gloves have a polyurethane inner-coating that ensures easy donning. Their textured fingertips provide a secure grip in both dry and wet conditions. The beaded cuff ensures a secure hold, and their green colour makes them easy to identify.
- NeoTouch® gloves are inspected to an **AQL of 1.5** for pinholes, which matches the legal requirements for medical gloves.
- Cat. III

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, EN 420

Glove size	Length mm	Colour	Powder free	AQL	PK	Cat. No.
S	240	Green	Yes	1.50	100	6.229 608
M	240	Green	Yes	1.50	100	6.229 607
L	240	Green	Yes	1.50	100	6.229 606
XL	240	Green	Yes	1.50	100	6.239 416
S	280	Green	Yes	1.50	100	6.237 656
M	280	Green	Yes	1.50	100	7.619 653
L	280	Green	Yes	1.50	100	6.230 923
XL	280	Green	Yes	1.50	100	6.237 684

### LLG-Glove dispenser for 1 or 3 boxes, acrylic glass

LLG glove dispensers are suitable for glove packs with the dimensions approx. 240 x 75 x 125 mm, with front insert or side slot. High-quality, sturdy design. Mounting material included.

LLG Labware

Description	For	Width	Depth	Height	PK	Cat. No.
		mm	mm	mm		
side slot, sturdy material	1 Box	250	85	136	1	6.286 594
front insert, flexible material	3 Boxes	260	90	405	1	9.405 373
side slot, sturdy material	3 Boxes	280	87	460	1	9.405 374



6.286 594



9.405 373



9.405 374

### Chemical Protection Glove Ultranitriil 381, Nitrile

MAPA GmbH

EN 388 EN ISO 374-1 Type A EN ISO 374-5



3111A



JKLOPT



VIRUS

Chemical protective glove made of nitrile with glued cotton liner for long term comfort. Anatomic shape. Z-pattern-profile for safe grip of wet things. More dexterity due to the glued cotton knit lining, which offers excellent comfort and thermal insulation. Excellent resistance against oils, greases and many solvents. 1 pair per pack.

Glove size	Length	Thickness	Colour	Interior finish	PK	Cat. No.
	mm	mm				
7	355	0.85	Green	Velour liner	1	9.005 206
8	355	0.85	Green	Velour liner	1	9.005 207
9	355	0.85	Green	Velour liner	1	9.005 208
10	355	0.85	Green	Velour liner	1	9.005 209
11	355	0.85	Green	Velour liner	1	9.005 199

### Chemical Protection Glove Butoflex 650

MAPA GmbH

EN 388 EN ISO 374-1 Type A EN ISO 374-5



1121X



ABCILMNOS



VIRUS

The only Butyl glove on the market with an exclusive embossed exterior finish, meaning slippery objects can be handled without risk.

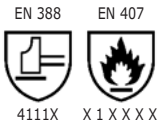
- Exceptional comfort; the first butyl glove on the market with a fabric inner lining
- Ultimate specific chemical resistance, for very corrosive acids, ketones, esters and amine derivatives
- Unrivalled flexibility and dexterity

1 pair per pack.

Glove size	Length	Thickness	Colour	PK	Cat. No.
	mm	mm			
7	350	1.50	Black	1	6.255 225
8	350	1.50	Black	1	6.241 351
9	350	1.50	Black	1	6.285 462
10	350	1.50	Black	1	6.285 460
11	350	1.50	Black	1	6.285 461

## Thermal protection glove TempDex 710 up to 125 °C

MAPA GmbH

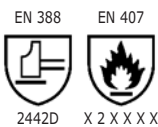


- Thin, anatomically-shaped glove ensures dexterity
- Excellent abrasion resistance: longer lasting
- Dot embossing for better insulation and better grip
- Cat. II

Glove size	Length mm	Temperature resistance	PK	Cat. No.
7	240	125 °C	10	6.285 464
9	260	125 °C	10	6.285 465
11	280	125 °C	10	6.285 463

## Safety Gloves uvex k-basic extra 6658, Cut and Heat-Protection up to +250 °C

Uvex Arbeitsschutz



This coarse-knitted glove made of 100% Kevlar® is lined with cotton, making it ideal for protecting the wearer against heat and cuts. The combination of Kevlar® and cotton guarantees good heat insulation and enables the handling of objects up to +250 °C without losing anything in terms of cut resistance. 1 pair per pack. Characteristics:

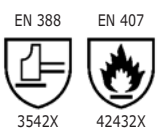
- Very good protection against cut injuries
- Additional cotton cladding
- Comfortable to wear

Applications: metal processing, automotive industry, glass industry, foundries

Glove size	Colour	Temperature resistance	Interior finish	PK	Cat. No.
8	Yellow	250 °C	Jersey	1	9.414 660
10	Yellow	250 °C	Jersey	1	9.414 661
12	Yellow	250 °C	Jersey	1	9.414 662

## Safety Gloves, Heat Protection up to 500 °C

Jutec Hitzeschutz



- 5-finger glove
- Made of aramide fabric with special insulation
- Usable on both sides
- Abrasion resistant
- 1 pair per pack

Length mm	Temperature resistance	PK	Cat. No.
400	500 °C	1	9.006 893



### LLG-Heat/Cold hand protector "TempHand", silicone rubber

Gripper made of red silicone rubber to protect hands when handling hot or cold vessels. Suitable for temperatures from -50 °C up to 250 °C. Two grip openings for quick and easy use. One size fits all, can be used on both sides. With non-slip grip surface.

LLG Labware

Description	PK	Cat. No.
LLG-Heat/Cold hand protector "TempHand"	1	6.322 889



### Protection Gloves Cryo Gloves® Standard, wrist length with knitted cuff

Cryo.Expert GmbH



For protecting hands and arms when working in very low temperatures down to approx.

- 196 °C. Available in wrist-, underarm-, elbow- and shoulder-length versions.
- For work in ultra-low freezers
- For working with dry ice at -79 °C
- Working in the gas phase of liquid nitrogen (without direct contact with liquid nitrogen)
- According to EN 511, EN 420, EN 388, Cat.III
- Pack of 1 pair

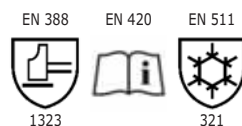
Attention: Not suitable for immersion in cryogenic liquids.

Glove size	Length mm	Temperature resistance	PK	Cat. No.
S	300	-196 °C	1	9.405 116
M	300	-196 °C	1	9.405 117
L	300	-196 °C	1	9.405 118
XL	300	-196 °C	1	9.405 119



### Protection Gloves Cryo Gloves® Waterproof, elbow length

Cryo.Expert GmbH



The original Waterproof CRYO-GLOVES® ensure safe handling of cryogenic liquefied gases. The Waterproof version is 100% waterproof and additionally equipped with a seamless, thermal inner glove that draws moisture away from the hands so that work can be carried out comfortably for longer periods. Caution: Not suitable for immersion in liquid nitrogen or other cryogenic liquids!

Glove size	Length mm	Colour	Temperature resistance	PK	Cat. No.
M	500	Blue	-196 °C	1	9.405 134
L	500	Blue	-196 °C	1	9.405 135
XL	500	Blue	-196 °C	1	9.405 136

### LLG-Laboratory coat, 100% cotton

- Very solid material, excellent wearing comfort
- Snap fasteners (press buttons); easy and quick to open
- With fold-down collar
- One outside breast pocket and two side pockets
- Washable up to 60 °C
- Ladies coat with stitched-down back belt

LLG Labware

Material: 100% cotton  
 Colour: White  
 Weight: 220 g/m<sup>2</sup>

Description	Size	PK	Cat. No.
Ladies coat	36/38	1	9.414 342
Ladies coat	40/42	1	9.414 343
Ladies coat	44/46	1	9.414 344
Mens coat	44/46	1	9.414 345
Mens coat	48	1	9.414 346
Mens coat	50	1	9.414 347
Mens coat	52	1	9.414 348
Mens coat	54	1	9.414 349
Mens coat	56	1	9.414 350



### LLG-Disposable Visitor Gowns, PP

White PP nonwoven 30 g/m<sup>2</sup>, universal size with shirt collar and elastic at the wrists, latex-free, without pocket, 4 push buttons

LLG Labware

Description	PK	Cat. No.
LLG-Visitors gown	50	6.282 796



### Laboratory Coat Tyvek® 500, PL309

Protective coat DuPont™ Tyvek® PL309, size S - XXL, 2 pockets, with zipper, white, PE-Spunbond non-woven. Tyvek® garments are composed of flash spun high density polyethylene, providing an ideal balance of protection, durability and comfort. Tyvek® is permeable to both air and water vapour, yet repels water-based liquids and aerosols. It offers an excellent barrier against fine particles and fibres (down to 1 micron in size), is ultra-low-linting and antistatically treated. Silicon non-added.

DuPont de Nemours

Size	PK	Cat. No.
S	50	9.390 049
M	50	9.390 050
L	50	9.390 051
XL	50	9.390 052



### LLG-Working and chemical protective aprons Guttasyn®, PVC/PE, light grey

PVC front, PE fabric back. With plastic fabric ribbon. For use in chemical and food industry, as well as in health care. PVC surface is easy to clean, hygienic and dirt repellent. Liquids are not absorbed, but run off the surface.

LLG Labware

- Washable up to 60 °C
- PPE category III acc. to EU 2016/425
- Meets the requirements of EN 14605:2005 + A1:2009, EN ISO 13688:2013 (type PB [3] and PB [4])

Colour	Thickness	Width	Length	PK	Cat. No.
	mm	mm	mm		
Light grey	0.45	800	1000	1	4.687 061
Light grey	0.45	800	1200	1	4.687 062
Light grey	0.45	1000	1200	1	4.687 063





**LLG-Disposable Protective Suits, PP**

White PP non-woven 30 g/m<sup>2</sup>, with hood and zipper, elastic band on the hood and on the wrists and ankles, latex-free

LLG Labware

Size	PK	Cat. No.
L	10	6.282 791
XL	10	6.282 792
XXL	10	6.282 793



**LLG-Overall tritex® pro White, Type 5/6, PP**

Particle-tight, and to a limited extent, spray-tight chemical protective clothing.

LLG Labware

The coverall made of 3-layer SMS material (spunbond-meltblown-spunbond) is robust and breathable. A meltblown filter membrane is embedded between two durable outer layers. Comfortable to wear, this coverall is a pleasant, protective companion in many work areas. Special features are the hood, the zipper cover strip, the back rubber element, and the arm and leg rubber elements.

- antistatic
- lint-free
- abrasion resistant
- breathable

**Cat. III/CE 0624/Type 5/6 Coverall individually packed!**

Size	PK	Cat. No.
M	25	6.262 285
L	25	9.413 245
XL	25	9.413 246
XXL	25	9.413 247
XXXL	25	9.413 248



**Disposable Overall AlphaTec® 2000 STANDARD**

Repulsion of less hazardous liquid chemicals, particle protection, pesticide protection and barrier against biological agents. Spray-tight and extremely low-fibre for sensitive environments.

Ansell Healthcare

- Excellent liquid penetration resistance and barrier to fine particulates
- Moisture vapour permeable ("breathable") to help reduce the risk of heat stress
- Silicone free
- Low linting
- Optimised body fit
- Anti-static - Tested according to EN 1149-5

Size	PK	Cat. No.
S	40	4.661 347
M	40	4.661 348
L	40	4.661 349
XL	40	4.661 350
2XL	40	4.661 351
3XL	40	4.661 352
4XL	40	4.661 353
5XL	40	4.661 354

### LLG-Disposable Bouffant Caps, PP

PP nonwoven 10 g/m<sup>2</sup>, universal fit Ø 52 cm, with all-around elastic, latex-free

LLG Labware

Colour	PK	Cat. No.
green	100	6.282 788
white	100	6.282 789
blue	100	6.282 790



### LLG-Disposable Protective Sleeves, PE

- PE film with elastic, latex-free, length 40 cm

LLG Labware

Colour	Thickness µm	PK	Cat. No.
blue	20	100	6.282 797
white	20	100	6.282 798
blue	40	100	6.282 799



### LLG-Disposable overshoes, CPE

Blue embossed CPE film, 30 µm, with elastic, latex-free, universal size, length 41 cm

LLG Labware

Type	PK	Cat. No.
LLG-Disposable overshoes	100	6.282 795



### LLG-Disposable overshoes, PP, with CPE sole

White PP non-woven, 38 g/m<sup>2</sup> with blue, non-slip sole CPE, 38 µm, with elastic, latex-free, universal size, length 40 cm.

LLG Labware

Type	PK	Cat. No.
LLG-Disposable overshoes	50	6.282 794



## Identification of hazards/Safety signs-First-aid/Eye wash bottles

### LLG-GHS Warning Labels, Self-Adhesive, Roll in Dispenser Box

Dispenser box of 250 labels. These labels are produced using an extremely resistant 100 µm PE film. Due to their special surface coating they are resistant to most solvents and excellent for indoor or outdoor use. The strong adhesive, although permanent, can be removed from glass containers without leaving any trace. Trilingual signal word: German, English, French. Available in 2 sizes. LLG Labware



GHS 01 / GHS 02 / GHS 03



GHS 04 / GHS 05 / GHS 06



GHS 07 / GHS 08 / GHS 09

Type	Description	Label	Dimensions	PK	Cat. No.
			mm		
GHS 01	warning	exploding bomb	26 x 37	250	9.105 700
GHS 01	danger	exploding bomb	26 x 37	250	9.105 701
GHS 02	warning	flame	26 x 37	250	9.105 702
GHS 02	danger	flame	26 x 37	250	9.105 703
GHS 03	warning	flame over circle	26 x 37	250	9.105 704
GHS 03	danger	flame over circle	26 x 37	250	9.105 705
GHS 04	warning	gas cylinder	26 x 37	250	9.105 706
GHS 05	warning	corrosive	26 x 37	250	9.105 707
GHS 05	danger	corrosive	26 x 37	250	9.105 708
GHS 06	danger	skull and crossbones	26 x 37	250	9.105 709
GHS 07	warning	exclamation mark	26 x 37	250	9.105 710
GHS 08	warning	health hazard	26 x 37	250	9.105 711
GHS 08	danger	health hazard	26 x 37	250	9.105 712
GHS 09	warning	environment	26 x 37	250	9.105 713
GHS 01	warning	exploding bomb	37 x 52	250	9.105 720
GHS 01	danger	exploding bomb	37 x 52	250	9.105 721
GHS 02	warning	flame	37 x 52	250	9.105 722
GHS 02	danger	flame	37 x 52	250	9.105 723
GHS 03	warning	flame over circle	37 x 52	250	9.105 724
GHS 03	danger	flame over circle	37 x 52	250	9.105 725
GHS 04	warning	gas cylinder	37 x 52	250	9.105 726
GHS 05	warning	corrosive	37 x 52	250	9.105 727
GHS 05	danger	corrosive	37 x 52	250	9.105 728
GHS 06	danger	skull and crossbones	37 x 52	250	9.105 729
GHS 07	warning	exclamation mark	37 x 52	250	9.105 730
GHS 08	warning	health hazard	37 x 52	250	9.105 731
GHS 08	danger	health hazard	37 x 52	250	9.105 732
GHS 09	warning	environment	37 x 52	250	9.105 733

### Eye-Wash Bottle, Barikos KS

Barikos KS and Mini Barikos KS are maintenance-free models of eye wash bottles. BartelsRieger

Containing water, they can be kept ready for use for at least two years in the sealed state.

Both models are ideal for first aid boxes and sets. All above mentioned Barikos eyewash bottles comply with EN 15154-4. A protective cover clips onto the spray head of the eye wash bottle thus preventing any leakage. All bottles with sliding valve are suitable for use with upright and with the downward spray head.

- Filled eyewash bottle, ph-neutral eyewash on water basis without chemical additives
- Ergonomically shaped eye recess



Description	PK	Cat. No.
Barikos KS, 620 ml, filled	1	9.005 009
Mini Barikos KS, 175 ml, filled	1	9.005 008

### Accessoires for Eye-Wash Bottle, Barikos

BartelsRieger

Description	PK	Cat. No.
Barikos K / KS wall unit for 1 eye wash bottle, plastic coated steel wire	1	9.005 015
Barikos K / KS wall unit for 2 eye wash bottles, plastic with transparent lid	1	9.005 017
Barikos K / KS wall unit for 1 eye wash bottle, plastic with transparent lid	1	6.076 057



9.005 017



6.076 057



### Eye Wash Bottle, 0.9 % NaCl, Sterile

- choice of 0.2 litre (washing time approx. 2 minutes) or 0.5 litre (washing time approx. 5 minutes) bottles
- Duo wash bottle for both eyes 1000 ml (washing time approx. 5 minutes)
- Ergonomic eye cup - keeps the eyes open during application
- Saline solution (0.9%), conforming to the natural salinity of the eye
- According to DIN EN 15154-4
- Shelf life: 3 years

B-Safety GmbH

**Applications:**

- Mobile application
- Transportation of dangerous goods acc. GGVS
- Emergency medication
- First-aid boxes
- Refill unit for eye wash emergency station
- NEW: eye wash bottle DUO for simultaneous washing of both eyes

Description	PK	Cat. No.
Eye wash bottle 0,9% NaCl, 200ml	1	9.733 794
Spare eyewash bottle, 0,9% NaCl, 500ml	1	9.733 793
Eye wash bottle DUO 0,9% NaCl, 1000ml	1	6.240 397



### Eyewash Bottle pH-neutral

A small, handy bottle containing 4.9 % sterile phosphate buffer solution, that neutralises the eye's fluid after accidents involving acids and alkalies.

B-Safety GmbH

- shelf life: 3 years
- rinsing time: about 2 minutes
- according to DIN EN 15154-4

**Applications:**

- mobile application
- emergency medication
- First-aid boxes
- refill unit for eye wash emergency station

NEW: eye wash bottle DUO for simultaneous washing of both eyes.

Description	PK	Cat. No.
Eyewash bottle, pH neutral, 200 ml, single	1	9.733 788
Eyewash bottle pH neutral DUO, 500 ml	1	9.733 817



### Eyewash Emergency Station, Wall-Mounting

A dust-proof wall mounted station containing one bottle of 200 ml sterile phosphate buffer solution and one bottle of 500 ml sterile sodium chloride solution complete with instructions and a mirror or eye wash emergency station DUO with one bottle of 500 ml sterile phosphate buffer solution and one bottle of 1000 ml sterile sodium chloride solution. Especially suitable for workplaces where on the spot rinsing is required, smaller workplaces. Bottles according to DIN EN 15154-4.

B-Safety GmbH

- Dimensions eye wash station (W x D x H): 227 x 110 x 265 mm
- Dimensions eye wash station DUO (W x D x H): 250 x 115 x 355 mm
- Durability: 3 years
- Flush time: about 7 minutes

Description	PK	Cat. No.
Eyewash emergency station, wall-mounting	1	9.733 787
Eyewash emergency station DUO, for both eyes, wall-mounting	1	6.253 311



9.733 787



### LLG-Autoclavable bags, PP

Constructed from very strong PP film with a broad seam at the bottom. For the disposal of contaminated labware. When autoclaving, the neck of the bag must be left open.  
Film thickness: 50 µm.

LLG Labware

Description	Width mm	Length mm	Capacity litres	auto- clavable at	Package contents	PK	Cat. No.
standard	200	300	1.5	134 °C	Dispenser box of 100 bags	100	9.404 099
standard	300	500	6.0	134 °C	Box of 500 bags	500	9.404 220
standard	400	780	22.0	134 °C	Box of 250 bags	250	9.404 221
standard	500	780	25.0	134 °C	Box of 250 bags	250	9.404 222
standard	600	780	32.0	134 °C	Box of 250 bags	250	9.404 223
standard	600	780	32.0	134 °C	Box of 100 bags	100	9.404 103
standard	700	1100	72.0	134 °C	Box of 250 bags	250	9.404 224
standard	700	1100	72.0	134 °C	Box of 75 bags	75	9.404 105
highly transparent	200	300	1.5	121 °C	Dispenser box of 100 bags	100	9.404 020
highly transparent	300	500	6.0	121 °C	Box of 500 bags	500	9.404 100
highly transparent	400	780	22.0	121 °C	Box of 500 bags	500	9.404 101
highly transparent	600	800	32.0	121 °C	Box of 500 bags	500	9.404 102
highly transparent	700	1100	72.0	121 °C	Box of 350 bags	350	9.404 104



### LLG-Autoclavable Bags, PP, with Biohazard printing

LLG Labware



Autoclavable bags imprinted with biohazard labelling. Made of polypropylene. Strong side seams for securely holding items. Front write-on panel. Autoclavable.



Width mm	Length mm	Capacity litres	Colour	Description	Thickness µm	PK	Cat. No.
310	660	12	transparent		45	50	9.404 050
415	600	14	transparent		45	50	9.404 051
610	810	35	transparent		45	50	9.404 052
500	600	20	red	with sterilisation indicator	50	200	6.285 813
630	890	40	red	with sterilisation indicator	50	200	6.285 814
910	1150	80	red	with sterilisation indicator	50	100	6.285 815



### Waste Bags, HDPE

Bel-Art Products



HDPE. With adhesive strips. Can be fixed anywhere, e.g. walls and tables etc. Without holder.  
Carrying weight approx. 1.36 kg.  
- ASTM 1709 and ASTM 1922  
- Autoclavable (121 °C)

Width mm	Length mm	PK	Cat. No.
203	254	50	9.404 065
305	406	50	9.404 066



### Waste sacks, PP

BRAND GMBH + CO.KG



For collecting and discarding used disposables. Caution: Never put sharp objects such as needles into plastic bags. Risk of injury! Bags must be open during sterilisation. Please order stand separately.  
- Autoclavable (to 121 °C)

Dimensions (WxH)	Colour	PK	Cat. No.
200 x 300 mm	Transparent	100	7.636 831

### Holder for Waste Sacks

**Warning:** Never place sharp objects such as hypodermic needles, etc., in plastic bags!  
Always steam-sterilize bags unsealed. Injury hazard!

BRAND GMBH + CO.KG

- White
- Steel wire
- Epoxy resin coating
- With rubber feets



Description	Int. diam. mm	Height mm	PK	Cat. No.
Stand	120	250	1	7.060 716

### Quick-Lock Ties

Red. Polyethylene, round, can be reopened. Further colours available on request.

Würrt. Allplastik



Ø	Length	PK	Cat. No.
mm	mm		
3.5	120	1000	9.404 182
3.5	180	1000	9.404 184
3.9	240	1000	9.404 186
4.4	320	1000	6.235 096

### Cable Ties

Nylon, flat, single use - cannot be reopened

Würrt. Allplastik



Colour	Width mm	Length mm	PK	Cat. No.
Natural	2.5	98	1000	9.404 303
Natural	2.5	135	1000	9.404 305
Natural	2.6	160	100	6.311 824
Natural	2.6	200	1000	9.404 307
Natural	3.5	140	1000	9.404 309
Natural	3.5	200	1000	9.404 314
Natural	3.5	290	500	9.404 310
Natural	4.5	160	1000	9.404 311
Natural	4.8	250	100	9.404 316
Natural	7.8	300	100	9.404 326

### Needles and waste containers Medibox®

Sharps disposal containers complying with EN ISO 23907.

B. Braun Deutschland

- No-touch, twist-off and insertion inlets
- For all kinds of used luer and luer-lock needles as well as pen needles
- Large opening to ease the insertion of various medical sharps
- Irreversible final lock mechanism
- Easy to use temporary closure
- Overfill warning by maximum fill line



Capacity litres	Filling volume L	Dimensions (W x D x H) mm	PK	Cat. No.
0,8	0,67	98 x 98 x 180	9	6.321 710
2,4	2,0	151 x 151 x 200	9	6.321 707
4,7	3,9	190 x 190 x 200	5	6.321 708
5,7	4,8	190 x 190 x 257	5	6.321 709



### LLG-Absorbent, oil and chemical binder, granules

Universal chemical and oil binder for all liquids, also for solvents. Very high absorption capacity (up to 1:75 of aqueous solutions). Almost dust-free granules with colour indicator: colour changes to yellow in contact with acids, to red in contact with alkalis. Disposal according to the pollutant recorded. The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

LLG Labware

Capacity	Package	PK	Cat. No.
<b>kg</b>			
0.45	Laboratory bottle	1	4.682 249
1.50	Square handle bottle	1	6.283 037
5.00	Bucket	1	6.270 479



### LLG-Desiccant drying agents, silica gel, self-indicating

With orange indicator colour. Grain size 1 to 3 mm or 2 to 5 mm. Self-indicating drying agent free from any heavy metals and therefore environmentally compatible. The gel is naturally orange when active and at a 6 weight-% saturation level. As the gel adsorbs moisture, the colour changes into green. The range of application is identical with that of white silica gel. The colour change, however, represents a great advantage since it allows monitoring of the saturation level. The gel can be regenerated when heated at a temperature of maximum 120 °C until it turns to its original orange colour. The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

LLG Labware

Granulation	Package contents	PK	Cat. No.
1 to 3 mm	Tin, 1 kg	1	9.042 584
1 to 3 mm	Bucket, 3 kg	1	9.042 585
1 to 3 mm	Bucket, 8 kg	1	9.042 586
1 to 3 mm	Carton box, 25 kg	1	9.042 587
2 to 5 mm	Tin, 1 kg	1	9.042 581
2 to 5 mm	Bucket, 3 kg	1	9.042 582
2 to 5 mm	Bucket, 8 kg	1	9.042 583

### LLG-Trolleys, Stainless Steel

Made of CNS 18/10, material no. 1.4301, with micro-polished surface. All shelves are produced with an all round raised profile edge. This prevents anything from slipping over the edge. The shelves are welded to the car. The load capacity per shelf is 80 kg. A noise-insulation mat is mounted on the bottom side of each shelf. The round tubes at the front edges are used as handgrips. The trolleys are equipped with galvanized steel castors (4 swivel castors, 2 with brakes, castor diam. 125 mm) which are inserted in the tubular frame. Wall bumpers made of plastic (polyamide) on all four corners protect against damage.

LLG Labware



Description	Width	Depth	Height	PK	Cat. No.
	mm	mm	mm		
2 shelves, vertical spacing 585 mm	900	600	950	1	9.148 101
3 Shelves, vertical spacing 275 mm	900	600	950	1	9.148 104

### Laboratory Trolley clax Mobil comfort with Box

Rauschenberger Innovations



Stable, multi-use trolley with parking brake. Push-button collapsing/unfolding. Made in Germany.



#### Load capacity

Total: 60 kg  
 Upper shelf: 20 kg  
 Lower shelf: 40 kg

#### Dimensions and weight

unfolded (L x W x H): 900 x 580 x 1020 mm  
 collapsed (L x W x H): Weight without box: 710 x 550 x 190 mm 6.9 kg

#### Folding box dimensions

Inner dimensions (W x D x H): 335 x 495 x 258 mm  
 Outer dimensions (W x D x H): 350 x 500 x 260 mm

Type	PK	Cat. No.
Laboratory Trolley clax Mobil comfort, incl. 1 clax folding box, 46 litres	1	9.148 100

**LLG-Lab Chair**



LLG Labware

Entry model for healthy sitting! The permanent contact backrest provides best support when working sitting down in the laboratory. The generously proportioned seat and backrest with integrated lumbar support provide additional support and therefore offer best laboratory ergonomics.

- Minimal joints: Hygienic design for easy cleaning and disinfection
- Resistant to disinfectants and chemicals: Resistant to all of the usual disinfectants and chemicals.
- Seat and backrest upholstery made of artificial leather (soft and comfortable, washable and antibacterial) or soft-touch PU foam (extremely robust, washable and antibacterial) in black.
- Quick adjustment: Every function can be operated comfortably and easy in sitting position.
- Seat height adjustment by gas spring.
- Permanent contact backrest.
- Backrest adjustable in height and inclination.
- Solid black plastic star base, flat design.
- The chrome-plated foot ring for the high chairs provides support through the wide tread area and can easily and quickly be adjusted in height.
- With certificate "Tested Safety" (GS mark).
- 10 years warranty, Made in Germany.



Accessories: Multifunctional armrests (pair): Adjustable in height, width and depth as well as swivelling.

Type	Material	Description	Seat height adjustment	PK	Cat. No.
			<b>mm</b>		
LLG-Lab Chair	PU Foam	Castors	440-620	1	6.287 750
LLG-Lab Chair	PU Foam	Glides, Foot Ring	580-850	1	6.287 751
LLG-Lab Chair	PU Foam	Stop and Go Castors, Foot Ring	620-890	1	6.287 752
LLG-Lab Chair	Artificial Leather	Castors	440-620	1	6.287 753
LLG-Lab Chair	Artificial Leather	Glides, Foot Ring	580-850	1	6.287 754
LLG-Lab Chair	Artificial Leather	Stop and Go Castors, Foot Ring	620-890	1	6.287 755
Armrests				1	6.287 756

**LLG-Lab Stool**



LLG Labware

The extra-large seat provides optimum comfort. The solid black plastic star base and the upholstery edge protector that runs all the way round guarantee a long working life. The practical gas spring system with easy ring control allows a comfortable seat height adjustment.

- Resistant to all of the usual disinfectants and chemicals
- Seat upholstery made of artificial leather, 400 mm diameter (soft and comfortable, washable and antibacterial) or soft-touch PU foam, 350 mm diameter (extremely robust, washable and antibacterial) in black
- Extra-large seat: Encourages healthy posture and upright seating in the laboratory
- Round front edge of the seat: Prevents blocked circulation in the thighs
- Seat height adjustment by gas spring
- Practical ring release: The height adjustment can be operated comfortably and easily in sitting position
- Solid black plastic star base, flat design
- The chrome-plated foot ring for the high chairs provides support through the wide tread area and can be easily and quickly adjusted in height
- With certificate "Tested Safety" (GS mark)
- 10 years warranty, Made in Germany



Type	Material	Description	Seat height adjustment	PK	Cat. No.
			<b>mm</b>		
LLG-Lab Stool	PU foam	Castors	460 ... 630	1	6.287 757
LLG-Lab Stool	PU foam	Castors, foot ring	600 ... 880	1	6.314 807
LLG-Lab Stool	PU foam	Glides, foot ring	570 ... 850	1	6.287 759
LLG-Lab Stool	Artificial leather	Castors	460 ... 630	1	6.287 758
LLG-Lab Stool	Artificial leather	Glides, foot ring	570 ... 850	1	6.287 760



### LLG-Universal indicator paper, rolls

For the determination of pH values. Plastic dispensing reel with 1 roll of 5 m.

LLG Labware

Range	Description	PK	Cat. No.
<b>pH</b>			
1 ... 11	Dispensing reel with 1 roll	1	9.129 800
1 ... 14	Dispensing reel with 1 roll	10	4.667 570
1 ... 11	Dispensing reel with 1 roll	10	4.667 572
1 ... 11	Refill packs with 3 rolls	3	9.129 801
1 ... 14	Refill packs with 3 rolls	3	9.129 803



### LLG-Universal indicator paper, strips

For determination of pH value. Vial with snap lid of 100 pre-cut indicator paper strips.

LLG Labware

Range	Package contents	PK	Cat. No.
<b>pH</b>			
1 ... 14	100 strips per vial with snap lid	100	9.129 805



### Universal indicator papers

For determination of pH- value. Plastic dispensing reel with 1 roll of indicator paper and colour scale.

Macherey-Nagel GmbH

Range	Description	PK	Cat. No.
<b>pH</b>			
1 ... 11	Dispensing reel with 1 roll	1	9.130 200
1 ... 14	Dispensing reel with 1 roll	1	9.130 210
1 ... 11	Refill packs with 3 rolls	3	9.130 203
1 ... 14	Refill packs with 3 rolls	3	9.130 213

Further indicatorpapers available on request.



### Indicator paper, Tritest

For determination of pH-value. Roll length 5m, 10mm width. With three colour zones, without hydrophobic zone. Plastic container with 1 roll of indicator paper and colour scale.

Macherey-Nagel GmbH

Range	Description	PK	Cat. No.
<b>pH</b>			
1 ... 11	Dispensing reel with 1 roll	1	9.130 367
1 ... 11	Refill packs with 3 rolls	3	9.130 368

### LLG-Indicator paper sticks

For pH determination. Indicator paper sticks of 80 mm length.

LLG Labware



Range	Package contents	PK	Cat. No.
<b>pH</b>			
0 ... 14	100 sticks per pack	1000	4.667 571
0 ... 6	100 sticks per pack	100	6.322 833
5.5 ... 9	100 sticks per pack	100	6.322 832

### LLG-Universal Indicator strips "Premium", in vial with snap lid

Flip-top vial is easy to open and close with one hand. The new LLG pH strips offer the utmost in convenience and ease of use in laboratory-grade testing. With a single colour match, and a 12 mm reagent pad, these universal pH strips (0.0-14.0) belong in every lab.

LLG Labware



- pH measuring range: 0 - 14
- 12 mm matching area for quick matches,
- Flip-top vial stays closed when dropped, but is easy to open with one-hand.
- Vial keeps strips safe from the elements
- 1 pack (vial) of 100 strips

Range	Package contents	PK	Cat. No.
<b>pH</b>			
0 ... 14	100 strips per vial with snap lid	100	9.129 808

### pH-Fix indicator strips, universal

For determination of pH- value. Permanent colour. Non bleeding.

Macherey-Nagel GmbH

Range	PK	Cat. No.
<b>pH</b>		
0.0 ... 6.0	100	9.130 382
0 ... 14	100	9.130 381
0 ... 14 PT*	100	9.130 379
7.0 ... 14.0	100	9.130 384

\* PlopTop tube.



### pH-Fix indicator strips, special

For determination of pH- value. Permanent colour. Non bleeding.

Macherey-Nagel GmbH

Range	PK	Cat. No.
<b>pH</b>		
0.3 ... 2.3	100	9.130 385
1.7 ... 3.8	100	9.130 386
2.0 ... 9.0	100	9.130 380
3.1 ... 8.3	100	9.130 377
3.6 ... 6.1	100	9.130 387
4.0 ... 7.0	100	6.280 450
4.5 ... 10.0	100	9.130 383
5.1 ... 7.2	100	9.130 388
6.0 ... 7.7	100	9.130 389
6.0 ... 10.0	100	9.130 392
7.5 ... 9.5	100	9.130 390
7.9 ... 9.8	100	9.130 391



### Indicator paper, PEHANON®

For determination of pH-value in coloured solutions. Supplied in packs of 200, 11 x 100 mm W x L strips.

Macherey-Nagel GmbH

Range	PK	Cat. No.
<b>pH</b>		
1 ... 12	200	9.130 657
0 ... 1.8	200	9.130 658
1.0 ... 2.8	200	9.130 651
1.8 ... 3.8	200	9.130 652
2.8 ... 4.6	200	9.130 656
3.8 ... 5.5	200	9.130 603
4.0 ... 9.0	200	9.130 659
5.2 ... 6.8	200	9.130 605
6.0 ... 8.1	200	9.130 626
7.2 ... 8.8	200	9.130 660
8.0 ... 9.7	200	9.130 366
9.5 ... 12.0	200	9.130 661
10.5 ... 13.0	200	9.130 663
12.0 ... 14.0	200	9.130 666





### LLG-pH buffer solutions

The ready-to-use pH buffer solutions offer high quality and precision.

LLG Labware

- Tolerance  $\pm 0.01$ , tested and certified at 20 °C
- Batch number, expiry date, and temperature dependence data table printed on the label
- Traceable to NIST (SRM)
- pH 9 and 10 are borax-free

The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

pH-value	Buffer	Capacity	PK	Cat. No.
<b>at 20 °C</b>		<b>ml</b>		
4.00	Citrate	1000	1	4.664 603
7.00	Phosphate	1000	1	9.041 368
9.00		1000	1	6.324 547
10.00		1000	1	6.324 542



### LLG-pH buffer solutions with colour coding in twin-neck dispensing bottles

The ready-to-use pH buffer solutions offer high quality and precision. The integrated calibration vessel of the twin-neck dispensing bottles allows the economical dispensing of the solution and prevents contamination.

LLG Labware

- Accuracy  $\pm 0.01$ , tested and certified at 25 °C
- Temperature dependence data table printed on the label
- Traceable to NIST
- Shelf-life: 24 months (pH 7) or 36 months (pH 4) from date of production
- pH 10 is borax-free
- Colour-coded

The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

pH-value	Colour	Capacity	PK	Cat. No.
<b>at 25 °C</b>		<b>ml</b>		
4.00	Red	250	1	9.040 868
7.00	Yellow	250	1	9.040 869
10.00	Blue	250	1	6.324 541



### LLG-pH buffer solutions with colour coding

The ready-to-use pH buffer solutions offer excellent quality, precision and are designed to suit all end-user requirements. Supplied in colour-coded 1 l bottles to eliminate any risk of confusion.

LLG Labware

- Accuracy  $\pm 0.01$ , tested and certified at 25 °C
- Temperature dependence data table printed on the label
- Traceable to NIST
- pH 10 is borax-free

The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

pH-value	Colour	Capacity	PK	Cat. No.
<b>at 25 °C</b>		<b>ml</b>		
4.00	Red	1000	1	9.040 865
7.00	Yellow	1000	1	9.040 866
10.00	Blue	1000	1	6.324 540

### Standard buffer solutions

To DIN/NIST. Supplied in 250ml bottles. Tolerance  $\pm 0.02$  pH.

Xylem Analytics Germany



pH-value	Capacity	PK	Cat. No.
<b>at 25 °C</b>		<b>ml</b>	
1.68	250	1	9.040 741
4.01	250	1	9.040 744
6.87	250	1	9.040 746
9.18	250	1	9.040 749
12.47	250	1	9.040 752



**Warning**

H phrases: H319



### Buffer solutions

Sealed sachets in boxes as indicated. For single use only. Packaging ensures that buffer solution is always fresh, has not been used before and is not contaminated.

Mettler-Toledo Online



pH-value at 25 °C	Volume ml	Tolerance ± ml	PK	Cat. No.
4.01/7.00/9.21	20	0.02	30	9.041 813
4.01/7.00/10.01	20	0.02	30	9.041 814
4.01	20	0.02	30	9.041 816
7.00	20	0.02	30	9.041 817
9.21	20	0.02	30	9.041 818
10.01	20	0.02	30	9.041 815
2.00	20	0.02	30	7.661 134
11.00	20	0.02	30	7.661 269



**Warning**  
H phrases: H315|H319|H335

### Technical buffer solutions

Identified by colour-coded labels. Tolerance ±0.03 pH.

Xylem Analytics Germany

pH-value at 25 °C	Capacity ml	PK	Cat. No.
2.00	1000	1	9.040 721
4.01	50	1	9.040 734
4.01	250	1	9.040 727
4.01	1000	1	9.040 722
7.00	50	1	9.040 735
7.00	250	1	9.040 728
7.00	1000	1	9.040 723
10.01	50	1	6.229 060
10.01	250	1	7.401 072
10.01	1000	1	9.040 725
20 x 4.01 / 20 x 6.87 / 20 x 9.18	1200	1	6.226 818



### pH buffer solutions

Technical, NIST/DIN and certified buffer solutions for calibrating pH electrodes. Tolerance: ±0.02 pH

Mettler-Toledo Online

pH-value at 25 °C	Type	Volume ml	PK	Cat. No.
2.00	Technical	250	6	6.901 695
2.00	Technical	1000	1	9.041 862
4.01	Technical	250	6	9.041 854
4.01	Technical	1000	1	9.041 864
7.00	Technical	250	6	9.041 857
7.00	Technical	1000	1	9.041 867
9.21	Technical	250	6	9.041 859
11.00	Technical	250	6	6.201 985
9.21	Technical	1000	1	9.041 869
10.00	Technical	250	6	9.041 860
10.00	Technical	1000	1	9.041 870
1.679	NIST/DIN	250	1	9.041 821
7.413	NIST/DIN	250	1	9.041 827
10.012	NIST/DIN	250	1	9.041 830
4.01	Certified	250	6	6.231 893
7.00	Certified	250	6	6.231 894
9.21	Certified	250	6	6.251 408
10.00	Certified	250	1	6.238 998
5.00	Technical	250	1	4.679 281
8.00	Technical	250	1	4.679 284
1.679	NIST/DIN	250	1	4.679 285
12.454	NIST/DIN	250	1	4.679 286
6.865	NBS/DIN	250	6	6.201 308
9.180	NBS/DIN	250	6	6.250 443
4.006	NBS/DIN	250	6	6.250 450



**Danger**  
H phrases: H314

### Cleaning solution

Xylem Analytics Germany

Type	Description	Capacity ml	PK	Cat. No.
RL-G	Cleaning solution for galvanic oxygen sensors	30	1	9.822 552



**Warning**  
H phrases: H315|H319



### LLG-Electrolyte solutions, KCl

Potassium chloride electrolyte for pH electrodes - Filling solution for reference electrolyte. The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

LLG Labware

Type	Capacity	PK	Cat. No.
	ml		
3 mol/l	1000	1	9.041 370
3 mol/l	250	1	9.041 371
3 mol/l, (AgCl saturated.)	250	1	9.041 372



### KCL electrolyte solutions

For refilling or replacing reference electrolyte. Supplied in 250 ml DURAN® bottles.

Xylem Analytics Germany

Type	Description	Capacity	PK	Cat. No.
		ml		
L 2114	2 mol/l KNO <sub>3</sub> + 0.001 mol/l KCl for Ag-probes	250	1	9.041 072
L 3004	Potassium chloride solution 3 mol/l, sterilized	250	1	9.041 092
L 3014	Potassium chloride solution 3 mol/l, Ag/AgCl saturated	250	1	9.041 036



### Storage solution InLab®

Storage solution for pH and ORP electrodes.

Mettler-Toledo Online

Description	Capacity	PK	Cat. No.
	ml		
Storage solution InLab®	250	1	6.264 638



### LLG-Conductivity Solutions

- Values stated at 25 °C: Accuracy ±1%
- Directly traceable to NIST
- Certificate including actual value, expiration date and uncertainty of measurement

LLG Labware

The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

Type	Capacity	PK	Cat. No.
	ml		
84 µS/cm	500	1	9.040 861
147 µS/cm	500	1	9.040 862
1413 µS/cm	500	1	9.040 863
12880 µS/cm	500	1	9.040 864

### Conductivity Standards

Conductivity standards tested and ISO 17025 certified at 25 °C. Uncertainty of measurement of ±1%. Directly traceable to N.I.S.T. Temperature dependence data is printed on the label as are lot numbers and expiry dates. Supplied in 500 ml HDPE bottle. 1.3 µS/cm in 250 ml bottle. Calibration values 84, 147, 1413, 12880 µS/cm. Control Values 1.3 - 350000 µS/cm. *Reagecon Diagnostics*

Type	Capacity	PK	Cat. No.
µS/cm	ml		
1.3*	250	1	6.225 059
5	500	1	6.901 629
10	500	1	6.901 622
20	500	1	6.802 901
23.8	500	1	6.259 883
50	500	1	6.074 754
84	500	1	9.040 904
100	500	1	6.234 859
147	500	1	9.040 905
200	500	1	6.802 902
500	500	1	6.205 415
1000	500	1	6.901 670
1413	500	1	9.040 906
3000	500	1	9.040 964
5000	500	1	6.205 412
10000	500	1	6.901 671
12880	500	1	9.040 907
50000	500	1	6.210 129
100000	500	1	6.205 413
350000	500	1	9.040 987

\*1.25 - 1.35 µS/cm at 25 °C.



### LLG-Weighing scoops, porcelain

Glazed. Temperature resistant up to 900 °C. *LLG Labware*

Dimensions (WxL)	PK	Cat. No.
37 x 37 mm	1	9.115 350
23 x 53 mm	1	6.241 255
64 x 64 mm	1	9.115 351



### Weighing scoops, glass

Made of high quality Borosilicate glass 3.3. Ideal for powders or granules which are dispensed via the tubular stem. Funnel shape for loss-free ejection of the weighing sample. *Scherf Präzision*

Nominal capacity	PK	Cat. No.
ml		
3	1	9.301 066
6	1	9.301 067
10	1	9.301 068



### Weighing boat parchment paper, Kjeldahl 609, nitrogen-free

Ideal for weighing and transporting all types of sample. Especially for determination of nitrogen according to Kjeldahl (e.g. determination of total protein content in foodstuff). Made of nitrogen-free parchment paper. Can be dropped into the Kjeldahl flask and be dissolved together with the sample. *Cytiva Europe GmbH*

Dimensions (WxL)	PK	Cat. No.
10 x 55 mm	100	9.069 011



### Weighing boats MN 808, Paper, nitrogen-free

Pack of 100 pieces. Other sizes and weighing aids available on request. *Macherey-Nagel GmbH*

Dimensions (WxL)	PK	Cat. No.
10 x 58 mm	100	9.301 069





### LLG-Weighing paper

- Not treated with nitrogen during production
- Smooth surface
- 45 g/m<sup>2</sup> paper
- Block of 500 sheets

LLG Labware

Dimensions (D x W) mm	PK	Cat. No.
76 x 76	500	6.272 246
102 x 102	500	6.272 247
152 x 152	500	6.272 248



### Weighing paper MN 226

Transparent, smooth. 40 g/m<sup>2</sup> paper Block of 100 sheets. Further weighing aids available on request.

Macherey-Nagel GmbH

Type	Width mm	Length mm	PK	Cat. No.
MN 226	90	115	100	9.058 975



### Playing card rejects

Standard size for use as disposable sample carriers or spatulas. Pack size: 1 kg, not sorted.

Cartamundi Deutschland

Type	PK	Cat. No.
Printed and laminated on both sides	1	9.190 940



### LLG-Weighing bottles with NS lid, Borosilicate glass 3.3

With writing area. Available in tall or low shape.

LLG Labware

Nominal capacity ml	Shape	Dimension (ØxH)	Ground size	PK	Cat. No.
3	Low	25 x 25 mm	NS19/12	1	9.300 151
10	Low	35 x 30 mm	NS29/12	1	9.300 152
11	Low	40 x 25 mm	NS34,5/12	1	9.300 150
20	Low	50 x 30 mm	NS45/12	1	9.300 153
29	Low	60 x 30 mm	NS50/12	1	9.300 154
9	Tall	25 x 40 mm	NS19/12	1	9.300 160
19	Tall	30 x 50 mm	NS24/12	1	9.300 161
42	Tall	35 x 70 mm	NS29/12	1	9.300 162
66	Tall	40 x 80 mm	NS34,5/12	1	9.300 163
105	Tall	50 x 80 mm	NS45/12	1	9.300 164



### Weighing bottles DURAN® tube, with NS stopper

DIN 12605. With white inscription label. Burned-in imprint of capacity and size. Available in high or low shape.

Lenz-Laborglas GmbH

Nominal capacity ml	Shape	Dimension (ØxH)	Ground size	PK	Cat. No.
6	Low	25 x 25 mm	NS24/12	1	9.300 022
15	Low	40 x 25 mm	NS40/12	1	9.300 021
15	Low	35 x 30 mm	NS34/12	1	9.300 023
30	Low	50 x 30 mm	NS50/12	1	9.300 032
45	Low	60 x 30 mm	NS60/12	1	9.300 037
80	Low	80 x 30 mm	NS80/12	1	9.300 041
10	Tall	25 x 40 mm	NS24/12	1	9.300 113
30	Tall	40 x 50 mm	NS40/12	1	9.300 357
45	Tall	35 x 70 mm	NS34/12	1	9.300 123
70	Tall	40 x 80 mm	NS40/12	1	9.300 124
110	Tall	50 x 80 mm	NS50/12	1	9.300 127



### LLG-Sample dishes, Aluminium

High quality aluminium sample dishes, for moisture determination.

LLG Labware

Dimension (ØxH)	PK	Cat. No.
90 x 7 mm	80	6.282 670
100 x 7 mm	80	6.265 408

**LLG-Sample dishes, Aluminium, with rim**

High quality aluminium sample dishes, for moisture determination.

LLG Labware

Dimension (ØxH)	PK	Cat. No.
100 x 7 mm	80	6.281 537



**LLG-Weighing dishes, aluminium**

Made from oil-free, lightweight aluminium. With a flanged, crimped wall for rigidity. Finger-tab handle can be etched for identification prior to weighing. Thickness 0.3 mm.

LLG Labware

Dimension (ØxH)	PK	Cat. No.
43 x 12 mm	100	6.238 138
57 x 14 mm	100	6.238 139
70 x 16 mm	100	6.238 140



**LLG-Weighing dishes, aluminium**

Made from oil-free, lightweight aluminium. With a flanged, crimped wall for rigidity.

LLG Labware

Dimension (ØxH)	PK	Cat. No.
101 x 8 mm	50	6.236 854



**LLG-Weighing boats, PS, diamond, antistatic**

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range from -10 to 70 °C. Can be used with microwave moisture analysers. Features a diamond shape that easily flexes for accurate pouring and a wide, flat bottom to resist tipping. For research and development only.

LLG Labware

Nominal capacity ml	Dimensions (WxDxH)	Colour	PK	Cat. No.
5	55 x 35 x 6 mm	White	1000	9.900 788
30	85 x 65 x 14 mm	White	500	9.950 194
100	125 x 100 x 19 mm	White	250	9.950 195
5	55 x 35 x 6 mm	Black	1000	9.900 801
30	85 x 65 x 14 mm	Black	500	9.950 196
100	125 x 100 x 19 mm	Black	250	9.950 197



**LLG-Hexagonal weighing boats, PS, antistatic**

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range -10 to 70 °C. Can be used with microwave moisture analysers. Bend flexible boats at points to form pour spouts. Flat bottoms to resist tipping. Sloping sides provide accurate transfer.

LLG Labware

Nominal capacity ml	Dimensions (WxDxH)	Colour	PK	Cat. No.
6	38 x 25 x 9 mm	White	500	9.900 893
46	64 x 51 x 20 mm	White	500	9.900 894
194	102 x 76 x 22 mm	White	500	9.900 895
364	127 x 89 x 31 mm	White	500	9.900 896



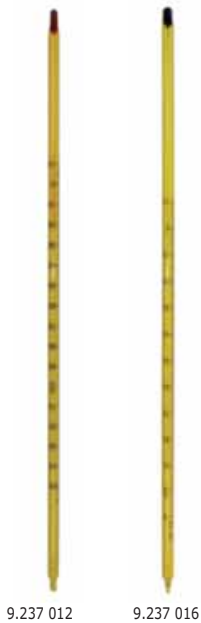
**LLG-Weighing boats, PS, square, antistatic**

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range from -10 to 70 °C. Can be used with microwave moisture analysers. Boats are shallow with a wide, flat bottom to resist tipping. Rounded corners simplify transfer. For research and development only.

LLG Labware

Nominal capacity ml	Dimensions (WxDxH)	Colour	PK	Cat. No.
7	44 x 44 x 8 mm	White	1000	9.900 785
100	80 x 80 x 24 mm	White	1000	9.900 786
250	140 x 140 x 22 mm	White	1000	9.900 787
7	44 x 44 x 8 mm	Black	1000	9.900 789
100	80 x 80 x 24 mm	Black	1000	9.900 791
250	140 x 140 x 22 mm	Black	1000	9.900 800





### LLG-General purpose thermometers *economy*

Solid stem, with loop, capillary yellow enameled, graduation resistant against acids and alkalis. Red filling or environmentally friendly blue filling.

LLG Labware

Measuring range °C	Graduations °C	Length mm	Ø mm	Immersion depth	Charge colour	PK	Cat. No.
-10 ... 50	1	300	6	Total	Red	1	9.237 010
-10 ... 100	1	300	6	Total	Red	1	9.237 011
-10 ... 150	1	300	6	Total	Red	1	9.237 012
-10 ... 200	1	300	6	Total	Red	1	9.237 013
0 ... 250	1	300	6	Total	Red	1	9.237 014
-10 ... 110	1	300	6	76 mm	Blue	1	9.237 015
-10 ... 110	0.5	300	6	76 mm	Blue	1	9.237 016
-10 ... 150	1	300	6	76 mm	Blue	1	9.237 017
0 ... 250	1	300	6	76 mm	Blue	1	9.237 018
0 ... 360	2	300	6	76 mm	Blue	1	9.237 019

### LLG-General-purpose thermometers, red filling

Enclosed-scale type, with eyelet. With uncoated, prismatic measuring capillary. Red spirit filling (except 9.235 265: blue).

LLG Labware

Measuring range °C	Graduations °C	Length mm	Ø mm	Immersion depth	PK	Cat. No.
-10/0 ... 50	1	200	7 ... 8	Total	1	9.235 245
-10/0 ... 100	1	260	7 ... 8	Total	1	9.235 250
-10/0 ... 150	1	260	7 ... 8	Total	1	9.235 255
-10/0 ... 200*	1	300	7 ... 8	Total	1	9.235 260
-10/0 ... 250*	1	300	7 ... 8	Total	1	9.235 265

\* Note: With these types the colour can fade after extended periods of use at higher temperatures.

### LLG-General purpose thermometer, red filling

Graduation resistant against acids and alkalies.

LLG Labware

Measuring range °C	Graduations °C	Length mm	Ø mm	Immersion depth	Capillary	PK	Cat. No.
-35 ... 50	1	300	6 ±1	Total	White enameled, round	1	9.236 720
-20 ... 110	1	300	6 ±1	Total	White enameled, round	1	6.206 594
-20 ... 150	1	300	6 ±1	Total	White enameled, round	1	9.236 723
-20 ... 150	1	300	6 ±1	76 mm	White enameled, round	1	9.236 731
-10 ... 110	1	260	6 ±1	Total	Yellow enameled, round	1	9.236 721
-10 ... 110	1	270	6 ±1	76 mm	Yellow enameled, round	1	9.236 727
-10 ... 150	1	260	6 ±1	Total	Yellow enameled, round	1	9.236 722
-10 ... 200	1	300	6 ±1	Total	Yellow enameled, round	1	9.236 724
-10 ... 200	1	300	6 ±1	Total	White enameled, round	1	9.236 725
-10 ... 200	1	300	6 ±1	76mm	White enameled, round	1	9.236 730
-10 ... 250	1	300	6 ±1	Total	Yellow enameled, round	1	9.236 726

### LLG-Precision thermometer, calibratable, red filling

Capillary: yellow enameled, round.

LLG Labware

Measuring range °C	Graduations °C	Length mm	Ø mm	PK	Cat. No.
-50 ... 50	1.0	280	6 ±1	1	9.236 800
-10 ... 100	1.0	305	6 ±1	1	9.236 783
-10 ... 150	1.0	305	6 ±1	1	9.236 784
-10 ... 200	1.0	350	6 ±1	1	9.236 788
-50 ... 50	0.5	300	6 ±1	1	9.236 801
-10 ... 100	0.5	270	6 ±1	1	9.236 785
-10 ... 150	0.5	350	6 ±1	1	9.236 786
-1 ... 101	0.1	610	6 ±1	1	9.236 790
-0 ... 50	0.1	420	6 ±1	1	9.236 787

### LLG-Low temperature thermometers, -200 to 30 °C

Suitable for official calibration. Enclosed scale type, 8 to 9mm diameter, with translucent glass scale and Richter seal. Prismatic, uncoated measuring capillary. The -200 to 30 °C thermometer has a luminous blue measuring capillary, and is pentane filled. Further thermometers are available, red toluene filled with uncoated measuring capillary. Graduated every 1 °C. LLG Labware

Measuring range °C	Length mm	PK	Cat. No.
-50 ... 50	300	1	9.235 705
-100 ... 30	300	1	9.235 710
-200 ... 30	300	1	9.235 720



### Thermometers, standard ground joint

With NS 14.5/23 cone. Enclosed-scale type, Translucent glass scale. Upper section approx. 11 mm diameter, lower section 7.5 mm diameter. Richter-top finish seal without button. Suitable for official calibration. Amarell GmbH & Co

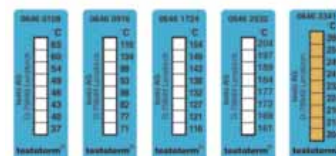
Measuring range °C	Graduations °C	Corpus mm	Immersion depth mm	Charge colour	PK	Cat. No.
-10 ... 150	1.0	250	52	Red	1	9.236 021
-10 ... 150	0.5	350	52	Red	1	9.236 022
-10 ... 150	1.0	250	77	Red	1	9.236 025
-10 ... 150	0.5	350	77	Red	1	9.236 026
-10 ... 250	1.0	300	52	Blue	1	9.236 023
-10 ... 250	1.0	300	77	Blue	1	9.236 027
-10 ... 360	1.0	350	52	Green	1	9.236 024
-10 ... 360	1.0	350	77	Green	1	9.236 028



### 8-step irreversible temperature strips testoterm®

Strips for 8 temperatures. 5 types cover the measuring range 37 to 260 °C, each strip displays 8 different temperatures. Each strip measures 50 x 18 mm. Testo SE & CO KGaA

Measuring range °C	PK	Cat. No.
37 ... 65	10	9.246 002
71 ... 110	10	9.246 003
116 ... 154	10	9.246 004
161 ... 204	10	9.246 005
204 ... 260	10	9.246 006



### Min./Max.-Thermometer

- Ivory plastic
- With push button
- Mercury-free

TFA Dostmann GmbH

Type	Dimensions mm	Weight g	PK	Cat. No.
Min. / Max.-Thermometer, beige	85 x 45 x 232	88	1	9.241 134



### LLG-Min./Max. Thermometer with outdoor sensor

Digital thermometer with outdoor sensor. LLG Labware

- Two-tier LCD display
- Measuring temperature range -50 °C to 70 °C, can be switched to °F
- Display resolution 0.1 °C
- Accuracy ±1 °C
- Dimensions 110 x 70 x 20 mm
- Display size 40 x 30 mm
- AAA 1.5 V battery included
- Length of the cable 190 cm

Type	PK	Cat. No.
LLG Min./Max. Thermometer with outdoor sensor	1	9.243 165



## Thermometers/Laboratory thermometers-Surface, Insertion thermometers



### Laboratory Max./Min. thermometer

Display of current, highest and lowest temperature, hold function, alarm at freely adjustable temperature values optical and audibly (upper/lower limit), selectable °C/°F readout. Supplied with table stand and magnet. 3V Lithium CR2032 button cell (acc. to EN 13485).

DOSTMANN electronic

#### Specifications

	LT101   LT102
Sensor: Resolution:	NTC 0.1 °C
Response time t90:	appr. 15 seconds in water
Dimensions (L x W x H):	86 x 57 x 30 mm
Sensor tube (L x diam.):	100 x 3.5 mm   30 x 5 mm
Weight:	100 g

Type	Measuring range °C	Accuracy (±) °C	Cable m	PK	Cat. No.
LT101	-40 ... 200	2	1	1	6.234 373
LT102	-50 ... 70	1	3	1	9.851 022

### LLG-Insertion thermometer, Type 12060, digital

Measuring range -50 to +150 °C, accuracy ±1 °C. With hold function. Probe made of stainless steel, 125 x 3.5 mm, with protective plastic sleeve and clip, with battery 1 x 1.5 V (LR44). Dimensions (L x W): 60 x 20 mm.

LLG Labware



Type	PK	Cat. No.
LLG-Insertion thermometer, Type 12060, digital	1	9.236 701

### LLG-Insertion thermometer, Type 12070, digital

Measuring range -50 to +300 °C, accuracy ±1 °C until 150 °C, above ±2 °C. With hold function. Probe 200 x 3.5 mm with tip made of stainless steel, with adjustable protective plastic sleeve and clip, with battery 1 x 1.5 V (LR44). Dimensions (L x W): 78 x 25 mm.

LLG Labware



Type	PK	Cat. No.
LLG-Insertion thermometer, Type 12070, digital	1	9.236 702

### LLG-Insertion thermometer, Type 12050, digital

Measuring range -50 to +150 °C, accuracy ±1 °C. Probe made of stainless steel, 120 x 3.5 mm, with protective plastic sleeve and clip, with battery 1 x 1.5 V (LR44). Overall dimensions (L x W): 75 x 20 mm.

LLG Labware



Type	PK	Cat. No.
LLG-Insertion thermometer, Type 12050, digital	1	9.236 706

### Thermometer Pocket-Digitemp

Waterproof instrument in plastic housing (food-grade). Low budget, durable instrument for measuring temperature in air, gas, liquid and ductile substances (acc. to EN 13485). **Range of applications:** Food (HACCP), industry, agriculture

DOSTMANN electronic

- 1-second measuring frequency
- Max-Min-Hold function
- °C/°F-selectable

Sensor:	NTC
Measuring range:	-40 °C to 200 °C
Resolution:	0.1 °C
Accuracy:	±0.8 °C (at 0 °C to 100 °C) others 1.5 °C
Dimensions:	202 x 20 x 16 mm (long version) 150 x 20 x 16 mm (short version)
Probe dimensions:	126 x 3.5 mm (long version) 75 x 3.5 mm (short version)
Weight:	40 g
IP code:	IP65

Type	PK	Cat. No.
Short version	1	9.851 028
Long version	1	9.851 029





### Digital hand held thermometer TTX 200

For measuring the core temperature with fixed probe with cable and handle. Xylem Analytics Germany

- Very large display with large figures
- Easy handling, easy to read
- Replaceable battery
- Factory calibration certificate

**Specifications**

Temperature range: Resolution:	-30 ... +199.9 °C 0.1 °C
Accuracy:	±0.5 °C (-30 ... +100 °C), otherwise ±1%
Temperature sensor:	Type T
Sensor length/diam.: Cable length:	120 mm/3 mm 600 mm
Housing:	ABS
Working temperature:	-20 .. +60 °C
Storage temperature:	-30 .. +70 °C
Dimensions (L x W x H):	127 x 60 x 16 mm (without sensor)
Weight:	approx. 220 g
Power supply:	CR 2032
Battery life time:	approx. 100 h (continuous use)
Protection class:	IP 55



Type	PK	Cat. No.
TTX 200	1	6.291 272

### Digital hand held thermometer Type 12200

Waterproof. Measuring range -50 to +300 °C/-58 to +572 °F, accuracy ±1 °C until 150 °C above ±2 °C. With hold function and Max/Min function. Penetration probe made of stainless steel, 140 x 3.5 mm with 1 m cable and handle. With battery 1 x 1.5 V AAA. Ludwig Schneider  
 Overall dimensions (L x W): 140 x 75 mm.



Type	PK	Cat. No.
Digital hand held thermometer Type 12200	1	9.236 705

### Disposable data logger TempMate-S1

The single-use data logger TempMate-S1 with its built-in USB connector, is the ideal solution for low-cost temperature monitoring of transports. TempMate-PDF loggers directly useable with pre-programmed configuration or reprogrammable with Tempbase Software according to each customer's specifications. To download the recorded data, simply connect TempMate-S1 directly to the USB port. A PDF and CSV report will automatically be generated, covering temperature graph, detailed data list and statistical information. No hardware (cable, interface) or software is required. DOSTMANN electronic



- Auto generating PDF and CSV format data report
- 110 days run time 16000 measurements, 10 minuteinterval
- Reprogrammable with Tempbase Software free of charge
- Up to 5 alarm points configurable
- Integrated USB connector
- LED Alarm indicators
- Serial number sticker
- Inclusive certificate
- Food proof according to HACCP

**Specifications**

Temperature range:	-30 ... 70 °C
Accuracy:	±0.5 °C at -20 ... +40 °C/±1.0 °C in remaining range
Resolution:	0.1 °C
Data memory:	16000 measurements
Recording cycle:	110 days
Sampling interval:	10 min
Shelf life:	24 months
Dimensions (L x W x H):	80 x 47 x 7 mm
Weight:	14.6 g
IP code:	IP 67/NEMA 6
Certifications:	Calibration Certificate, EN 12830 S, T, C, D, 1

Type	PK	Cat. No.
TempMate-S1	1	6.285 049



7.655 865



6.266 910



6.266 911

### Standard PDF Data Logger EBI 300

PDF data logger with different temperature sensors.

*Xylem Analytics Germany*

- For temperature monitoring related to HACCP/IFS issues or other perishable goods
- Transportation of fresh, cool and deep cool products
- Monitoring of fridges and deep freezers
- Evaluation without software, PDF are automatically generated
- Minimise training, user errors and IT costs using EBI 300's simple, easy to use design and standard software
- Ensure data integrity since no data manipulation is possible
- EN 12830, ATP, VO(EG) 37/2005 Compliant
- Factory calibration certificate included
- Programmable via the free online configurator at [www.ebi300.com](http://www.ebi300.com)
- No separate interface for programming and reading

**EBI 300:** PDF data logger with internal temperature sensor

**EBI 300 TE:** PDF data logger with external temperature sensor, internal temperature sensor can be used additionally

**EBI 300 TH:** PDF data logger with external humidity and temperature sensor, internal temperature sensor can also be used

### Specifications

Ambient Temperature: Measuring range Temp. EBI

300/300 TH: Measuring range Temp. EBI 300 TE:

Measuring range Humidity EBI 300 TH:

Accuracy Temperature:

Accuracy Humidity:

Resolution Temperature/Humidity: Memory: Sensor:

Battery life time:

Measuring period:

Maximum Start Delay:

Housing material:

Measuring modes:

Alarms:

Weight:

IP code:

-30 to +70 °C -30 to +70 °C -35 to +70 °C

0 to 100% r.F.

±0.5 °C (-20 to +40 °C), ±0.8 °C for remaining range

±3% (10 to 90% rh), ±5% for remaining range

0.1°C/0.1% rh 40.000 samples NTC for temperature

up to two years

1 minute to 24 hours

72 h

Polycarbonate

Start/Stop, endless loop, start with button

2 values, high and low limits

35 g

IP 65

Type	PK	Cat. No.
EBI 300	1	7.655 865
EBI 300 TH	1	6.266 910
EBI 300 TE	1	6.266 911



### Interval timer with alarm

Benchtop mechanical timer. Suitable for standing, hanging and in addition on the back of two magnets, which allows the fitting of metal parts. Casing and rotary setting knob are white, the dial is black. Running time max. 60mins. Metal movement.

*EUROTIME Uhrenvert.*

Type	PK	Cat. No.
Interval timer with alarm	1	9.260 020



### LLG-Short period timer with alarm

Easy-to-use combination timer and stopwatch, with large display and alarm function from/up to 99 min. and 59 sec. With magnet for easy fixing. Battery LR 44 inclusive.

*LLG Labware*

Dimensions (Ø x H): 54 x 16.5 mm

Weight: approx.40 g

Type	PK	Cat. No.
LLG-Short period timer with alarm	1	9.260 150

### LLG-Timer pro

**The LLG-Timer pro can be used simultaneously as real time clock and timer.**

LLG Labware

The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 82 x 68 x 20.5 mm  
 Weight (with battery): 82 g  
 Power supply: 2 x AAA 1.5 V (not included)  
 Warranty: 12 months



Type	PK	Cat. No.
LLG-timer pro	1	6.311 351

### LLG-Dual-Timer, 2-channel

**The LLG-Dual-Timer offers two separate timers in one instrument.**

LLG Labware

One fixed time can be stored per channel.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch with tenths of a second
- Stopwatch and countdown up to 99 h 59 min. 59 sec
- Optical (red LED) and acoustic alarm (2 volume levels), when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 97 x 79 x 21 mm  
 Weight (with battery): 95 g  
 Power supply: 2 x AAA 1.5 V (not included)  
 Warranty: 12 months



Type	PK	Cat. No.
LLG-Dual-Timer	1	6.311 350

### LLG-Timer Triple pro

**The LLG-Timer Triple pro offers three separate timers in one instrument.**

LLG Labware

One time can be stored per channel. This Timer can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

- Big 6-digit LCD display
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Dimensions (W x H x D): 68 x 88.7 x 16.2 mm  
 Weight (with battery): 87 g  
 Power supply: 2 x AAA 1.5 V (not included)  
 Warranty: 12 months



Type	PK	Cat. No.
LLG-Timer Triple pro	1	6.313 417



### LLG-Magnetic stirring bars, cylindrical, PTFE, eco pack

Circular, smooth and PTFE-coated. Packaging size: 10 pieces

LLG Labware

Ø	Length	PK	Cat. No.
mm	mm		
6.0	10.0	10	9.198 910
3.0	12.0	10	9.198 766
6.0	15.0	10	9.198 919
6.0	20.0	10	9.198 920
6.0	25.0	10	9.198 925
8.0	25.0	10	9.198 767
6.0	30.0	10	9.198 930
6.0	35.0	10	9.198 935
8.0	40.0	10	9.198 940
8.0	45.0	10	9.198 945
8.0	50.0	10	9.198 950
9.0	60.0	10	9.198 960
9.0	70.0	10	9.198 970
9.0	80.0	10	9.198 980



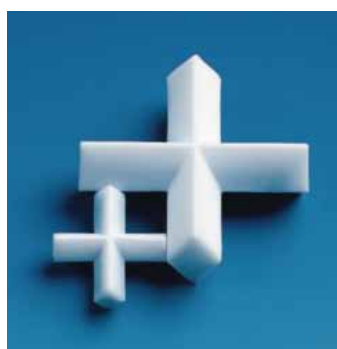
### Magnetic stirring bars ASTEROID, triangular, PTFE



2mag AG

More than 4x higher torque transmissible. Unbeatably enhanced mixing effect in comparison to conventional stirring bars. Strong, stable, long-lasting magnetic field, with no demagnetization effect. Concave design for minimal surface contact and reliable rotation, triangular shape for powerful shear force and enhanced mixing at lower rotational speeds. Significantly higher rotation speeds achievable, high quality, even and sealed PTFE encapsulation. Conform to FDA requirements, steam sterilisable at 121 °C. Multiple enhancements against all types of magnetic stirrers.

Length	Height	PK	Cat. No.
mm	mm		
25.0	12	1	9.646 057
40.0	32	1	9.646 040
70.0	39	1	9.646 058



### Magnetic stirring bars, PTFE, cross shape

- Steady spinning position
- Good stirring action

BRAND GMBH + CO.KG

Length	Height	PK	Cat. No.
mm	mm		
10.0	5	10	4.688 928
20.0	9	10	4.688 080
25.0	10	10	4.689 060
30.0	12	10	4.689 061
38.0	15	10	4.689 062

### LLG-Magnetic Stirring Bar Retrievers, PTFE

PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance. For the removal of stirring bars from aggressive liquids, prevents loss of stirring bars. Lower end diameter 10 mm.

LLG Labware

Ø	Length	PK	Cat. No.
mm	mm		
8	150	1	9.197 717
8	250	1	9.197 725
8	300	1	4.008 501
8	350	1	9.197 735



Disposable samplers for solids, HDPE



Bürkle GmbH

In numerous situations, rapid and contamination-free samples have to be taken. DispoSamplers are perfect for this application. They are cleanroom manufactured, individually packed and always ready to use. Avoid expensive decontamination or cleaning of soiled samplers. Gamma sterilised versions are also available.

**MultiDispo:** For free-flowing powders and small-grain granulates. Easy emptying through opening in the handle.

**ZoneDispo:** For free-flowing powders and small-grain granulates. Collected sample can be transported in closed sampler.

**TargetDispo:** For taking target-point samples from powders and granulates.

**PowderDispo:** For taking cross-section samples of powdery or slightly cohesive substances.

**DispoPicker:** For taking cross-section samples from powders and small-grain granulates. With closed tip.

**DispoLance:** For direct removal and filling of free-flowing powders and small-grain granulates.

**MicroDispo:** For free-flowing powders and small-grain bulk materials. For small sample quantities (10 ml).



6.282 439



6.282 452



6.282 458

Type	Description	Volume	Length	PK	Cat. No.
		ml	mm		
MultiDispo	sterile	100	500	20	6.282 440
MultiDispo	non-sterile	100	500	20	6.282 439
MultiDispo	sterile	200	1000	20	6.282 442
MultiDispo	non-sterile	200	1000	20	6.282 441
ZoneDispo	sterile	100	500	20	6.269 015
ZoneDispo	non-sterile	100	500	20	7.655 427
ZoneDispo	sterile	200	1000	20	6.282 438
ZoneDispo	non-sterile	200	1000	20	6.257 764
TargetDispo	sterile	100	500	20	6.282 444
TargetDispo	non-sterile	100	500	20	6.282 443
TargetDispo	sterile	200	1000	20	6.282 446
TargetDispo	non-sterile	200	1000	20	6.282 445
PowderDispo	sterile	60	300	20	6.282 453
PowderDispo	non-sterile	60	300	20	6.282 452
PowderDispo	sterile	100	500	20	6.259 428
PowderDispo	non-sterile	100	500	20	9.303 736
DispoPicker	sterile	60	300	20	6.282 455
DispoPicker	non-sterile	60	300	20	6.282 454
DispoPicker	sterile	100	500	20	6.282 457
DispoPicker	non-sterile	100	500	20	6.282 456
DispoLance	sterile		300	20	6.282 459
DispoLance	non-sterile		300	20	6.282 458
DispoLance	sterile		500	20	6.282 461
DispoLance	non-sterile		500	20	6.282 460
MicroDispo	sterile	10	500	20	9.303 729
MicroDispo	non-sterile	10	500	20	9.303 728
MicroDispo	sterile	10	1000	20	9.303 731
MicroDispo	non-sterile	10	1000	20	9.303 730

Disposable spatulas LaboPlast®/ SteriPlast®, PS



Bürkle GmbH

White. Due to their long, ergonomic and solid handles and pointed blades they can be easily pierced into paper and plastic bags. The spatulas are ideal for sampling of powder, granules and pastes. The spatulas are also available with a transparent sheath to close them immediately after the sampling procedure to secure a sterile and contamination-free sample.

- Individually packed
- SteriPlast® additionally gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Material: PS

Type	Sterile	Length	Imm. depth	Version	PK	Cat. No.
		mm				
LaboPlast®	-	263	150	without sheath	10	6.265 035
LaboPlast®	-	268	150	with sheath	10	6.265 036
SteriPlast®	+	263	150	without sheath	10	6.265 047
SteriPlast®	+	268	150	with sheath	10	6.265 048





### Disposable spatulas LaboPlast® Bio/SteriPlast®Bio, Green PE

Bürkle GmbH



White. Due to their long, ergonomic and solid handles and pointed blades they can be easily pierced into paper and plastic bags. The spatulas are ideal for sampling of powder, granules and pastes. The LaboPlast® Bio/SteriPlast® Bio products are entirely made of renewable resources. Not only with regard to quality but also with regard to its characteristics for high-quality sampling, it is perfectly comparable with conventional polyethylene.

- Individually packed
- SteriPlast®Bio additionally gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Sterile	Length mm	Imm. depth mm	Material	PK	Cat. No.
LaboPlast® Bio	-	263	150	Green PE	10	6.265 062
SteriPlast® Bio	+	263	150	Green PE	10	6.265 061



### Disposable spatulas for foodstuffs SteriPlast®, PS

Bürkle GmbH



Blue. As a result of the long, ergonomically-shaped, stable handle and a sharp blade, it is possible to even penetrate directly into containers such as paper or plastic sacks. The spatula for foodstuffs is ideal for sampling powders, granulates and pastes. The shade of blue that is used does not occur in a natural form in foodstuffs. Because of this, the spatulas or parts of them can be quickly found and easily identified in a visual check if they are ever mixed into production. The detectable spatulas have a special additive in the material that makes them visible to metal detectors or X rays. They can therefore be rejected with standard systems for checking for foreign objects, even though they are made of plastic.

- Individually packed, gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guideline

Description	Length mm	Imm. depth mm	PK	Cat. No.
Visual identification	263	150	10	6.284 559
Detectable	263	150	10	6.284 570

### Anti-tamper seal-it, self-adhesive roll

Bürkle GmbH

If a container opening is closed with Seal-it, then the container cannot be opened without destroying the seal-it label. Seal-it is additionally provided with several cross-perforations which immediately tear when manipulated like a motorcar tax disc. Seal-it can be used to securely seal bottles, sample bags, sacks, specimen bags, envelopes, etc. The white labelling field on the seal-it can be written on with all conventional writing tools with, for example contents information, sampling date, name of operator, etc.

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

Type	PK	Cat. No.
Seal-it	500	7.622 477



### Control seals for sampling close-it

White/plain or coloured with labelling field . close-it has a sandwich-type structure (aluminium/ paper) and seals the container hermetically (vapour barrier). The rear of the label is coated with a powerful adhesive. This means that close-it sticks firmly to most commercial containers, even to surfaces coated with fine powder, slightly moist or even frozen surfaces where conventional labels or adhesive tape will not stick. close-it food & pharma ensures as well the necessary success when resealing sample openings, as it reliably prevents products from escaping after sampling. The adhesive complies with the European guidelines for foodstuffs and FDA guidelines. Just like the original, close-it food & pharma has a barrier layer of aluminium foil, which makes the close-it food & pharma perfectly suited to sampling foodstuffs, pharmaceuticals, cosmetics, food additives, even frozen goods - any applications in which the product must not be contaminated by contact with the adhesive.

Bürkle GmbH



Type	Description	Colour	PK	Cat. No.
close-it	Printed, 95 x 95 mm	Red	500	9.303 910
close-it	Printed, 95 x 95 mm	Green	500	9.303 911
close-it	Printed, 95 x 95mm	Yellow	500	9.303 912
close-it	Printed, 95 x 95 mm	Blue	500	9.303 913
close-it	Printed, 95 x 95 mm	Black	500	9.303 914
close-it	Plain, 95 x 95 mm	White	500	9.303 915
Roller for close-it	-	-	1	9.303 919
close-it Maxi	Printed, 150 x 150 mm	Red	250	9.303 980
close-it Maxi	Printed, 150 x 150 mm	Green	250	9.303 981
close-it Maxi	Printed, 150 x 150 mm	Yellow	250	9.303 982
close-it Maxi	Printed, 150 x 150 mm	Blue	250	9.303 983
close-it Maxi	Printed, 150 x 150 mm	Black	250	9.303 984
close-it Maxi	Plain, 150 x 150 mm	White	250	9.303 985
Roller for close-it Maxi	-	-	1	9.303 989
close-it food & pharma	Printed, 95 x 95 mm	Red	500	6.228 255
close-it food & pharma	Printed, 95 x 95 mm	Green	500	9.303 998
close-it food & pharma	Printed, 95 x 95 mm	Yellow	500	9.303 996
close-it food & pharma	Printed, 95 x 95 mm	Blue	500	9.303 997
close-it food & pharma	Printed, 95 x 95 mm	Black	500	9.303 999
close-it food & pharma	Plain, 95 x 95 mm	White	500	9.303 986
close-it food & pharma Maxi	Printed, 150 x 150 mm	Red	250	9.303 990
close-it food & pharma Maxi	Plain, 150 x 150 mm	White	250	9.303 991
close-it food & pharma Maxi	Printed, Roll, 150 mm x 150 mm	yellow	250	9.304 000
close-it food & pharma Maxi	Printed, Roll, 150 mm x 150 mm	blue	250	9.304 001
close-it food & pharma Maxi	Printed, Roll, 150 mm x 150 mm	green	250	9.304 002
close-it food & pharma Maxi	Printed, Roll, 150 mm x 150 mm	black	250	9.304 003
close-it tape	Roll, 95 mm x 50 m	White	50	9.303 992
close-it tape Maxi	Roll, 150 mm x 50 m	White	50	9.303 993
close-it tape food & pharma	Roll, 95 mm x 50 m	White	50	9.303 994
close-it tape food & pharma Maxi	Roll, 150 mm x 50 m	White	50	9.303 995

### Disposable scoops LaboPlast®/SteriPlast®, PS

They are ideal for sampling of powder, granules and pastes.

Bürkle GmbH

- Individually packed
- SteriPlast® additionally gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines



Type	Nominal capacity	Overall length	Colour	PK	Cat. No.
	ml	mm			
LaboPlast®	25	141	White	10	6.265 025
LaboPlast®	50	160	White	10	6.265 027
LaboPlast®	100	205	White	10	6.265 029
LaboPlast®	150	216	White	10	6.265 031
LaboPlast®	250	232	White	10	6.269 508
LaboPlast®	500	280	White	10	6.269 510
LaboPlast®	1000	332	White	10	6.284 541
SteriPlast®	25	141	White	10	6.265 037
SteriPlast®	50	160	White	10	6.265 039
SteriPlast®	150	216	White	10	6.265 043
SteriPlast®	250	232	White	10	6.269 512
SteriPlast®	500	280	White	10	6.269 514
SteriPlast®	1000	332	White	10	6.284 542

### Disposable scoops LaboPlast® Bio/SteriPlast®Bio, Green PE

Bürkle GmbH



White. They are ideal for sampling of powder, granules and pastes. The LaboPlast® Bio/SteriPlast®Bio products are entirely made of renewable resources. Not only with regard to quality but also with regard to its characteristics for high-quality sampling, it is perfectly comparable with conventional polyethylene.

- Individually packed
- SteriPlast® Bio additionally gamma-sterilized
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Nominal capacity	Overall length	Colour	PK	Cat. No.
	ml	mm			
LaboPlast® Bio	25	141	White	10	6.265 055
LaboPlast® Bio	50	160	White	10	6.265 056
LaboPlast® Bio	100	205	White	10	6.265 057
LaboPlast® Bio	150	216	White	10	6.265 058
SteriPlast® Bio	25	141	White	10	6.265 049
SteriPlast® Bio	50	160	White	10	6.265 050
SteriPlast® Bio	100	205	White	10	6.265 051
SteriPlast® Bio	150	216	White	10	6.265 052



### Disposable scoops for foodstuffs SteriPlast®, PS

Bürkle GmbH



Blue. The food scoop is ideal for powders, granulates and pastes. The shade of blue that is used does not occur in a natural form in foodstuffs. Because of this, the scoops or parts of them can be quickly found and easily identified in a visual check if they are ever mixed into production. The detectable scoops have a special additive in the material that makes them visible to metal detectors or X rays. They can therefore be rejected with standard systems for checking for foreign objects, even though they are made of plastic.

- Individually packed, gamma-sterilized
- Production, assembly and packaging according to clean room class 7 (10000)
- According to EU food and FDA guideline

Type	Nominal capacity	Overall length	Colour	PK	Cat. No.
	ml	mm			
SteriPlast®	25	141	Blue	10	6.284 552
SteriPlast®	50	160	Blue	10	6.284 553
SteriPlast®	100	205	Blue	10	6.284 554
SteriPlast®	150	216	Blue	10	6.284 555
SteriPlast®	250	232	Blue	10	6.284 556
SteriPlast®	500	280	Blue	10	6.284 557
SteriPlast®	1000	332	Blue	10	6.284 558
SteriPlast®	2000	381	Blue	10	4.680 857
SteriPlast®	25	141	Blue	10	6.284 563
SteriPlast®	50	160	Blue	10	6.284 564
SteriPlast®	100	205	Blue	10	6.284 565
SteriPlast®	150	216	Blue	10	6.284 566
SteriPlast®	250	232	Blue	10	6.284 567
SteriPlast®	500	280	Blue	10	6.284 568
SteriPlast®	1000	332	Blue	10	6.284 569
SteriPlast®	2000	381	Blue	10	4.680 858



### Sampling Dippers DispoDipper LaboPlast®/SteriPlast®, PP, blue transparent



Bürkle GmbH

Scaled sampling tube manufactured in a clean room specially designed for disposable use. Due to the blue colour, it is also perfect for use in the food, animal feed and pharmaceutical industries. After sampling, the container can be closed and is leakproof. DispoDipper is completely manufactured in one piece and can be used for sampling and subsequent transport of the sample in one device. In this way, cross-contamination or sample impurities are almost impossible. For sampling, first remove the cover at the predetermined breaking point. Then take the sample with the sample container and close it securely. After sampling, the handle at the predetermined breaking point can be detached from the sample container. This allows for easy and space-saving transport of the sample.

- Individually packaged and optionally sterilised by gamma rays (SteriPlast®)
- Production and packaging according to clean room class 7
- Complies with EU food requirements and FDA regulations

Description	Capacity	Ø	Height	Overall length	PK	Cat. No.
	ml	mm	mm	mm		
LaboPlast®	50	40	98	417	20	6.290 524
SteriPlast®	50	40	98	417	20	6.290 525
LaboPlast®	100	53	98	415	20	4.662 230
SteriPlast®	100	53	98	415	20	4.662 231
LaboPlast®	250	72	116	429	20	4.662 232
SteriPlast®	250	72	116	429	20	4.662 233



### Sampling Dippers DispoLadle, HDPE



Bürkle GmbH

The DispoLadle is a sampling scoop specially designed for disposable use. The scaled scoop with embossing can be used for measuring. It shows contents in increments of 10 ml, up to 200 ml. An ergonomic handle and a spout on both sides for right or lefthand operation make handling simple and easy.

- Cleanroom manufactured
- Individually packaged
- Optionally sterilised by gamma rays

Description	Capacity	Length	PK	Cat. No.
	ml	mm		
Standard	200	500	20	6.284 537
Sterile	200	500	20	6.284 538
Standard	200	1000	20	6.284 539
Sterile	200	1000	20	6.284 540



### Chemistry scoop, PP, with rod handle

For aggressive liquids, complete with strong handle made of polypropylene.

Bürkle GmbH

Capacity	Shaft diam.	Stem	PK	Cat. No.
ml	mm	mm		
250	20	1000	1	9.303 840
600	20	1000	1	9.303 842
1000	20	1000	1	9.303 844



### Liquid-Sampler, single hand operation, stainless steel V4A (1.4404)

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

Bürkle GmbH

Description	Volume	Length	Ø	PK	Cat. No.
	ml	mm	mm		
open with thumb	50	460	32	1	6.072 639
open with thumb	100	540	32	1	6.092 997
place onto bottle	50	455	32	1	6.253 634
place onto bottle	100	535	32	1	7.622 377



6.092 997

7.622 377



### Vampire Sampler

The self-priming peristaltic pump is also suitable for dirty or particle-containing substances with a viscosity of max. 500 mPas. Ideal for sampling from barrels, tanks, wells, water separators, waste water and sewage treatment plants. The samples are fed directly into the sample container via the closed hose system.

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- Battery-powered hose pump
- Easy cleaning and exchangeable hoses prevent impurities
- Suction depth up to 5 metres

**Scope of supply:** Drive unit, pump head, pump hose (30 cm, Marprene), suction hose (5 m, PE), hose connector (PP), sample bottle (250 ml, LDPE), bottle basket, two rechargeable batteries, battery charger

Type	PK	Cat. No.
Vampire sampler, complete	1	9.303 851

Suitable accessories can be found in our online shop.



### Disposable liquid samplers, HDPE

Bürkle GmbH



In numerous situations, rapid and contamination-free samples have to be taken. DispoSamplers are perfect for this application. They are cleanroom-manufactured, individually-packed and always ready-to-use. Avoid expensive decontamination or cleaning of soiled samplers. Gamma-sterilised versions are also available. **ViscoDispo:** For high viscosity-media up to 100000 mPas. **LiquiDispo:** For liquids and slightly viscous media. **DispoPipette:** For taking all-layer and target-point samples from low viscosity-media. **DispoTube:** For taking all-layer and target-point samples from liquids.

Type	Description	Volume ml	Length mm	PK	Cat. No.
ViscoDispo	non-sterile	100	500	20	9.303 732
ViscoDispo	sterile	100	500	20	9.303 733
ViscoDispo	non-sterile	200	1000	20	9.303 734
ViscoDispo	sterile	200	1000	20	9.303 735
LiquiDispo	non-sterile	100	500	20	9.303 720
LiquiDispo	sterile	100	500	20	9.303 721
LiquiDispo	non-sterile	200	1000	20	9.303 722
LiquiDispo	sterile	200	1000	20	9.303 723
DispoPipette	non-sterile	100	500	20	6.282 451
DispoPipette	sterile	100	500	20	7.971 434
DispoPipette	non-sterile	200	1000	20	6.281 402
DispoPipette	sterile	200	1000	20	6.281 401
DispoTube	non-sterile	100	500	20	6.282 447
DispoTube	sterile	100	500	20	6.282 448
DispoTube	non-sterile	200	1000	20	6.282 449
DispoTube	sterile	200	1000	20	6.282 450

### Sample bags SteriBag, PE, sterile

Bürkle GmbH



Transparent. For samples from chemistry, pharmaceutical, food technology applications etc.

- Sterile, RNase, DNase and pyrogen-free
- Leakproof

Type A: Without write-on panel Type B: With write-on panel.

Nominal capacity ml	Width mm	Length mm	Description	PK	Cat. No.
60	76	127	A	500	9.404 114
60	76	127	B	500	9.404 119
150	76	178	A	500	9.404 115
150	76	178	B	500	9.404 120
450	114	229	A	500	9.404 116
450	114	229	B	500	9.404 121
650	140	229	A	500	9.404 117
650	140	229	B	500	9.404 122
800	114	305	A	500	9.404 118
800	114	305	B	500	9.404 123
1650	178	305	A	250	6.223 094
1650	178	305	B	250	6.223 093

### Sample bags SteriBag Premium, tamper-proof

Bürkle GmbH



The SteriBag Premium sample bags uniquely combine a high degree of security, sterility, tamper evident closure and traceability, they are used to securely transport and for the storage of samples. After sampling, the sample can be filled directly into the sterile sample bag. The tamper-evident closure seals the bag liquid-tight and secure. When trying to open the closure again, the word "STOP" appears clearly visible. Both the sample bag and the tear-off field are labeled with a unique tracking number, this allows complete documentation and traceability. SteriBag Premium is suitable for many demanding applications in the food, pharmaceutical, medical area as well as in cleanroom or biotechnology sectors.

- Sterilised by gamma rays (10<sup>-6</sup>)
- With integrated tamper-proof closure for manipulation evidence
- Unique identification via tracking number
- Food-safe

Nominal capacity	Width	Length	PK	Cat. No.
ml	mm	mm		
300	145	200	100	9.404 126



### Sample bags Whirl-Pak®, PE, sterile

Nasco Sampling LLC

Whirl-Pak® bags are sterile polyethylene laboratory sample bags used to transport samples for biological testing and other applications. Available with or without write-on label. With integrated wire closing system. Temperature range: -210 to 82 °C.

Nominal capacity	Dimensions (D x W)	Thickness	Description	PK	Cat. No.
ml	mm	mm			
58	75 x 125	0,057	with write-on label	500	7.058 005
118	75 x 185	0,057	with write-on label	500	7.077 212
207	95 x 180	0,064	with write-on label	500	6.286 123
532	115 x 230	0,064	with write-on label	500	7.058 120
710	150 x 230	0,076	with write-on label	500	6.242 083
2721	254 x 380	0,102	with write-on label	250	6.266 304
3637	254 x 508	0,102	with write-on label	250	6.266 305
5441	380 x 508	0,102	with write-on label	100	6.257 989
58	75 x 125	0,057	with write-on label	500	6.091 055
118	75 x 185	0,057	without write-on label	500	9.404 234
207	95 x 180	0,076	without write-on label	500	7.981 345
532	115 x 230	0,064	without write-on label	500	9.404 235
710	150 x 230	0,076	without write-on label	500	6.228 639
798	127 x 305	0,076	without write-on label	500	6.280 246
1065	125 x 380	0,076	without write-on label	500	9.404 236
1242	150 x 380	0,076	without write-on label	500	6.266 302
2041	190 x 380	0,076	without write-on label	500	6.305 117



### Sample bags Whirl-Pak®, PE with sponge, dry, Cellulose

Nasco Sampling LLC

For environmental surface sampling of work areas and equipment. The natural cellulose dry sponge is free of bactericides and has been tested to be non-inhibitory.

Nominal capacity	Dimensions (D x W)	Thickness	Description	PK	Cat. No.
ml	mm	mm			
532	115 x 230	0.064	Speci-Sponge® with glove, sterile	100	7.970 688
532	115 x 230	0.064	Speci-Sponge®	100	7.970 873
710	150 x 230	0.076	Sponge with detachable handle	50	6.281 269



### Sample bags/Homogenising bags Whirl-Pak®, PE, sterile

Nasco Sampling LLC

- Sterile, solid bags for the homogenisation of liquids and solids
- With and without labelling strips

Nominal capacity	Dimensions (D x W)	Thickness	Description	PK	Cat. No.
ml	mm	mm			
384	130 x 190	0,076	without label	500	6.052 018
710	150 x 230	0,102	without label	500	9.404 233
710	150 x 230	0,102	with label	500	7.059 854
1627	190 x 300	0,102	with label	500	7.059 855



### Blender bags, BagSystem®

These gamma-ray sterilized bags have a high mechanical stability and ensure safety for the samples. The filters inserted in the bags filter the liquid during sample preparation (washing process) and retain sample particles. **BagLight®**: Bag without filter, for all microbiological laboratory applications. **BagLight® Multilayer**: Like BagLight® with strong multilayer film. **BagLight® Multilayer U**: Like BagLight® with strong multilayer film and U-bottom. **BagPage® and BagPage®+**: Homogenizer bag with a micro-perforated filter that extends over the entire width of the sample bag (full-size filter). **BagPage® R**: Like BagPage® with non-woven filter. **BagPage® F**: Like BagPage® for flow cytometry. **BagPage® XR**: Like BagPage® extra resistant. **BagFilter® P**: Bag with non-woven filter (side filter). Removal of the filtered solvent with BagPipet®. With pre-cut for pipetting. **BagFilter® Roll**: Bag with non-woven filter (side filter). With waterproof quick-closure by resealable sticker. **BagFilter® Pipett**: Bag with non-woven filter (side filter). With resealable pipette access for micropipettes. **BagFilter® Pipet & Roll**: Bag with non-woven filter (side filter). Combines the resealable Pipette access with waterproof quick-closure.

Type	Description	Pore size µm	Width Height		PK	Cat. No.
			mm	mm		
BagLight® PolySilk 100	plain bag, sleeve 25		110	185	500	9.570 075
BagLight® PolySilk 400	plain bag, sleeve 25		175	300	500	4.662 244
BagLight® PolySilk 400	plain bag, sleeve 50		175	300	500	4.662 937
BagLight® PolySilk 3500	plain bag, sleeve 25		380	510	500	9.570 077
BagLight® Multilayer® 400	plain bag, sleeve 25		190	300	500	6.231 427
BagPage® 100	full-size filter bag, sleeve 25	280	180	95	500	9.570 080
BagPage® + 400	full-size filter bag, sleeve 25	280	190	300	500	9.570 081
BagPage® + 3500	full-size filter bag, sleeve 10	280	380	510	100	9.570 082
BagPage® R 400	full-size filter bag, sleeve 25	250	190	300	500	6.230 760
BagPage® F 400	full-size filter bag, sleeve 25	63	190	300	500	6.257 162
BagPage® XR 400	full-size filter bag, sleeve 25	280	190	300	400	6.239 230
BagFilter® P 400	side filter bag, sleeve 25	250	190	300	500	9.570 078
BagFilter® P 3500	side filter bag, sleeve 10	250	380	510	100	9.570 079
BagFilter® S 400	side filter bag, sleeve 25	250		300	500	9.570 052
BagFilter® Roll	side filter bag, sleeve 25	250	190	300	500	6.292 087
BagFilter® Pipet	side filter bag, sleeve 25	250	190	300	500	6.292 088
BagFilter® Pipet & Roll	side filter bag, sleeve 25	250	190	300	500	4.666 496



9.570 075



9.570 078



4.666 496



### Self-Seal Sterilization Pouches

Self-seal sterilization pouches are pre-folded and assure accurate and fast closing without the requirement of a heat sealing device. They are especially suited for use in small general practices, dental surgeries and by users who want to avoid costs of additional sealing equipment. The self-seal sterilization pouches are constructed from transparent PET/PP multi-layer copolymer film, medical grade paper and adhesive strip which provides excellent resistance to over-exposure of steam and clean opening. Water based, non-toxic process indicators for steam and ethyleneoxide sterilization complying with ISO 11140-1 are applied on the paper surface and help to differentiate between processed and unprocessed packages.

- Reinforced film to avoid tearing during opening
- Clean and accurate indicator color change
- Tear, fibre-free opening and aseptic presentation
- Triple band seal for higher package integrity

Dimensions (WxH)	Colour	PK	Cat. No.
75 x 200 mm	Transparent	200	6.272 280
90 x 230 mm	Transparent	200	6.272 281
90 x 270 mm	Transparent	200	6.272 282
130 x 290 mm	Transparent	200	6.272 283
190 x 340 mm	Transparent	200	6.272 284
200 x 330 mm	Transparent	200	6.291 149
300 x 400 mm	Transparent	200	6.321 108
300 x 430 mm	Transparent	200	6.272 285
400 x 600 mm	Transparent	200	6.321 109

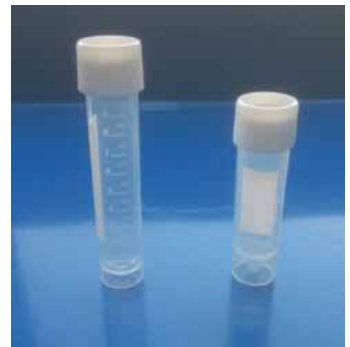
### LLG-Transport tubes, PP, with screw cap

For convenient storage and dispatch of samples.

LLG Labware

- Conical bottom
- Free standing
- Printed graduation
- 1 1/4 turn thread design for super fast screwing

Capacity	Outer diam.	Height with cap	PK	Cat. No.
ml	mm	mm		
5	16	60	100	6.265 667
10	16	80	100	6.265 668



### Sample bottles, PP, for water sampling, sterile

These gamma sterilised bottles are specially designed for taking, handling, transporting and storing water samples. Manufactured either as clear or amber colour from polypropylene. Clear bottles are manufactured from glass-like transparent special grade polypropylene. Amber bottles are manufactured from an amber coloured clear polypropylene which is highly translucent but still preventing the UV light penetrating inside the bottle. Square body form offers easy handling, and optimum space saving solutions during storage period. Wide bottle neck (GL 50) provides easy filling and pouring. Cap is made from PE with self sealing lock with integral security ring. Unique cap inner design ensures hermetical closure and guarantees an excellent leak and contamination proof bottle. Embossed graduation ( precision of  $\pm 2\%$  ) on side wall enables volume verifications. Each bottle is labelled specifying e.g. sample and source descriptions, code and lot numbers and expiry date. Bottles with liquid sodium thiosulfate (20 mg/l - acc to ISO/FIS 19458:2006 ) are ideal to analyse water meant for human consumption, swimming pools, and any other water where chlorine may modify the composition of the sample. Empty bottles, without sodium thiosulfate ; ideal to sample water for physical and chemical analysis, as well as for other sample requirements that demands sterile bottles.

ISOLAB Laborgeräte



Description	Capacity	PK	Cat. No.
	ml		
clear, sterile, without sodium thiosulfate	125	180	4.678 042
clear, sterile, without sodium thiosulfate	250	108	9.001 075
clear, sterile, without sodium thiosulfate	500	84	9.001 076
clear, sterile, without sodium thiosulfate	1000	30	9.001 077
amber, sterile, without sodium thiosulfate	125	180	4.678 043
amber, sterile, without sodium thiosulfate	250	108	9.001 078
amber, sterile, without sodium thiosulfate	500	84	9.001 079
amber, sterile, without sodium thiosulfate	1000	30	9.001 080
clear, sterile, with sodium thiosulfate	125	180	4.666 052
clear, sterile, with sodium thiosulfate	250	108	9.001 081
clear, sterile, with sodium thiosulfate	500	84	9.001 082
clear, sterile, with sodium thiosulfate	1000	30	9.001 083
amber, sterile, with sodium thiosulfate	125	180	4.678 044
amber, sterile, with sodium thiosulfate	250	108	9.001 084
amber, sterile, with sodium thiosulfate	500	84	9.001 085
amber, sterile, with sodium thiosulfate	1000	30	9.001 086

### LLG-Mortars, porcelain

According to DIN 12906. Suitable for easy grinding, comminution or crushing of ground material during sample preparation. With practical spout. Please order pestle separately.

LLG Labware

Capacity	Outer diam.	Height	DIN	Description	PK	Cat. No.
ml	mm	mm				
25	51	32		rough inside	1	9.164 410
70	63	41	12906	rough inside	1	6.227 149
75	76	45		rough inside	1	9.164 411
110	83	50		rough inside	1	6.232 577
160	90	56	12906	rough inside	1	6.243 865
220	105	64		rough inside	1	9.164 412
400	125	71	12906	rough inside	1	9.164 413
2250	224	127		rough inside	1	6.252 383
110	83	50		glazed inside	1	6.227 289
220	105	64		glazed inside	1	6.234 591





### LLG-Pestle, porcelain

According to DIN 12906. With rough or glazed friction surface for easy crushing of ground material during sample preparation.

LLG Labware

Head diam. mm	Length mm	DIN	Description	PK	Cat. No.
14	54		rough	1	6.227 150
24	115	12906	rough	1	9.164 420
30	135	12906	rough	1	6.232 574
36	150	12906	rough	1	9.164 421
42	175	12906	rough	1	9.164 422
74	250	12906	rough	1	6.252 384
42	175	12906	glazed	1	6.227 292
36	150	12906	glazed	1	6.234 592



### Mortars only, porcelain

To DIN 12906. With spout, pestle not supplied. Glazed externally. Inside rough.

Haldenwanger GmbH

Capacity ml	Int. diam. mm	Height mm	Acc. to	PK	Cat. No.
70	65	40	DIN 12906	1	9.164 206
170	90	55	DIN 12906	1	9.164 209
400	130	65	DIN 12906	1	9.164 212
700	150	70	DIN 12906	1	9.164 215
1000	180	80	DIN 12906	1	9.164 218



### Pestles only, porcelain

To DIN 12906. With glazed handle. Unglazed grinding surface.

Haldenwanger GmbH

Head diam. mm	Length mm	Acc. to	Nominal diam. mm	PK	Cat. No.
24	115	DIN 12906	50 / 63	1	9.164 306
30	135	DIN 12906	90	1	9.164 309
36	150	DIN 12906	125	1	9.164 312
42	175	DIN 12906	150	1	9.164 315
55	210	DIN 12906	180	1	9.164 318

Nominal size = mortar internal diameter



### Mortars and pestles, Agate

Agate. Polished. Standard quality. Other sizes available on request.

C.Giese GmbH & Co.

Capacity ml	Outer diam. mm	Int. diam. mm	PK	Cat. No.
2	25	20	1	6.801 997
10	50	40	1	9.164 050
13	60	52	1	6.078 293
15	65	52	1	6.323 710
25	75	60	1	9.164 075
50	100	85	1	9.164 100
100	125	100	1	9.164 125
200	150	130	1	9.164 150

### Flat bottom flasks with conical ground joint, DURAN®

According to DIN EN ISO 4797 and in addition to DIN standard (\*), with inscription label.

Lenz-Laborglas GmbH

Nominal capacity	Socket	Flask external diam.	PK	Cat. No.
ml	NS	mm		
50	19/26	51	1	7.019 166
50	29/32	51	1	9.011 982
100	19/26	64	1	7.019 167
100	29/32	64	1	9.011 983
250	19/26	85	1	7.019 168
250	29/32	85	1	9.011 984
500	19/26*	105	1	6.227 431
500	29/32	105	1	9.011 985
1000	29/32	131	1	9.011 986
2000	29/32	166	1	9.011 987

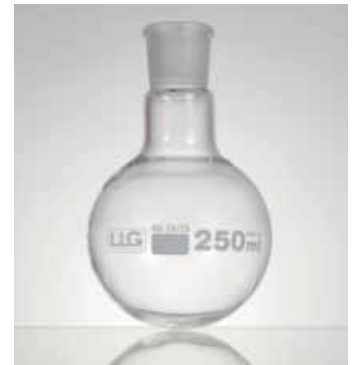


### LLG-Round bottom flasks with standard ground joint, borosilicate glass 3.3

With standard ground joint and white inscription. Acc. to DIN EN ISO 4797.

LLG Labware

Nominal capacity	Height	Ground size	Standard	PK	Cat. No.
ml	mm				
50	90	NS14/23	DIN EN ISO 4797	2	4.686 126
50	90	NS29/32	DIN EN ISO 4797	2	4.686 129
100	105	NS14/23	DIN EN ISO 4797	2	4.686 130
100	105	NS24/29	DIN EN ISO 4797	2	4.686 132
100	105	NS29/32	DIN EN ISO 4797	2	4.686 133
250	140	NS29/32	DIN EN ISO 4797	2	4.686 134
500	163	NS29/32	DIN EN ISO 4797	2	4.686 138
1000	200	NS29/32	DIN EN ISO 4797	1	4.686 141
2000	240	NS29/32	DIN EN ISO 4797	1	4.686 143



### Round bottom flasks with conical ground joint, DURAN®

According to DIN EN ISO 4797 and in addition to DIN standard, with inscription label.

Lenz-Laborglas GmbH

Nominal capacity	Ø	Ground size	Standard	PK	Cat. No.
ml	mm				
5	30	NS14/23		1	6.201 199
25	41	NS19/26		1	7.021 797
50	51	NS19/26	DIN EN ISO 4797	1	6.302 116
50	51	NS24/29	DIN EN ISO 4797	1	7.019 181
100	64	NS19/26	DIN EN ISO 4797	1	6.200 675
100	64	NS24/29	DIN EN ISO 4797	1	7.019 182
250	85	NS14/23		1	9.011 815
250	85	NS19/26	DIN EN ISO 4797	1	6.800 202
250	85	NS24/29	DIN EN ISO 4797	1	6.800 214
250	85	NS45/40		1	9.011 867
500	105	NS24/29	DIN EN ISO 4797	1	6.800 215
500	105	NS29/32	DIN EN ISO 4797	1	9.011 850
500	105	NS45/40	DIN EN ISO 4797	1	9.011 868
1000	131	NS24/29	DIN EN ISO 4797	1	6.800 235
1000	131	NS29/32	DIN EN ISO 4797	1	9.011 855
1000	131	NS45/40	DIN EN ISO 4797	1	9.011 869
2000	166	NS29/32	DIN EN ISO 4797	1	9.011 860
2000	166	NS45/40	DIN EN ISO 4797	1	9.011 870
3000	185	NS29/32		1	6.077 738
3000	185	NS45/40		1	6.901 617
4000	207	NS29/32	DIN EN ISO 4797	1	9.011 865
4000	207	NS45/40	DIN EN ISO 4797	1	9.011 875
5000	223	NS29/32		1	9.011 864
5000	223	NS45/40	DIN EN ISO 4797	1	9.011 877
6000	236	NS29/32		1	9.011 866
6000	236	NS45/40	DIN EN ISO 4797	1	9.011 880
10000	279	NS45/40	DIN EN ISO 4797	1	9.011 885
5	30	NS14/23		10	4.667 710
10	35	NS14/23	DIN EN ISO 4797	10	4.667 711
25	41	NS14/23	DIN EN ISO 4797	10	4.667 712
50	51	NS14/23	DIN EN ISO 4797	10	4.667 713
100	64	NS14/23	DIN EN ISO 4797	10	4.667 714
50	51	NS29/32	DIN EN ISO 4797	10	4.667 715
100	64	NS29/32	DIN EN ISO 4797	10	4.667 716
250	85	NS29/32	DIN EN ISO 4797	10	4.667 718
500	105	NS29/32	DIN EN ISO 4797	10	4.667 719
1000	131	NS29/32	DIN EN ISO 4797	10	4.667 720





### LLG-Two-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, angled side neck

Side neck at 20° angle to the middle neck. With white inscription. Acc. to DIN 12394.

LLG Labware

Nominal capacity	Ø	Height	Ground size centre neck	Ground size side necks	PK	Cat. No.
ml	mm	mm				
50	51	92	NS14/23	NS14/23	1	4.686 152
100	64	107	NS14/23	NS14/23	1	4.686 153
100	64	107	NS29/32	NS14/23	1	4.686 155
250	85	142	NS14/23	NS14/23	1	4.686 154
250	85	142	NS29/32	NS14/23	1	4.686 156
500	105	165	NS29/32	NS14/23	1	4.686 157
1000	131	203	NS29/32	NS14/23	1	4.686 158



### Round bottom flasks with two necks, side neck angled, DURAN®

DIN 12394 and in addition to DIN standard (\*). With one central and one 20° side angled ground joint necks as outlined below.

Lenz-Laborglas GmbH

Nominal capacity	Centre neck	Side necks	Flask diam.	PK	Cat. No.
ml	NS	NS	mm		
25	14/23	14/23*	41	1	9.011 901
50	14/23	14/23*	51	1	9.011 902
100	14/23	14/23*	64	1	9.011 903
100	29/32	14/23*	64	1	9.011 904
100	29/32	19/26*	64	1	6.233 114
100	29/32	29/32*	64	1	6.204 819
250	14/23	14/23*	85	1	9.011 905
250	24/29	19/26*	85	1	6.206 139
250	29/32	14/23	85	1	9.011 906
250	29/32	19/26	85	1	6.225 989
250	29/32	29/32*	85	1	9.011 907
500	29/32	14/23	105	1	9.011 908
500	29/32	19/26	105	1	6.233 091
500	29/32	29/32*	105	1	9.011 910
1000	29/32	14/23	131	1	9.011 915
1000	29/32	19/26	131	1	6.231 953
1000	29/32	29/32*	131	1	9.011 920
2000	29/32	14/23	166	1	6.072 288
2000	29/32	29/32*	166	1	6.056 856
4000	29/32	29/32*	207	1	6.201 298



### LLG-Three-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, parallel side necks

Side necks are parallel to the centre neck. With white inscription. Acc. to DIN 12392.

LLG Labware

Nominal capacity	Height	Ground size centre neck	Ground size side necks	Standard	PK	Cat. No.
ml	mm					
250	140	NS29/32	NS14/23	DIN 12392	1	4.686 166
250	140	NS29/32	NS29/32		1	4.686 169
500	163	NS29/32	NS14/23	DIN 12392	1	4.686 167
500	163	NS29/32	NS29/32		1	4.686 170
1000	200	NS29/32	NS14/23	DIN 12392	1	4.686 168
1000	200	NS29/32	NS29/32		1	4.686 171
2000	240	NS29/32	NS29/32		1	4.686 172



### LLG-Three-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, angled side necks

Side necks at 20° angle to the middle neck. With white inscription. Acc. to DIN 12394.

LLG Labware

Nominal capacity	Height	Ground size centre neck	Ground size side necks	Standard	PK	Cat. No.
ml	mm					
250	140	NS29/32	NS14/23	DIN 12394	1	4.686 159
250	140	NS29/32	NS29/32		1	4.686 160
500	163	NS29/32	NS14/23	DIN 12394	1	4.686 161
500	163	NS29/32	NS29/32		1	4.686 162
1000	200	NS29/32	NS14/23	DIN 12394	1	4.686 163
1000	200	NS29/32	NS29/32		1	4.686 164
2000	240	NS29/32	NS29/32		1	4.686 165



### Three-neck round-bottom flasks, side necks angled, DURAN®

DIN 12394 and in addition to DIN standard (\*). Central neck with 2 x 20° angled side necks.

Lenz-Laborglas GmbH

Nominal capacity ml	Centre neck NS	Side necks NS	Flask diam. mm	PK	Cat. No.
25	14/23	14/23	41	1	6.232 885
50	14/23	14/23	51	1	6.077 726
100	14/23	14/23	64	1	7.312 548
100	29/32	14/23*	64	1	9.011 953
100	29/32	19/26*	64	1	6.204 852
100	29/32	29/32*	64	1	7.019 272
250	24/29	19/26*	85	1	6.204 322
250	29/32	14/23	85	1	9.011 955
250	29/32	19/26	85	1	9.011 957
250	29/32	29/32	85	1	9.011 956
500	29/32	14/23*	105	1	9.011 958
500	29/32	29/32	105	1	9.011 959
1000	29/23	14/23	131	1	9.011 961
1000	29/32	29/32*	131	1	9.011 962



### Flask rings, pressed cork

Height 30 mm.

BR Solution GmbH

For flasks ml	Ext. Ø mm	Int. Ø mm	Height mm	PK	Cat. No.
4000	210	150	30	1	9.143 015
10-100	80	30	30	10	4.667 531
250-500	110	60	30	10	4.667 532
1000-2000	140	90	30	10	4.667 533
3000	170	120	30	10	4.667 534

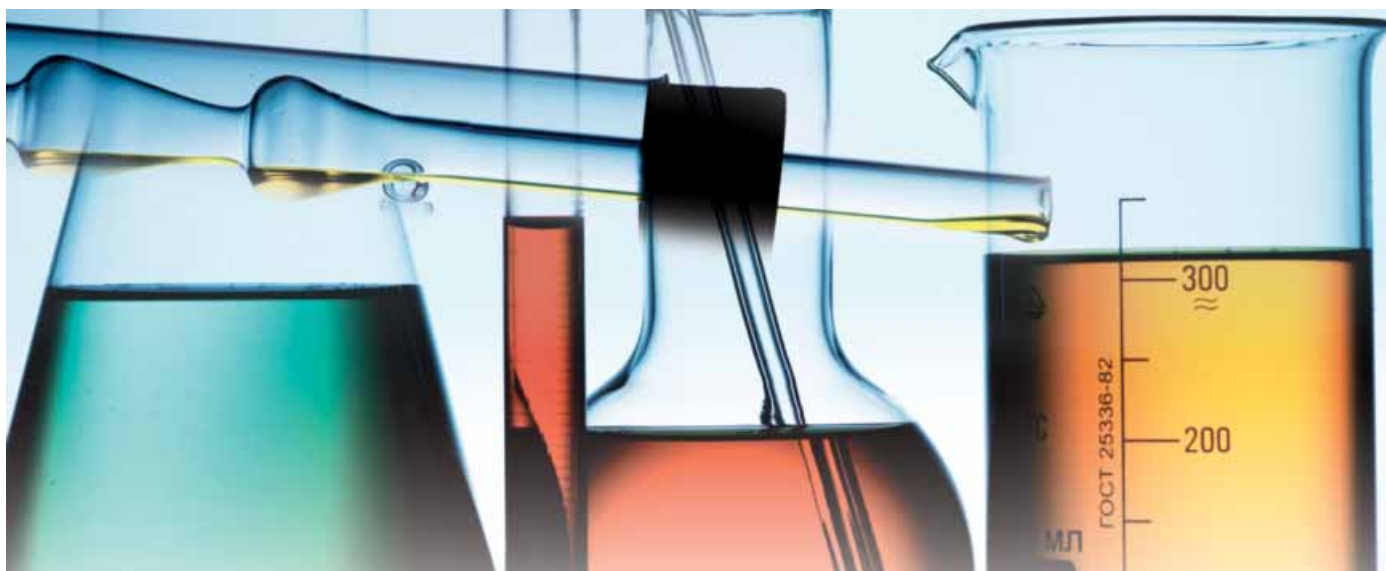


### LLG-Erlenmeyer flasks with standard ground joint, borosilicate glass 3.3

Ideal for mixing liquids. With standard ground joint and white graduation. Acc. to DIN EN ISO 4797.

LLG Labware

Nominal capacity ml	Bottom Ø mm	Height mm	Ground size	Standard	PK	Cat. No.
50	51	85	NS14/23	DIN EN ISO 4797	2	4.686 106
50	51	85	NS19/26	DIN EN ISO 4797	2	4.686 107
50	51	85	NS29/32	DIN EN ISO 4797	2	4.686 108
100	64	100	NS14/23	DIN EN ISO 4797	2	4.686 109
100	64	100	NS19/26	DIN EN ISO 4797	2	4.686 110
100	64	100	NS29/32	DIN EN ISO 4797	2	4.686 111
250	85	140	NS19/26	DIN EN ISO 4797	2	4.686 112
250	85	140	NS24/29	DIN EN ISO 4797	2	4.686 113
250	85	140	NS29/32	DIN EN ISO 4797	2	4.686 114
300	87	156	NS29/32	DIN EN ISO 4797	2	4.686 115
500	105	175	NS29/32	DIN EN ISO 4797	2	4.686 116
1000	131	220	NS29/32	DIN EN ISO 4797	1	4.686 117
2000	166	270	NS29/32	DIN EN ISO 4797	1	4.686 118





### Erlenmeyer flasks with ground joint, DURAN®

Acc. to DIN EN ISO 4797 and in addition to DIN standard (\*), with scale (approx. volume/ml), with inscription label.

Lenz-Laborglas GmbH

Nominal capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
10	14/23	42	1	6.200 447
25	14/23	42	1	9.012 001
25	19/26	42	1	7.019 150
50	14/23	51	1	9.012 002
50	19/26	51	1	6.900 839
50	24/29	51	1	7.019 155
50	29/32	51	1	9.012 012
100	14/23	64	1	9.012 003
100	19/26	64	1	6.200 676
100	24/29	64	1	7.019 156
100	29/32	64	1	9.012 013
200	24/29*	79	1	7.019 164
200	29/32*	79	1	9.012 017
250	19/26	85	1	6.900 834
250	24/29	85	1	6.200 677
250	29/32	85	1	9.012 014
250	45/40*	85	1	9.012 006
300	24/29*	87	1	7.070 022
300	29/32*	87	1	9.012 018
300	45/40*	87	1	9.012 007
500	24/29	105	1	7.400 404
500	29/32	105	1	9.012 015
500	45/40*	105	1	9.012 008
1000	29/32	131	1	9.012 016
1000	45/40*	131	1	9.012 009
2000	29/32	166	1	9.012 019
2000	45/40*	166	1	9.012 010
3000	45/40	185	1	6.900 828
5000	45/40	223	1	7.607 913



### LLG-Separating funnel, conical, borosilicate glass 3.3

Separating funnel with PTFE stopcock.

LLG Labware

- DIN ISO 4800
- With standard ground joint and stopper

Nominal capacity ml	Bore mm	Ground size	PK	Cat. No.
50	2,5	NS19/26	1	4.686 257
100	2,5	NS19/26	1	4.686 258
250	4,0	NS29/32	1	4.686 259
500	4,0	NS29/32	1	4.686 260
1000	6,0	NS29/32	1	4.686 261
2000	6,0	NS29/32	1	4.686 262



### LLG-Separating funnel acc. to Squibb, borosilicate glass 3.3

Separating funnel acc. to Squibb with PTFE stopcock.

LLG Labware

- DIN ISO 4800
- With standard ground joint and stopper
- White graduation

Nominal capacity ml	Bore mm	Ground size	PK	Cat. No.
50	2.5	NS19/26	1	4.686 263
100	2.5	NS19/26	1	4.686 264
250	4	NS29/32	1	4.686 265
500	4	NS29/32	1	4.686 266
1000	6	NS29/32	1	4.686 267
2000	6	NS29/32	1	4.686 268

### Gas washing bottles acc. to Drechsel, complete, DURAN® tubing

Bottle, DURAN®. Head made from DURAN® tubing, with screw connections. Head available with or without porosity 1 filter disc, insert height adjustable, central screw cap: GL 45, lateral screw caps: GL 14.

Lenz-Laborglas GmbH



6.073 489

7.635 908

Description	Capacity	Porosity	PK	Cat. No.
	ml			
Gas Washbottle without filter disc	500	-	1	6.073 489
Gas Washbottle with filter disc	500	1	1	7.635 908
Gas Washbottle Head without filter disc	-	-	1	7.622 816
Gas Washbottle Head with filter disc	-	1	1	6.206 086

### LLG-Hexagonal hollow stoppers, borosilicate glass 3.3, pointed

For closing glassware with standard ground joints. The drip tip ensures that adhering liquid flows back into the glassware. Hexagonal shape prevents the stopper from rolling away. Acc. to DIN 12252.

LLG Labware



Ground size	PK	Cat. No.
NS10/19	5	4.686 100
NS12/21	5	4.686 101
NS14/23	5	4.686 102
NS19/26	5	4.686 103
NS24/29	5	4.686 104
NS29/32	5	4.686 105

### Hollow stoppers, hexagonal plate, pointed bottom, borosilicate glass 3.3

Acc. to DIN 12252, form C.

Lenz-Laborglas GmbH



Ground size	PK	Cat. No.
NS7/16	10	4.678 579
NS10/19	10	4.678 573
NS12/21	10	4.678 574
NS14/23	10	4.678 575
NS19/26	10	4.678 576
NS24/29	10	4.678 578
NS29/32	10	4.678 577
NS34/35	10	4.678 580
NS45/40	10	4.678 572

### Conical ground joint stoppers, PP



Hollow, with sealing rings and square grip. Autoclavable (121 °C).

BRAND GMBH + CO.KG



Ground size	PK	Cat. No.
NS7/16	10	4.678 532
NS10/19	10	4.678 533
NS12/21	10	4.678 534
NS14/23	10	4.678 535
NS19/26	10	4.678 536
NS24/29	10	4.678 537
NS29/32	10	4.678 538

### BUDDE - joint grease

For all glass joints. Transparent, vacuum tight, water washable and water soluble. Maintains practically the consistency between -30 °C and 200 °C, non-solidifying. Compatible with most elastomers. Tube of 80 g.

Buddeberg GmbH



Weight	PK	Cat. No.
g		
80	1	9.116 950



### LLG-Fork clamps for spherical joints

Made of stainless steel 304. For spherical ground joint connections. With set screw.

LLG Labware

Size	PK	Cat. No.
S13	1	9.011 797
S19	1	9.011 798
S29	1	9.011 799
S35	1	9.011 800



### Joint grease, K.W.S

Without silicone. Designed as vacuum and high vacuum grease. No silicone derivatives, polymerisation or gummy. Excellent adhesion and viscosity. Acid/alkaline resistant. Locked joints can be loosened by brief, gentle heating. Can be used to make temporary glassware repairs. Biodegradable. Non-toxic in normal use.

J.P. Pöllath

Working temperature range: -40 ... 200 °C, to 10<sup>-5</sup> mbar  
Vapour pressure: 0.00001 mbar

Capacity	PK	Cat. No.
ml		
30	1	9.116 924



### LLG-Microcentrifuge tubes, PP

LLG Labware



LLG Microtubes cover standard volumes for a variety of sample tests. They are available in 0.5 ml, 1.5 ml and 2.0 ml volumes. These standard Microtubes withstand high centrifugal forces, are temperature and chemically-resistant and guaranteed leak-free. An innovative and modern new generation of Microtubes with new features. Perfect sealing qualities, excellent chemical stability and optimal construction materials guarantee even better resistance to centrifugal and chemical forces. Easy to open and to close thanks to the improved lid geometry. For visual volume control the 1.5 ml tubes are equipped with graduations at 0.5 ml, 1.0 ml and 1.5 ml. The 2.0 ml tubes have graduations at 0.5 ml, 1.0 ml, 1.5 ml and 2.0 ml. The 0.5 ml tubes have no graduations. Certified DNase-, RNase- and pyrogen-free. Clear, in bags. Suitable for microbiology. Guaranteed metal-free.

#### Specifications

##### Autoclavability

Temperature: 121 °C  
Pressure: 1.05 bar or 15 psi  
Time: 20 min or less

##### Centrifugation

Fixed angle rotor: 25000 x g  
Swing out rotor: 70000 x g

Form	Volume	Max.	PK	Cat. No.
	ml	rcf		
conical	0.5	20000	1000	9.409 023
conical	1.5	25000	1000	9.409 024
round	2.0	25000	1000	9.409 025



### LLG-Microcentrifuge tubes, PP, with Safe-Lock lid

LLG Labware

LLG-Microcentrifuge tubes are versatile and suitable for general laboratory applications such as incubation, centrifugation, and storage of samples. With tight-fitting Safe-Lock lid, which prevents unintentional opening of the lid during centrifugation.

- Frosted labelling area on the lid
- Lid membrane can be easily pierced
- Easy opening and closing with one hand
- Graduation lines for visual volume control
- RNase- and DNase-free

Volume	Form	Max. rcf	Sterile	Temp. range	PK	Cat. No.
ml		x g		°C		
1.5	Conical	15000	No	-86 ... 121	1000	6.490 852
2.0	Round	15000	No	-86 ... 121	1000	6.490 853

### Reaction tubes, PP, with attached lid



BRAND GMBH + CO.KG

- Graduated
- With attached snap-on lid
- Autoclavable at 121 °C (2 bar), acc. DIN EN 285
- BIO-CERT® PCR QUALITY: Free of human DNA, RNase, DNase, Pyrogens and PCR-Inhibitors

Nominal capacity		Max. rcf	PK	Cat. No.
ml	x g			
1	10000		1000	7.020 324
2	20000		500	9.409 303



9.409 301

### Reaction tubes with attached lid, PP, BIO-CERT® PCR QUALITY

For PCR-setups, storage of PCR samples and other applications with high cleanliness requirements.

BRAND GMBH + CO.KG

- Tight sealing snap lid
- Can be opened and closed with one hand
- Graduated
- Free of human DNA, RNase, DNase, pyrogens and PCR inhibitors
- Autoclavable at 121 °C (2 bar) according to DIN EN 285

Capacity	Colour	Max. rcf	Material	PK	Cat. No.
ml		x g			
1,5	transparent	20000	PP	500	6.321 263
1,5	yellow	20000	PP	500	4.684 524
1,5	blue	20000	PP	500	4.684 525
1,5	green	20000	PP	500	4.684 526
1,5	orange	20000	PP	500	4.684 527
1,5	amber	20000	PP	500	4.684 528



### Microcentrifuge tubes, PP, with lid locking



BRAND GMBH + CO.KG

The microcentrifuge tubes are available with an additional lid locking to achieve especially effective sealing and prevent accidental opening.

- Graduated
- With attached lid
- Autoclavable at 121 °C (2 bar), acc. to DIN EN 285
- BIO-CERT® PCR QUALITY: Free of human DNA, RNase, DNase, pyrogens and PCR inhibitors

Nominal capacity		Max. rcf	PK	Cat. No.
ml	x g			
1	30000		500	6.266 733
2	30000		1000	6.257 318
2	20000		500	6.266 734



### Standard reaction tubes, 3810 X, PP



Eppendorf SE

- Flat, frosted cap and marking patch on the body of the tube provide generous space for labelling
- Simplified opening and closing due to improved neck/cap geometry
- Graduated from 0.1 to 1.5 ml on the tube body
- Autoclavable when open (at 121 °C for 20 mins.)
- Can be centrifuged up to 30000 xg in fixed angle rotors (up to 70000 x g in swing-out rotors)
- Compatible with Micropestle

Colour	Volume	PK	Cat. No.
	ml		
transparent*	1.5	1000	6.700 374
transparent	1.5	1000	9.409 317
blue	1.5	1000	9.409 337
yellow	1.5	1000	9.409 338
green	1.5	1000	9.409 339
red	1.5	1000	9.409 347

\* PCR clean





### Safe-lock reaction tubes, PP

Eppendorf SE



- A small clasp on the patented cap locking device clips onto the rim of the tube
- Autoclavable when open (121 °C, 20 min.)
- Can be opened and closed easily with one hand
- With frosted labelling area.
- The clasp on the cap prevents the lid springing open accidentally (e.g. when heating)
- Excellent mechanical stability for centrifugation
- Graduated
- Safe-lock reaction vessels are also available in Eppendorf Biopur® Quality
- 0.5 ml and 1.5 ml capacity Safe-lock reaction vessels can be centrifuged up to 30 000 x g

Colour	Capacity ml	PK	Cat. No.
Transparent	0.5	500	9.409 320
Yellow	0.5	500	9.409 354
Red	0.5	500	9.409 355
Blue	0.5	500	9.409 352
Green	0.5	500	9.409 353
Amber	0.5	500	9.409 356
Transparent	1.5	1000	9.409 331
Yellow	1.5	1000	9.409 332
Red	1.5	1000	9.409 333
Blue	1.5	1000	9.409 334
Green	1.5	1000	9.409 335
Amber	1.5	1000	9.409 336
Transparent	2.0	1000	9.409 341
Yellow	2.0	1000	9.409 342
Red	2.0	1000	9.409 343
Blue	2.0	1000	9.409 344
Green	2.0	1000	9.409 345
Amber	2.0	1000	9.409 346
Assorted colours	0.5	500	9.409 357
Assorted colours	1.5	1000	9.409 358
Assorted colours	2.0	1000	9.409 359



### Reaction tubes PCR clean Safe-Lock

Eppendorf SE



Capacity ml	Colour	PK	Cat. No.
0.5	transparent	500	7.400 114
1.5	transparent	1000	7.400 585
2.0	transparent	1000	6.092 988



### DNA LoBind Tubes, with snap-on lid

Eppendorf SE



- Less than 1% loss of DNA/RNA at low concentrations and critical conditions (high salt, short DNA-fragments)
- No surface coating, e.g. silicone
- Free of DNA, DNase, RNase and PCR inhibitors (PCR clean)
- Novel PP, manufactured under optimized conditions
- Highly transparent

Nominal capacity ml	Max. rcf x g	Package contents	PK	Cat. No.
0.5	30000	5 bags of 50 tubes	250	9.409 324
1.5	30000	5 bags of 50 tubes	250	9.409 326
2.0	25000	5 bags of 50 tubes	250	9.409 327
5,0	25000	4 bags of 50 tubes	200	9.409 290

### Protein LoBind Tubes, with snap-on lid



Eppendorf SE

- Minimum protein loss (less than 3%, BSA 1 µg/ml)
- No surface coating, e.g. silicone
- Free of DNA, DNase, RNase and PCR inhibitors (PCR clean)
- Novel PP manufactured under optimized conditions
- Highly transparent



Nominal capacity ml	Max. rcf x g	Package contents	PK	Cat. No.
0.5	18000	2 bags of 50 tubes	100	9.409 328
1.5	18000	2 bags of 50 tubes	100	9.409 329
2.0	18000	2 bags of 50 tubes	100	9.409 330
5,0	25000	2 bags of 50 tubes	100	9.409 289

### LLG-Centrifuge tubes, 5 ml, PP, with Safe-Lock lid

LLG-Centrifuge tubes are versatile and suitable for general laboratory applications such as incubation, centrifugation, and storage of samples. With tight-fitting Safe-Lock lid, which prevents unintentional opening of the lid during centrifugation.

LLG Labware

- Frosted labelling area on the lid
- Lid membrane can be easily pierced
- Easy opening and closing with one hand
- Graduation lines for visual volume control
- RNase- and DNase-free



Volume ml	Form	Max. rcf x g	Sterile	Temp. range °C	PK	Cat. No.
5.0	Conical	25000	No	-86 ... 121	200	6.322 888

### LLG-Centrifuge tubes, 5ml, PP



LLG Labware

The LLG-Centrifuge tubes, 5ml, represent the perfect solution for all laboratory applications requiring incubation, centrifugation and sample handling in an intermediate volume range. Available in amber for use with light sensitive samples.

- Max. 25000 x g, suitable for high speed centrifugation
- Graduations every 0.25 ml for easy volume estimation
- A flat, frosted cap and large writing pad for sample labeling and identification
- Autoclavable
- Fits all rotors and racks that hold 15 ml conical tubes, no adapters needed
- Certified free of RNase and DNase



Description	Package contents	PK	Cat. No.
Amber	1 bag of 250 pieces	250	6.281 115

### Eppendorf Tubes® 5.0 mL, PP

- Simple, practical and ergonomic single-hand operation
- Large labelling area
- Certified purity: Available in lot-tested and certified Eppendorf Quality, PCR clean, Sterile and Eppendorf Biopur® purity levels
- Maximum safety and stability for centrifugation up to 25000 x g
- Compatible with accessories for conical 15 ml tubes - many existing adapters and racks can be used

*Eppendorf SE*


### Eppendorf Tubes® 5.0 mL, PP, with hinged lid

- Hinged lid for minimized sample evaporation during storage and incubation in a wide range of temperatures from -86 °C to 80 °C
- From 80 °C on, please use tube clips (cat. no. 9.409 294)

Description	Package contents	PK	Cat. No.
Eppendorf Tubes® 5.0 ml, Eppendorf Quality™	2 bags of 100	200	9.409 277
Eppendorf Tubes® 5.0 ml, PCR clean	2 bags of 100	200	9.409 278
Eppendorf Tubes® 5.0 ml, Sterile	10 bags of 20	200	9.409 279
Eppendorf Tubes® 5.0 ml, Biopur®	bag of 50, single packed	50	9.409 288

### Eppendorf Tubes® 5.0 mL, starter pack, with snap caps



- Simple, practical and ergonomic single-hand operation
- Large labelling area
- Hinged lid for minimized sample evaporation during storage and incubation in a wide range of temperatures from -86 °C to 80 °C
- Maximum safety and stability for centrifugation up to 25000 x g
- Free of human DNA, free of DNase and RNase, free of PCR inhibiting agents
- For PCR preparations or any reactions where DNase or RNase could interfere with the reaction or analysis
- From 80 °C on, please use tube clips (cat. no. 9.409 294)

**Scope of supply:** 400 Eppendorf Tubes® 5.0 mL, PCR clean (Certified purity grade), 8 universal adapters for rotors with bores for 15 ml conical tubes, 2 tube racks 5.0 mL (12 spaces, white)

Description	PK	Cat. No.
Eppendorf Tubes® 5.0 mL, starter pack, with snap caps	1	9.409 291



**LLG-Centrifuge tubes economy, PP**



LLG Labware

- With flat PE caps
- With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml)
- Easy-to-read black volume graduations
- With a large frosted writing area
- Engraved graduation at the conical bottom of each tube
- Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes
- Autoclavable at 121 °C and freezable to -80 °C
- Leak-proof
- Free of pyrogens
- DNase/RNase-free
- Aseptically or sterile

For research and development only.

Volume	Description	Form	Height	Ø	PK	Cat. No.
ml			mm	mm		
15	Sterile, in bag of 25 pieces	conical	119.6	16	500	4.668 482
50	Sterile, in bag of 25 pieces	conical	113.9	30	500	4.668 483
50	Sterile, in bag of 25 pieces	with rim	116.5	30	500	4.668 486
15	Aseptically, bulk pack	conical	119.6	16	500	6.270 403
50	Aseptically, bulk pack	conical	113.9	30	500	6.270 404
50	Aseptically, bulk pack	with rim	116.5	30	500	6.270 405



**LLG-Test and centrifuge tubes, PS or PP**

Ideal for all laboratory applications in the intermediate volume range up to 12 ml, such as incubation, centrifugation or sample preparation.

LLG Labware

- Tube made of transparent PS or opaque PP
- Round bottom
- Graduated
- Large writing area

**LLG-Test and centrifuge tubes with rim, PS or PP**

Please order matching Dual-Position caps separately.

Volume	Ø	Height	Material	Max. rcf	Max. temp. °C	PK	Cat. No.
ml	mm	mm					
4	12	75	PS	1400	80	500	6.265 657
4	12	75	PP	3000	120	500	6.265 658
12	17	100	PS	3000	80	250	6.265 659
12	17	100	PP	5500	120	250	6.265 660





### LLG-Test and centrifuge tubes with rim, PS or PP, with dual-position cap

- Cap made of HDPE
- Sterilized with ethylene oxide

The dual-position cap can seal test and centrifuge tubes in two ways:

- Closed, but air-permeable for aerobic growth conditions
- Hermetically sealed for anaerobic growth conditions. Also ideal for safe centrifugation, storage or transport of samples

Volume ml	Ø mm	Height mm	Material	Material Lid	Max. rcf	Max. temp. °C	PK	Cat. No.
4	12	77	PS	HDPE	1400	80	500	6.265 661
4	12	77	PP	HDPE	3000	120	500	6.265 662
12	17	103	PS	HDPE	3000	80	500	6.265 663
12	17	103	PP	HDPE	5500	120	500	6.265 664



### LLG-Dual-Position caps for test and centrifuge tubes, HDPE

The LLG-Dual-Position cap can seal test and centrifuge tubes in two ways:

LLG Labware

- Closed, but air-permeable for aerobic growth conditions
- Hermetically sealed for anaerobic growth conditions. Also ideal for safe centrifugation, storage or transport of samples

For tubes diam. mm	Material	PK	Cat. No.
12	HDPE	1000	6.265 665
17	HDPE	1000	6.265 666



### Nalgene™ Oak-Ridge centrifuge tubes, PP-copolymer

Thermo Elect.LED



PP-copolymer with PP screw cap. PPCO is more resistant to chemicals than PC. Autoclavable. When wet, the translucent test-tube enables observation of the contents. Can be used in refrigerated and unrefrigerated centrifuges at up to 50.000 x g rcf. Accessory sealing cap assemblies are available for all sizes.

Nominal capacity ml	Max. rcf x g	Dimension (ØxH)	Bottom shape	PK	Cat. No.
10	50000	16.1 x 80.5 mm	Round	1	9.315 711
28	50000	25.8 x 94.0 mm	Round	1	9.315 712
30	50000	25.8 x 93.5 mm	Round	1	9.315 713
42	100605	28.8 x 105.9 mm	Round	1	9.315 714



### Centrifuge tubes, PP, with rim, without stoppers

BRAND GMBH + CO.KG



- Cylindrical
- Autoclavable (121 °C)

Nominal capacity ml	Max. rcf x g	Dimension (ØxH)	Bottom shape	PK	Cat. No.
10	4500	16 x 100 mm	Round	1000	4.689 076
26	4500	24 x 90 mm	Round	50	4.689 066
20	4500	20 x 100 mm	Round	50	4.689 009
48	4500	30 x 100 mm	Round	25	4.688 065
75	4500	35 x 100 mm	Round	20	4.689 054
110	4500	40 x 120 mm	Round	20	6.326 924
125	4500	45 x 120 mm	Round	10	4.689 128

### Stoppers, PE for centrifuge tubes, PP



BRAND GMBH + CO.KG



For tubes ml	PK	Cat. No.
10	100	7.019 392
26	100	7.019 394
30	100	7.019 393
48	100	7.019 395
75	100	7.019 396
110	100	7.019 397
160	100	7.019 398

### Centrifuge tubes, plastic, round bottom, PC, graduated



BRAND GMBH + CO.KG



Transparent. PC. Rimless, with moulded graduations. Slightly yellowish in colour. Round bottom. Note: the strength of Polycarbonate is reduced when it is autoclaved or cleaned using alkaline detergents.

Nominal capacity ml	Max. rcf x g	Dimension (ØxH)	Bottom shape	PK	Cat. No.
50	5000	35 x 98 mm	Round	10	4.689 073
100	5000	41 x 115 mm	Round	10	4.689 074
100	5000	45 x 98 mm	Round	10	4.689 223

### Nalgene™ Oak-Ridge centrifuge tubes, PC



Thermo Elect.LED



Transparent. PC with PP screw cap. Can be used in suitable refrigerated or ambient centrifuges, with screw cap at up to 10.000 x g rcf and without screw cap at up to 50.000 x g rcf. Autoclavable. Accessory sealing cap assemblies are available for 10 ml, 30 ml and 50 ml sizes.

Nominal capacity ml	Max. rcf x g	Dimension (ØxH)	Bottom shape	PK	Cat. No.
10	10000	16.1 x 81.5 mm	Round	1	9.315 691
28	10000	25.8 x 94.0 mm	Round	1	9.315 692
30	10000	25.8 x 94.0 mm	Round	1	9.315 693
43	10000	28.8 x 106.4 mm	Round	1	9.315 694
81	10000	38.2 x 105.2 mm	Round	1	9.315 695

### Centrifuge tubes, AR-GLAS®, ungraduated, rimless

- Wall thickness: 1 mm
- Maximum loading: 3500 x g rcf.

BRAND GMBH + CO.KG



Nominal capacity ml	Outer diam. mm	Height mm	Base	PK	Cat. No.
11	16.5	98	cone-pointed	100	9.315 423
13	16.5	98	round	100	9.315 421

### Centrifuge tubes, AR-GLAS® or borosilicate glass 3.3, ungraduated, with beaded rim

- Wall thickness approx.: 1 mm
- Maximum loading: 3500 x g rcf.
- Conical bottom

BRAND GMBH + CO.KG



Nominal capacity ml	Outer diam. mm	Height mm	Material	PK	Cat. No.
15	17	113	AR-GLAS®	100	9.315 412
15	17	113	Boro 3.3	100	9.315 413



### ASTM centrifuge tube, pear-shaped with cylindrical base, borosilicate glass 3.3

Pear-shaped with cylindrical base. Former standard ASTM D 96. Capacity 100 ml. Graduations and labelling in high-contrast blue enamel. Maximum loading 700 x g rcf. Internal diam. neck approx. 17 mm.

H. & K. Starke GmbH

Graduated, ml:	In subdivisions, ml:
0 to 1.5	0.10
1.5 to 3	0.50
3 to 5	0.50
5 to 10	1.00
10 to 25	5.00
25 to 100	25.0

Capacity	PK	Cat. No.
ml		
100	1	9.315 815

### LLG-Filter papers for qualitative analyses

Made from 100% cellulose. Filtration speed according to DIN 53137. Capacity of separation according to DIN 53135.

LLG Labware



### LLG-Filter papers, qualitative, circles, very fast

Pore size 15 to 20 µm.

Ash content: 0.060

Ø	Weight	Thickness	Filtration speed	Particle retention	PK	Cat. No.
mm	g/m <sup>2</sup>	mm	s	µm		
90.0	80	0.21	10	15 ... 20	100	9.045 830
110.0	80	0.21	10	15 ... 20	100	9.045 831
125.0	80	0.21	10	15 ... 20	100	9.045 832
150.0	80	0.21	10	15 ... 20	100	9.045 833
185.0	80	0.21	10	15 ... 20	100	9.045 834



### LLG-Filter papers, qualitative, circles, medium fast

Pore size 8 to 12 µm or 5 to 13 µm.

Ash content: 0.060

Ø	Weight	Thickness	Filtration speed	Particle retention	PK	Cat. No.
mm	g/m <sup>2</sup>	mm	s	µm		
42.5	87	0.18	50	8...12	100	9.045 820
90.0	87	0.18	50	8...12	100	9.045 821
110.0	87	0.18	50	8...12	100	9.045 822
125.0	87	0.18	50	8...12	100	7.970 266
150.0	87	0.18	50	8...12	100	7.970 269
185.0	87	0.18	50	8...12	100	6.242 668
240.0	87	0.18	50	8...12	100	6.242 631
42.5	73	0.16	35	5...13	100	9.045 800
47.0	73	0.16	35	5...13	100	9.045 801
55.0	73	0.16	35	5...13	100	9.045 802
70.0	73	0.16	35	5...13	100	9.045 803
90.0	73	0.16	35	5...13	100	9.045 804
110.0	73	0.16	35	5...13	100	9.045 805
125.0	73	0.16	35	5...13	100	9.045 806
150.0	73	0.16	35	5...13	100	9.045 807
185.0	73	0.16	35	5...13	100	9.045 808
240.0	73	0.16	35	5...13	100	9.045 809



### LLG-Filter papers, qualitative, folded filters, medium fast

Pore size 8 to 12 µm.

- For fast filtration with fine particles

Ash content: 0.060

Ø	Weight	Thickness	Filtration speed	Particle retention	PK	Cat. No.
mm	g/m <sup>2</sup>	mm	s	µm		
70.0	87	0.18	50	8...12	100	7.659 027
90.0	87	0.18	50	8...12	100	6.286 319
110.0	87	0.18	50	8...12	100	6.286 320
125.0	87	0.18	50	8...12	100	9.045 825
150.0	87	0.18	50	8...12	100	9.045 826
185.0	87	0.18	50	8...12	100	9.045 827
210.0	87	0.18	50	8...12	100	6.286 322
240.0	87	0.18	50	8...12	100	6.242 632
270.0	87	0.18	50	8...12	100	6.265 534

### LLG-Filter papers, qualitative, circles, slow

**Pore size 2 to 4 µm.**

Ash content: 0.060

Ø	Weight	Thickness	Filtration speed	Particle retention	PK	Cat. No.
mm	g/m <sup>2</sup>	mm	s	µm		
70.0	80	0.16	200	2...4	100	7.970 267
90.0	80	0.16	200	2...4	100	7.970 268
110.0	80	0.16	200	2...4	100	6.242 672
125.0	80	0.16	200	2...4	100	7.970 134
150.0	80	0.16	200	2...4	100	7.970 139
185.0	80	0.16	200	2...4	100	6.242 671
240.0	80	0.16	200	2...4	100	7.971 615



### LLG-Filter paper, qualitative, sheets, medium fast

**Pore size 5 to 13 µm.**

- for analytical works in laboratories

Dimensions (WxD)	Weight	Thickness	Filtration speed	Particle retention	PK	Cat. No.
	g/m <sup>2</sup>	mm	s	µm		
460 x 570 mm	73	0.16	35	5...13	100	9.045 810



### LLG-Filter papers for quantitative analysis

Made from 100% cellulose. Filtration speed according to DIN 53137.  
Capacity of separation according to DIN 53135.

LLG Labware

### LLG-Quantitative filter paper, circles, fast

**Pore size 20 to 25 µm.**

- Most frequently used quantitative filter
- For PbS, Ag<sub>2</sub>S, FeS, carbonates
- Ashless, equivalent white tape

Ø	Weight	Filtration speed	Ash content	PK	Cat. No.
mm	g/m <sup>2</sup>	s	%		
90.0	84	27	0.007	100	7.970 057
110.0	84	27	0.007	100	7.970 000
125.0	84	27	0.007	100	7.970 058
150.0	84	27	0.007	100	7.970 001
185.0	84	27	0.007	100	7.970 002
200.0	84	27	0.007	100	6.242 179



### LLG-Quantitative filter paper, circles, medium fast

**Pore size 5 to 8 µm.**

- For NH<sub>4</sub>MgPO<sub>4</sub>, CaC<sub>2</sub>O<sub>4</sub>, BaSO<sub>4</sub>
- Ashless, equivalent red tape

Ø	Weight	Filtration speed	Ash content	PK	Cat. No.
mm	g/m <sup>2</sup>	s	%		
55.0	84	55	0.007	100	6.256 437
70.0	84	55	0.007	100	7.970 571
90.0	84	55	0.007	100	7.970 032
110.0	84	55	0.007	100	6.242 748
125.0	84	55	0.007	100	7.970 045
150.0	84	55	0.007	100	6.252 765
185.0	84	55	0.007	100	6.242 747
240.0	84	55	0.007	100	7.970 591



### LLG-Quantitative filter paper, circles, very fast

**Pore size 12 to 15 µm.**

- For coarse, high volume precipitates
- For determinations according to the German Standard Methods for the examination of water, waste water and sludge
- For Fe(OH)<sub>3</sub>, Al(OH)<sub>3</sub>, NaSO<sub>4</sub>
- Ashless, equivalent black ribbon

Ø	Weight	Filtration speed	Ash content	PK	Cat. No.
mm	g/m <sup>2</sup>	s	%		
70.0	84	9	0.007	100	9.045 840
90.0	84	9	0.007	100	9.045 841
110.0	84	9	0.007	100	9.045 842
125.0	84	9	0.007	100	9.045 843
150.0	84	9	0.007	100	9.045 844
185.0	84	9	0.007	100	9.045 845





### LLG-Quantitative filter paper, circles, slow

#### Pore size 2 to 3 µm.

- For very fine precipitates and small particles
- For soil analysis
- For BaSO<sub>4</sub> (hot precipitate), PbSO<sub>4</sub>, Cu<sub>2</sub>O, ZnS, NiS
- Ashless, equivalent blue tape

Ø	Weight	Filtration speed	Ash content	PK	Cat. No.
mm	g/m <sup>2</sup>	s	%		
47.0	84	140	0.007	100	6.285 586
70.0	84	140	0.007	100	7.970 271
90.0	84	140	0.007	100	9.045 850
110.0	84	140	0.007	100	6.242 670
125.0	84	140	0.007	100	9.045 851
150.0	84	140	0.007	100	9.045 852
185.0	84	140	0.007	100	6.242 669



### LLG-Extraction thimbles, cellulose

Neutral and fat free. With excellent retention capacity. Ash content <0.1%.

LLG Labware

Ø	Length	Wall thickness	PK	Cat. No.
mm	mm	mm		
20	80	1	25	9.045 701
22	80	1	25	9.045 700
25	100	1	25	9.045 709
26	60	1	25	9.045 707
28	80	1	25	9.045 711
30	80	1	25	9.045 708
33	80	1	25	9.045 702
33	94	1	25	9.045 703
33	100	1	25	9.045 704
33	118	1	25	9.045 706
43	123	1	25	9.045 710



### LLG-Glass microfibre filters, filter circles

LLG Labware

Ø	Pore size	Filtration time	Weight	Thickness	PK	Cat. No.
mm	µm	secs.	g / m <sup>2</sup>	mm		
25	1.6	60	52	0.26	100	9.045 860
37	1.6	60	52	0.26	100	7.970 790
47	1.6	60	52	0.26	100	9.045 861
55	1.6	60	52	0.26	100	6.242 633
90	1.6	60	52	0.26	100	6.252 072
110	1.6	60	52	0.26	100	7.970 339
125	1.6	60	52	0.26	100	7.970 033
150	1.6	60	52	0.26	100	9.045 862
25	1.2	100	52	0.26	100	9.045 865
47	1.2	100	52	0.26	100	6.243 711
55	1.2	100	52	0.26	100	6.251 383
70	1.2	100	52	0.26	100	9.045 866
90	1.2	100	52	0.26	100	9.045 867
110	1.2	100	52	0.26	100	9.045 868
47	0.7	310	75	0.45	100	7.970 106
55	0.7	310	75	0.45	100	7.970 742
70	0.7	310	75	0.45	100	6.253 553

Filtration velocity according to Herzberg



### Glass microfibre filters, grade GF/F

This ultra-fine filter has a 98% retention efficiency for particles as small as 0.7 µm in liquids. Particle retention to 0.7 µm.

Cytiva Europe GmbH

Ø	PK	Cat. No.
mm		
24	100	9.056 666
25	100	9.056 676
42.5	100	9.056 716
47	100	9.056 726
55	100	9.056 780
70	100	9.056 781
90	25	9.056 782
110	25	9.056 783
125	25	9.056 784
150	25	9.056 785
257	25	9.056 787
570 x 460	25	9.056 805

### Glass microfibre filters, grade GF/C

Extremely efficient filter made to retain fine particles and micro organisms.  
Particle retention to 1.2 µm.

Cytiva Europe GmbH

Ø	PK	Cat. No.
mm		
21	100	9.056 643
24	100	9.056 663
25	100	9.056 673
37	100	9.056 693
42.5	100	9.056 713
47	100	9.056 723
50	100	9.056 759
55	100	9.056 760
70	100	9.056 761
90	100	9.056 762
100	100	6.240 479
110	100	9.056 763
125	100	9.056 764
150	100	9.056 765
203 x 254	100	6.287 413
254 x 102	50	9.056 816
570 x 460	25	9.056 803



**Warning**

H phrases: H315|H351

### Glass microfibre filters, grade GF/A

The general purpose high efficiency glass microfibre filter. Particle retention to 1.6 µm.  
Supplied in pack quantities as indicated.

Cytiva Europe GmbH

Ø	PK	Cat. No.
mm		
21	100	9.056 641
24	100	9.056 661
25	100	9.056 671
37	100	9.056 691
42.5	100	9.056 711
47	100	9.056 721
50	100	9.056 725
55	100	9.056 740
60	100	9.056 739
70	100	9.056 741
81	100	6.256 482
90	100	9.056 742
110	100	9.056 743
125	100	9.056 744
150	100	9.056 745
254 x 203	100	9.056 811
570 x 460	25	9.056 801



### Membrane filters type 113, cellulose nitrate

Sartorius Lab Instruments



White. Very low content of extractable materials. Weight constant after 60 minutes of drying at 105 °C. Suitable for residue analysis, microscopic viewing in incident or transmitted light, chemotaxis, x-ray fluorescence, spectrometry and gravimetric analysis. Autoclavable at 121 °C. Other pore sizes and formats are available on request.

Ø	Pore size	PK	Cat. No.
mm	µm		
13	0.80	100	9.053 381
25	3.00	100	9.053 344
37	8.00	100	7.060 510
47	0.45	100	9.053 428
47	0.80	100	9.053 388
50	0.45	100	9.053 429
50	0.80	100	9.053 389
50	1.20	100	9.053 369
50	8.00	100	9.053 309



**Danger**

H phrases: H228

### LLG-Syringe filters *SPHEROS*

Cost-effective syringe filters for filtration of a broad variety of solvents, as well as aqueous, or inorganic solutions. These syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology, and food and beverage testing laboratories.

LLG Labware

- Robust polypropylene housing
- Multifunctional syringe filters with female Luer-Lock inlet and male Luer-Slip outlet
- Suitable for all syringes with Luer connection

### LLG-Syringe filters *SPHEROS*, cellulose acetate

- Hydrophilic membrane for filtration of aqueous liquids
- Low protein binding capacity
- Especially suitable for biological macromolecules, water soluble oligomers, and polymers

LLG Labware

Sterile filters in individual hard blister packaging and dispenser box. For research and development only.

Membrane Ø mm	Pore size µm	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
13	0.22	No	Luer-Lock female	Luer-Slip male	100	6.272 802
13	0.45	No	Luer-Lock female	Luer-Slip male	100	6.272 803
25	0.22	No	Luer-Lock female	Luer-Slip male	50	6.272 804
25	0.22	No	Luer-Lock female	Luer-Slip male	500	4.668 145
25	0.45	No	Luer-Lock female	Luer-Slip male	50	6.272 805
25	0.45	No	Luer-Lock female	Luer-Slip male	500	4.668 146
13	0.22	Yes	Luer-Lock female	Luer-Slip male	100	6.272 806
13	0.45	Yes	Luer-Lock female	Luer-Slip male	100	6.272 807
25	0.22	Yes	Luer-Lock female	Luer-Slip male	45	6.272 808
25	0.45	Yes	Luer-Lock female	Luer-Slip male	45	6.272 809

### LLG-Syringe filters *SPHEROS*, PES

- Hydrophilic membrane for aqueous and polar organic solutions with low protein binding capacity
- Especially suitable for sterile filtration of solutions and media in cell culture, as well as for ion chromatography and organic acids

Sterile filters individually packed in a hard blister package and dispenser box. For research and development only.

Membrane Ø mm	Pore size µm	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
25	0.22	No	Luer-Lock female	Luer-Slip male	50	6.272 640
25	0.45	No	Luer-Lock female	Luer-Slip male	50	6.272 641
25	0.22	Yes	Luer-Lock female	Luer-Slip male	45	6.272 642
25	0.45	Yes	Luer-Lock female	Luer-Slip male	45	6.272 643

### LLG-Syringe filters *SPHEROS*, Nylon

- Hydrophilic membrane for filtration of aqueous, organic, and medium polar solutions
- Very good chemical resistance to esters, alkaline solutions, and alcohols

Membrane Ø mm	Pore size µm	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
13	0.22	No	Luer-Lock female	Luer-Slip male	100	6.272 810
13	0.45	No	Luer-Lock female	Luer-Slip male	100	6.272 811
25	0.22	No	Luer-Lock female	Luer-Slip male	50	6.272 812
25	0.22	No	Luer-Lock female	Luer-Slip male	500	4.668 147
25	0.45	No	Luer-Lock female	Luer-Slip male	50	6.272 813
25	0.45	No	Luer-Lock female	Luer-Slip male	500	4.668 148

### LLG-Syringe filters *SPHEROS*, PTFE

- Hydrophobic membrane for filtration of non-polar liquids and gases
- Very good chemical resistance to all kinds of solvents and alkaline solutions

Membrane Ø mm	Pore size µm	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
13	0.22	No	Luer-Lock female	Luer-Slip male	100	6.272 816
13	0.45	No	Luer-Lock female	Luer-Slip male	100	6.272 817
25	0.22	No	Luer-Lock female	Luer-Slip male	50	6.272 818
25	0.22	No	Luer-Lock female	Luer-Slip male	500	4.668 149
25	0.45	No	Luer-Lock female	Luer-Slip male	50	6.272 819
25	0.45	No	Luer-Lock female	Luer-Slip male	500	4.668 150





### LLG-Syringe filters SPHEROS, PVDF

- Hydrophilic membrane for aqueous polar and light non-polar solutions
- Very low protein binding
- Suitable for high flow rates
- Ideal for use with biological macromolecules, water-soluble oligomers and polymers



Sterile filters in individual hard blister packaging and dispenser box. For research and development only.

Membrane Ø	Pore size	Sterile	Connction inlet	Connction outlet	PK	Cat. No.
mm	µm					
13	0.22	No	Luer-Lock female	Luer-Slip male	100	4.685 651
13	0.45	No	Luer-Lock female	Luer-Slip male	100	4.685 652
25	0.22	No	Luer-Lock female	Luer-Slip male	50	4.685 653
25	0.45	No	Luer-Lock female	Luer-Slip male	50	4.685 660
13	0.22	Yes	Luer-Lock female	Luer-Slip male	100	4.685 654
13	0.45	Yes	Luer-Lock female	Luer-Slip male	100	4.685 655
25	0.22	Yes	Luer-Lock female	Luer-Slip male	45	4.685 656
25	0.45	Yes	Luer-Lock female	Luer-Slip male	45	4.685 657

### LLG-Syringe filters

LLG offers a line of syringe filters especially designed to provide efficient filtration of a broad variety of fluids, solvents, aqueous or inorganic solutions. Our syringe filters cover most applications in HPLC, pharmaceutical, environmental, biotechnology, as well as food and beverage testing laboratories. LLG Labware

- Housing injected in polypropylene and MABS
- Superior pressure stability of the housings
- Suitable for all syringes with Luer connection

### LLG-Syringe filters PES, Polyethersulfone

Hydrophilic membrane for aqueous and slightly organic solutions with low protein binding capacity. The almost blank-free membrane is ideal for ion chromatography and organic acids. With Luer-Lock input and Luer-Slip output. Sterile products in individual hard blister packaging. For research and development only. LLG Labware



Membrane Ø	Pore size	Sterile	Connction inlet	Connction outlet	PK	Cat. No.
mm	µm					
13	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 524
13	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 526
13	0.20	Yes	Luer-Lock female	Luer-Slip male	50	6.285 695
13	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 696
25	0.80	Yes	Luer-Lock female	Luer-Slip male	50	6.285 706

### LLG-Syringe filters CA, Cellulose acetate

Hydrophilic membrane for filtration of aqueous solutions. This membrane features excellent shape stability in aqueous solutions and is characterised by a very low binding capacity for proteins (21 µg per 25 mm filter). Particularly suitable for biological macromolecules, water-soluble oligomers and polymers. Sterile products in individual hard blister packaging. For research and development only. LLG Labware

Membrane Ø	Pore size	Sterile	Connction inlet	Connction outlet	PK	Cat. No.
mm	µm					
13	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 500
13	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 502
13	0.80	No	Luer-Lock female	Luer-Slip male	500	9.055 504
25	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 501
25	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 503
25	0.80	No	Luer-Lock female	Luer-Slip male	500	7.970 389
13	0.20	Yes	Luer-Lock female	Luer-Slip male	50	9.055 510
13	0.45	Yes	Luer-Lock female	Luer-Slip male	50	9.055 512
13	0.80	Yes	Luer-Lock female	Luer-Slip male	50	6.285 694
25	0.20	Yes	Luer-Lock female	Luer-Slip male	50	9.055 511
25	0.45	Yes	Luer-Lock female	Luer-Slip male	50	9.055 513
25	0.80	Yes	Luer-Lock female	Luer-Slip male	50	6.285 699
25	0.20	Yes	Luer-Lock female	Luer-Slip male	50	6.285 703
25	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 704
25	0.80	Yes	Luer-Lock female	Luer-Slip male	50	6.285 705





### LLG-Syringe filters NC, Nitrocellulose

Hydrophilic membrane with low adsorption. For aqueous and aggressive organic solvent filtration. With Luer-Lock input and Luer-Slip output. Sterile products in individual hard blister packaging. For research and development only.

LLG Labware

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
25	0.20	Yes	Luer-Lock female	Luer-Slip male	50	6.285 709
25	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 710



### LLG-Syringe filters NY, Nylon/Polyamide

Rather hydrophilic membrane, optimal for filtration of aqueous and organic/aqueous medium polar liquids. Excellent chemical compatibility with esters, bases, and alcohols. With Luer-Lock input and Luer-Slip output. Sterile products in individual hard blister packaging. For research and development only.

LLG Labware

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
13	0.22	No	Luer-Lock female	Luer-Slip male	500	9.055 520
13	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 522
25	0.22	No	Luer-Lock female	Luer-Slip male	500	9.055 521
25	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 523
25	0.22	Yes	Luer-Lock female	Luer-Slip male	50	6.285 707
25	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 708



### LLG-Syringe filters RC, Regenerated cellulose

Hydrophilic membrane features very low adsorption. It is recommended for filtration of aqueous and organic/aqueous liquids. For filtration of polar and medium polar liquids. With Luer-Lock input and Luer-Slip output.

LLG Labware

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
13	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 530
13	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 532
25	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 531
25	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 533



### LLG-Syringe filters PTFE, Polytetrafluorethylene

Hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents, as well as acids, and bases. With Luer-Lock input and Luer-Slip output.

LLG Labware

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
13	0.20	No	Luer-Lock female	Luer-Slip male	500	7.970 402
13	0.45	No	Luer-Lock female	Luer-Slip male	500	7.970 385
25	0.20	No	Luer-Lock female	Luer-Slip male	500	9.055 535
25	0.45	No	Luer-Lock female	Luer-Slip male	500	6.255 331



### LLG-Syringe filters PVDF, Polyvinylidene fluoride

Hydrophilic membrane for aqueous polar and slightly non-polar solutions. Very low protein binding capacity. Suitable for high flow rates. Especially suitable for biological macromolecules, water-soluble oligomers, and polymers. With Luer-Lock input and Luer-Slip output. Sterile products in individual hard blister packaging. For research and development only.

LLG Labware

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
13	0.20	No	Luer-Lock female	Luer-Slip male	500	7.970 258
13	0.45	No	Luer-Lock female	Luer-Slip male	500	9.055 534
25	0.20	No	Luer-Lock female	Luer-Slip male	500	7.970 387
25	0.45	No	Luer-Lock female	Luer-Slip male	500	7.970 286
13	0.20	Yes	Luer-Lock female	Luer-Slip male	50	6.285 697
13	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 698
25	0.20	Yes	Luer-Lock female	Luer-Slip male	50	6.258 299
25	0.45	Yes	Luer-Lock female	Luer-Slip male	50	6.285 702

### LLG-Syringe filters GF, Glass fibre

Hydrophilic membrane suitable for pre-filtration. They can be used for solutions with high particulate loads or for highly viscous solutions (e.g. soil samples, fermentation broths) either alone or in combination with other filters. With Luer-Lock input and Luer-Slip output.

LLG Labware



Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
25	0.7	No	Luer-Lock female	Luer-Slip male	500	9.055 550
25	1.0	No	Luer-Lock female	Luer-Slip male	500	9.055 551
25	1.2	No	Luer-Lock female	Luer-Slip male	500	9.055 552
25	3.1	No	Luer-Lock female	Luer-Slip male	500	9.055 553

### LLG-Syringe filters PE, Polyethylene

Universal filter membrane for all analytical requirements. For aqueous and aggressive organic solvent filtration. Wide application in sample preparation, and ion chromatography. With Luer-Lock input and Luer-Slip output.



Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
25	0.2	No	Luer-Lock female	Luer-Slip male	500	9.055 541
25	0.5	No	Luer-Lock female	Luer-Slip male	500	9.055 543

### Syringe filter Minisart® NML, SFAC

Housing MBS. SFCA/CA (Surfactant-free Cellulose Acetate) membrane. For sterile, particle free, ultrapure filtration of small volumes of liquid up to approx. 100 ml. Colour coded and printed for easy membrane and pore size identification. With hydrophilic cellulose acetate membrane for minimum adsorption. Ready-to-use. With female luer-lock inlet, male luer slip outlet.

Sartorius Lab Instruments

Membrane Ø	Pore size	Sterile	Connexion outlet	PK	Cat. No.
mm	µm				
28	0.20	Yes	Luer-Lock male	50	6.250 269
28	0.20	Yes	Luer-Lock male	50	6.224 111
28	0.20	No	Luer-Lock male	500	9.049 107
28	0.20	Yes	Luer-Slip male	50	9.604 009
28	0.20	No	Luer-Slip male	500	7.017 212
28	0.2	Yes	Luer-Lock male	50	9.049 101
28	0.45	Yes	Luer-Lock male	50	6.900 911
28	0.45	Yes	Luer-Lock male	50	7.620 792
28	0.45	No	Luer-Lock male	500	9.049 108
28	0.45	Yes	Luer-Slip male	50	9.604 011
28	0.45	No	Luer-Slip male	500	7.017 213
28	0.65	Yes	Luer-Slip male	50	6.901 409
28	0.80	Yes	Luer-Lock male	50	9.049 103
28	0.80	No	Luer-Lock male	500	9.049 109
28	1.20	Yes	Luer-Lock male	50	9.049 104
28	1.20	No	Luer-Lock male	500	9.049 122
28	5.00	Yes	Luer-Lock male	50	9.049 105
28	5.00	No	Luer-Lock male	500	9.049 123



6.250 269



6.900 911



6.901 409



9.049 103



9.049 105



### Syringe filter Minisart® RC

Housing PP. Regenerated cellulose (RC). Ready-to-use units with a hydrophilic, solvent-resistant membrane made of regenerated cellulose, making sample preparation quick and easy. Suitable for aqueous/organic solutions.

Sartorius Lab Instruments

Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
mm	µm					
25	0.20	Yes	Luer-Lock female	Luer-Slip male	50	7.076 270
25	0.20	No	Luer-Lock female	Luer-Slip male	50	9.049 094
25	0.20	No	Luer-Lock female	Luer-Slip male	200	6.250 422
25	0.20	No	Luer-Lock female	Luer-Slip male	500	9.049 095
25	0.45	No	Luer-Lock female	Luer-Slip male	50	9.049 097
25	0.45	No	Luer-Lock female	Luer-Slip male	200	6.201 608
25	0.45	No	Luer-Lock female	Luer-Slip male	500	9.049 098
15	0.20	Yes	Luer-Lock female	Luer-Slip male	50	7.075 954
15	0.20	No	Luer-Lock female	Luer-Slip male	50	9.049 087
15	0.20	No	Luer-Lock female	Luer-Slip male	500	9.049 088
15	0.45	No	Luer-Lock female	Luer-Slip male	50	9.049 091
15	0.45	No	Luer-Lock female	Luer-Slip male	500	9.049 092
4	0.20	No	Luer-Lock female	Luer-Slip male	50	9.049 081
4	0.20	No	Luer-Lock female	Luer-Slip male	500	9.049 082
4	0.45	No	Luer-Lock female	Luer-Slip male	50	9.049 084
4	0.45	No	Luer-Lock female	Luer-Slip male	500	9.049 085



### Syringe filter CHROMAFIL®, Polytetrafluoroethylene (PTFE)

A hydrophobic membrane. Ideal for filtration of non-polar liquids and gases. It is very resistant to various solvents as well as acids and bases. By flushing with alcohol, followed by water, the original hydrophobic membrane can be made more hydrophilic.

Macherey-Nagel GmbH

Connexion outlet: Luer-Slip male

Type	Membrane Ø	Pore size	Sterile	Connexion inlet	PK	Cat. No.
	mm	µm				
CHROMAFIL®	3	0.20	No	Luer-Lock female	100	9.049 053
CHROMAFIL®	3	0.45	No	Luer-Lock female	100	9.049 054
CHROMAFIL® Xtra	13	0.20	No	Luer-Lock female	100	7.970 889
CHROMAFIL® Xtra	13	0.45	No	Luer-Lock female	100	6.268 887
CHROMAFIL®	25	0.20	No	Luer-Lock female	400	9.049 058
CHROMAFIL® Xtra	25	0.20	No	Luer-Lock female	400	4.003 410
CHROMAFIL® Xtra	25	0.45	No	Luer-Lock female	100	9.049 059
CHROMAFIL® Xtra	25	0.45	No	Luer-Lock female	400	9.049 060
CHROMAFIL® Xtra	25	1.00	No	Luer-Lock female	100	6.242 808



### Syringe filter CHROMAFIL®, Polyester (PET)

Hydrophilic membrane for polar as well as non-polar solvents. The HPLC filter, especially suited for mixtures of water and organic solvents; for TOC/DOC determination; not cytotoxic, does not inhibit the growth of microorganisms and higher cells. Polyester filter with integrated glass fibre prefilter (GF/PET): recommended for solutions with a high load of particulate matter or for highly viscous solutions.

Macherey-Nagel GmbH

Type	Membrane Ø	Pore size	Sterile	Connexion inlet	Connexion outlet	PK	Cat. No.
	mm	µm					
CHROMAFIL®	15	0.45	No	Luer-Lock female	Minispikes	800	4.003 398
CHROMAFIL® Xtra	25	0.20	No	Luer-Lock female	Luer-Slip male	400	4.003 418
CHROMAFIL®	25	0.45	No	Luer-Lock female	Luer-Slip male	100	9.049 069
CHROMAFIL®	25	0.45	No	Luer-Lock female	Luer-Slip male	400	9.049 070
CHROMAFIL® Xtra	25	0.45	No	Luer-Lock female	Luer-Slip male	400	4.003 416
CHROMAFIL® Xtra	25	1.20	No	Luer-Lock female	Luer-Slip male	400	6.233 172
CHROMAFIL®	25	1.0/0.20	No	Luer-Lock female	Luer-Slip male	400	9.049 020
CHROMAFIL®	25	1.0/0.45	No	Luer-Lock female	Luer-Slip male	400	9.049 021

### LLG-Inline filters, PTFE

LLG-Inline filters with PP housing. The PTFE membrane is particularly suitable for filtration of aggressive chemicals, including acids and non-aqueous solutions. Also ideal for clarifying filtration of organic solutions, sterile filtration of gases, as well as sterile aeration and deaeration.

LLG Labware

- Multiple autoclavable at 121 °C for 20 minutes at 2 bar, max. 3 cycles
- High throughput with low pressure drop
- For air and gases in both directions

Ø	Pore size	PK	Cat. No.
mm	µm		
50	0.22	20	4.685 658
50	0.45	20	4.685 659



### In-line filters Midisart® 2000



Sartorius Stedim

For sterile ventilation of fermenters, culture vessels, etc. or to act as a water barrier between the suction flask and the vacuum pump in filtration applications. The supported PTFE membrane within a PP housing gives excellent chemical resistance. Filter in either direction (3 bar max. pressure).

- Stepped horse-barb of 6-12 mm on either sides
- sterile single packed filters, autoclavable

Filter diam. mm	Pore size µm	Connection	Colour	Sterile	PK	Cat. No.
62	0.45	Hose barb	White	+	12	9.049 156
62	0.45	Hose barb	White	+	25	9.049 157
62	0.20	Hose barb	White	+	25	9.049 152
62	0.20	Hose barb	White	-	100	9.049 153



### LLG-Filtering apparatus, borosilicate glass

Universally applicable filtration unit made of high-quality borosilicate glass. Wide range of applications for filtration with filter paper or membrane filters (47 mm).

LLG Labware

- Large funnel (300 ml) with scale
- Filter flask 1 or 2 litres, with scale
- Safe plastic olive
- Filter plate with porosity 2
- Filter plates with porosity 1 or 3 optionally available
- All components available as spare parts

**Scope of supply:** Filter flask NS 45/40, funnel 300 ml, filter holder NS 45/40 with connector GL 14 and filter plate 47 mm (por. 2), clamp

Description	PK	Cat. No.
LLG-Filtering apparatus 1000 ml	1	6.291 850
LLG-Filtering apparatus 2000 ml	1	6.291 851



### Filter funnels VitraPOR®, Borosilicate glass 3.3

Borosilicate glass 3.3, with sintered disc filter as outlined below. Autoclavable.

ROBU Glasfilter-Geräte

Capacity ml	Ø mm	Shaft diam. mm	Porosity	PK	Cat. No.
50	36	10	1	1	9.052 367
50	36	10	2	1	9.052 368
50	36	10	3	1	9.052 369
50	36	10	4	1	9.052 370
75	48	10	1	1	9.052 371
75	48	10	2	1	9.052 372
75	48	10	3	1	9.052 373
75	48	10	4	1	9.052 374
125	60	10	1	1	9.052 375
125	60	10	2	1	9.052 376
125	60	10	3	1	9.052 377
125	60	10	4	1	9.052 378
125	48	10	ASTM Fine	1	4.680 332
250	80	18	3	1	9.052 068
250	80	18	4	1	9.052 069
500	95	22	3	1	9.052 381
500	95	22	4	1	9.052 382
1000	124	22	3	1	9.052 385
1000	124	22	4	1	9.052 386





### LLG Buchner funnels, porcelain

LLG Labware

For filterpaper diam. mm	Capacity ml	PK	Cat. No.
45	35	1	6.239 903
55	70	1	6.237 328
70	120	1	6.231 541
90	240	1	9.252 500
110	400	1	9.252 501
125	600	1	9.252 502
150	1000	1	9.252 503
185	2000	1	9.252 504
240	4000	1	9.252 505



### Buchner funnels, porcelain

To DIN 12905.

Haldenwanger GmbH

For filter diam. mm	Capacity ml	DIN	PK	Cat. No.
18	3		1	9.252 018
27	10		1	9.252 027
40	25		1	6.078 858
45	50	12905	1	9.252 045
55	75	12905	1	9.252 055
70	135	12905	1	9.252 070
90	290	12905	1	9.252 090
110	580	12905	1	9.252 110
125	795	12905	1	9.252 125
150	1250	12905	1	9.252 150
185	1900	12905	1	9.252 185
240	4300	12905	1	9.252 240
270	5800	12905	1	9.252 270
320	10600	12905	1	9.252 320



### Rubber Spacers (GuKo), natural rubber

Rubber Spacers, made of natural rubber (NR). Conical, to fit filter funnels or crucibles into suction flasks. Durometer 40 Shore A

Deutsch &amp; Neumann

Top diam. mm	Bottom diam. mm	Height mm	Thickness mm	Colour	PK	Cat. No.
21	12.0	18	2.5	grey	1	9.052 412
27	17.0	20	3.0	grey	1	9.052 417
33	21.0	24	3.0	grey	1	9.052 423
41	27.5	27	4.0	grey	1	9.052 427
53	33.0	34	5.0	grey	1	9.052 432
68	48.0	35	5.5	grey	1	9.052 436
78	58.0	35	6.0	grey	1	9.052 439
89	66.0	40	6.5	grey	1	9.052 443

### Set of rubber spacers (GuKo), natural rubber

Comprises of 5, 7 or 8 Gukos with an external lower diameter of 12 mm, 17 mm, 21 mm, 27.5 mm, 33 mm, 48 mm, 58 mm and 66 mm each. Hardness 40 Shore A.

Deutsch &amp; Neumann

Type	Colour	PK	Cat. No.
1-5, 5-parts	grey	1	6.077 882
1-7, 7-parts	grey	1	6.077 417
1-8, 8-parts	grey	1	9.052 400
1-5, 5-parts	red	1	6.078 144
1-7, 7-parts	red	1	6.078 145
1-8, 8-parts	red	1	6.077 415

### LLG-Filter flasks with nozzle, borosilicate glass 3.3

Filter flask with side-arm made of glass. With heavy wall for vacuum applications.

LLG Labware

- Erlenmeyer shape
- White graduation and inscription



Nominal capacity	PK	Cat. No.
ml		
100	1	4.686 173
250	1	4.686 174
500	1	4.686 175
1000	1	4.686 176
2000	1	4.686 177

### Filter flasks, Erlenmeyer shape, DURAN®

DIN 12476. ISO 6556. With PBT tubing connection and silicone (VMQ) seal. Heavy wall for vacuum use. These filtering flasks fulfil the regulations of the equipment and product safety regulations.

DWK Life Sciences



Capacity	Ø	Neck diam.	Height	PK	Cat. No.
ml	mm	mm	mm		
100	64	24	105	1	9.051 424
250	85	34	155	1	9.051 436
500	105	34	185	1	9.051 444
1000	135	45	230	1	9.051 454
2000	166	60	255	1	9.051 455

### DURAN® Filtering Flask with Glass Hose Connection, Erlenmeyer shape

DWK Life Sciences



Due to the heavy wall thickness the apparatus is vacuum-tight.



Capacity	Ø	Neck diam.	Height	PK	Cat. No.
ml	mm	mm	mm		
100	64	24	105	1	9.051 201
250	85	34	155	1	9.051 202
500	105	34	185	1	9.051 205
1000	135	45	230	1	9.051 210
2000	166	60	255	1	9.051 220



### LLG-Cryotubes, PP, sterile

LLG Labware



With star-shape in the screw cap, for automated capper/decapper. Temperature resistant down to -196 °C.

**Not appropriate for operations in liquid nitrogen.** With marking area, fill line and graduations printed on the vial. Safe and precise handling of biotechnology materials. Bar-code printed on each tube. DNase/RNase free. Vials and caps are autoclavable at 121 °C.

#### Homogeneous conception:

- All made from polypropylene
- Single-body, single-turn screw cap

Printed graduations for accurate measurements. Large white area for writing specimen identification.

Sterile. Packed in 2 bags of 50 tubes. For research and development only.

Description	Capacity ml	Outer diam. mm	Height mm	Thread	PK	Cat. No.
Self-standing	1.2	12.6	40.2	External	100	9.401 160
Self-standing	1.2	12.6	40.2	Internal	100	9.401 161
Self-standing	2.0	12.6	45.6	External	100	9.401 162
Self-standing	2.0	12.6	48.2	Internal	100	9.401 163
Without ring	2.0	12.6	44.5	External	100	9.401 164
Without ring	2.0	12.6	47.0	Internal	100	9.401 165
Self-standing	5.0	12.6	87.6	External	100	9.401 166
Without ring	5.0	12.6	89.2	Internal	100	9.401 167
Self-standing	5.0	12.6	90.3	Internal	100	9.401 168



### Insert cap disks for LLG cryotubes, PP

Cap-disk with star-shaped insert. For colour-coding of cryotubes and quick identification of the samples.

LLG Labware

Colour	PK	Cat. No.
Blue	1000	9.401 170
White	1000	9.401 171
Yellow	1000	9.401 172
Pink	1000	9.401 173
Red	1000	9.401 174
Green	1000	9.401 175



### Cryogenic tubes, PP

BRAND GMBH + CO.KG



Designed for storage of biological material, such as microorganisms, human and animal cells, etc. in the gas phase of liquid nitrogen. Graduated, 12.5 mm o.d. Large frosted marking area and coloured cap inserts for easy sample identification. Temperature stability to -196 °C. gamma-ray sterile (SAL 10<sup>-6</sup>) and autoclavable at 121 °C (2 bar), according to DIN EN 285. Cryogenic vials are sterile, RNase-, DNase-, DNA- and endotoxin-free.

Description	Capacity ml	Grad. up to ml	Height mm	Thread	PK	Cat. No.
Self-standing	1.2	1.0	41	External	1000	6.801 655
Self-standing	2.0	1.8	49	External	1000	7.079 366
Self-standing	3.0	3.0	70	External	1000	6.802 266
Self-standing	4.0	3.6	76	External	1000	7.059 827
Self-standing	5.0	4.5	90	External	1000	7.300 349
Self-standing	1.2	1.0	41	Internal	1000	7.300 557
Self-standing	2.0	1.8	49	Internal	1000	7.053 349
Self-standing	4.0	3.6	71	Internal	1000	9.401 224



### Cap coders, PP for Brand® cryogenic tubes

For colour coding. Fit for all sizes.

BRAND GMBH + CO.KG

Colour	PK	Cat. No.
White	500	7.200 575
Blue	500	7.077 849
Red	500	7.053 350
Green	500	7.079 679
Yellow	500	7.600 162





**LLG-Cryogenic storage boxes, plastic coated, 136 x 136 mm**

Freezer and cryogenic storage boxes (CryoBoxes). Dimensions: 136 x 136 mm square. For the storage of samples. Made of cardboard, **plastic coated** without divider. With lid. Further colours available on request.

LLG Labware



Colour	Int. height mm	PK	Cat. No.
White	32	1	4.653 682
Red	32	1	6.269 789
White	50	1	6.080 130
Red	50	1	6.081 022
White	75	1	6.802 726
Red	75	1	6.260 007
White	100	1	6.237 840
White	130	1	6.083 519
Red	130	1	4.654 549

**LLG-Partition inserts for Cryoboxes, 136 x 136 mm**

For cryoboxes 136 x 136 mm. With compartment heights and formats as indicated. Other sizes available on request.

LLG Labware



Height mm	Array	For tubes diam. mm	PK	Cat. No.
22	7 x 7	17.9	1	4.654 558
22	9 x 9	13.9	1	4.654 556
22	10 x 10	12.5	1	4.654 555
40	9 x 9	13.9	1	9.405 872
22	12 x 12	10.2	1	4.654 554
30	5 x 5	25.5	1	9.401 055
30	7 x 7	17.9	1	7.617 877
30	8 x 8	15.7	1	6.243 752
40	8 x 8	15.7	1	6.900 361
40	10 x 10	12.5	1	9.405 876
65	6 x 6	21.0	1	6.201 071
65	8 x 8	15.7	1	6.801 789
65	9 x 9	13.9	1	9.405 873
65	4 x 4	32.0	1	9.405 870
65	5 x 5	25.5	1	6.079 677

**LLG-Cryogenic storage boxes, plastic coated, white**

Made of cardboard, plastic coated. Without divider. Square. For the storage of samples. With lid. Further sizes and colours available on request.

LLG Labware



Dimensions mm	Int. height mm	PK	Cat. No.
133 x 133	50	10	6.290 869
133 x 133	75	10	6.290 878
133 x 133	100	10	6.290 879
136 x 136	50	10	6.290 870
136 x 136	75	10	6.290 877
136 x 136	100	10	6.290 873

**LLG-Partition inserts for LLG-Cryoboxes, white**

With compartment heights and formats as indicated. Other sizes available on request.

LLG Labware



Dimensions mm	Height mm	Array	For tubes diam. mm	PK	Cat. No.
133 x 133	30	9 x 9	Approx. 13.0	10	6.290 871
133 x 133	30	10 x 10	Approx. 12.0	10	6.290 876
136 x 136	30	10 x 10	Approx. 12.5	10	6.290 872
136 x 136	30	9 x 9	Approx. 13.9	10	6.290 875



### LLG-Cryogenic storage boxes, plastic coated, 133 x 133 mm

Dimensions: 133 x 133 mm square. For the storage of samples. Made of cardboard, **plastic coated**. Without divider. With lid. Further sizes and colours available on request.

LLG Labware

Colour	Int. height mm	PK	Cat. No.
White	32	1	6.260 029
Red	50	1	6.081 654
Green	50	1	6.084 538
Yellow	50	1	6.260 091
Blue	50	1	6.700 568
Red	75	1	6.260 030
Blue	75	1	9.698 776
Red	100	1	9.698 787
Green	100	1	9.698 788
Yellow	100	1	9.698 789
Blue	100	1	9.698 786
White	130	1	6.260 033



### LLG Partition inserts for Cryoboxes, 133 x 133 mm

For cryoboxes 133 x 133 mm. With compartment heights and formats as indicated. Other sizes available on request.

LLG Labware

Height mm	Array	For tubes diam. mm	PK	Cat. No.
22	9 x 9	13.0	1	6.265 799
22	10 x 10	12.0	1	6.265 800
30	5 x 5	24.5	1	7.606 811
30	7 x 7	17.3	1	9.698 773
30	8 x 8	15.0	1	9.698 772
40	7 x 7	17.3	1	9.698 783
40	9 x 9	13.0	1	9.698 781
40	10 x 10	12.0	1	9.698 780
65	7 x 7	17.3	1	9.698 793
65	9 x 9	13.0	1	9.698 791

### Cryogenic boxes, 81 well, PP, autoclavable

Dacos A/S



The boxes are made of polypropylene and can be used in temperatures as low as -90 °C. The boxes are autoclavable at +121 °C for 20 minutes. The boxes have a fixed grid divider with 9x9 cells and are suited for 1.0 ml and 2 ml cryogenic vials. Cellcodes are printed on the lid for easy identification.



Type	Dimensions (W x D x H) mm	PK	Cat. No.
Blue	130 x 130 x 50	1	9.698 708
Green	130 x 130 x 50	1	9.698 709
Natural	130 x 130 x 50	1	9.698 710
Red	130 x 130 x 50	1	9.698 711
Yellow	130 x 130 x 50	1	9.698 712
Blue	130 x 130 x 50	5	6.290 856
Green	130 x 130 x 50	5	6.290 857
Natural	130 x 130 x 50	5	6.290 855
Red	130 x 130 x 50	5	6.290 859
Yellow	130 x 130 x 50	5	6.290 858

### LLG-Measuring cylinders, borosilicate glass 3.3, tall form, class A

Tall form. Conformity certified with batch ID.  
 - DIN EN ISO 4788  
 - With hexagonal base and spout  
 - Blue graduation

LLG Labware

Nominal capacity	Grad.	Tolerance	PK	Cat. No.
ml	ml	ml		
5	0.1	±0.05	2	4.686 202
10	0.2	±0.10	2	4.686 203
25	0.5	±0.25	2	4.686 204
50	1.0	±0.50	2	4.686 205
100	1.0	±0.50	2	4.686 206
250	2.0	±1.00	2	4.686 207
500	5.0	±2.50	2	4.686 208
1000	10.0	±5.00	1	4.686 209
2000	20.0	±10.00	1	4.686 210

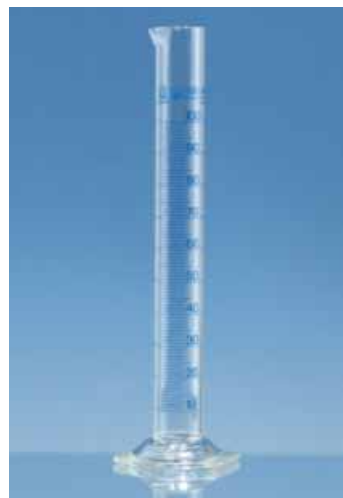


### Measuring cylinders, borosilicate glass 3.3, tall form, class A, blue graduated

With spout, tall form. BLAUBRAND®. To DIN EN ISO 4788. DE-M marking with works certified batch number. With spout and hexagonal foot. Graduations and inscriptions in highly contrasting blue enamel. Calibrated to contain (IN). All BLAUBRAND® cylinders are delivered with batch number and batch certificate. Also available with individual works, USP, or DAkkS (former DKD) calibration certificate on request. The batch certificate is also available to download from the manufacturer's website.

BRAND GMBH + CO.KG

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	2	6.290 835
10	0.2	0.10	140	2	6.290 836
25	0.5	0.25	170	2	6.290 837
50	1	0,5	200	2	6.290 838
100	1	0,5	260	2	6.290 839
250	2	1,0	335	2	6.290 840
500	5	2,5	365	2	6.290 841
1000	10	5,0	465	2	6.290 842
2000	20	10	505	1	9.274 164



### Measuring cylinders, DURAN®, tall form, class A, blue graduation

IN (TD) calibrated. With spout and hexagonal glass base. Main ring graduation. With dated batch identification. Declaration of conformity acc. to DIN 12600. Graduation in durable blue enamel, acc.to DIN EN ISO 4788. For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available. Also available with dated batch identification acc. to USP (US Pharmacopeia).

Hirschmann Laborgeräte

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
1000	10	5.0	470	1	9.274 187
5	0.1	0.05	115	2	4.683 903
10	0.2	0.1	140	2	4.683 904
25	0.5	0.25	170	2	4.683 905
50	1	0.5	200	2	4.683 906
100	1	0.5	260	2	4.683 907
250	2	1.0	335	2	4.683 908
500	5	2.5	390	2	4.683 909
2000	20	10.0	500	1	9.274 188



### Measuring cylinders, DURAN®, tall form, class A, amber stain graduation

IN (TC) calibrated. With spout and hexagonal glass base. Main point ring graduation. With dated batch identification. Declaration of conformity acc. to DIN 12600. With durable amber stain graduation, acc. to DIN EN ISO 4788. For those products batch calibration reports, which are free of charge, can be generated and printed on www.hirschmannlab.com. Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Hirschmann Laborgeräte

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.05	115	1	6.901 399
10	0.2	0.1	140	1	6.250 413
25	0.5	0.25	170	1	6.700 903
50	1.0	0.5	200	1	6.201 104
100	1.0	0.5	260	1	6.303 988
250	2.0	1.0	335	1	6.250 483
500	5.0	2.5	390	1	6.222 339
1000	10.0	5.0	470	1	6.200 496
2000	20.0	10.0	500	1	6.206 675





### Measuring cylinders USP, borosilicate glass 3.3, tall form, class A, blue graduated

DIN EN ISO 4788, DE-M marking. Calibrated to contain (IN). Ring marks at major graduations. Marks and inscriptions in high contrast blue enamel. With spout and hexagonal base. Incl. USP batch certificate. On request, also available with USP individual certificate.

BRAND GMBH + CO.KG

Nominal capacity	Division	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0,05	115	2	4.689 134
10	0.2	0,10	140	2	4.689 135
25	0.5	0,17	170	2	4.689 136
50	1.0	0,25	200	2	4.689 137
100	1.0	0,5	260	2	4.689 138
250	2.0	1	335	2	4.689 139
500	5.0	2	365	2	4.689 140
1000	10.0	3	465	1	6.261 313
2000	20.0	6	505	1	9.275 007



### Measuring cylinders, DURAN®, tall form, class B, blue graduation

IN (TD) calibrated. With spout and hexagonal glass base, short line. Tolerances better than class B requirements. Graduation in durable blue enamel, acc.to DIN EN ISO 4788.

Hirschmann Laborgeräte

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
5	0.1	0.075	115	1	9.274 198
10	0.2	0.15	140	1	9.274 199
25	0.5	0.375	170	1	9.274 200
50	1	0.75	200	1	9.274 201
100	1	0.75	260	1	9.274 202
250	2	1.5	335	1	9.274 203
500	5	3.75	390	1	9.274 204
1000	10	7.5	470	1	9.274 206
2000	20	15.0	500	1	9.274 207



### Measuring cylinders, borosilicate glass 3.3, tall form, class B, amber graduation

BRAND GMBH + CO.KG

Available with glass, or detachable plastic, feet and PP protective collars (plastic feet and collar are not autoclavable). With spout, tall form. SILBERBRAND Eterna. Class B. To DIN EN ISO 4788. With spout and hexagonal foot. Graduations and inscriptions in Eterna permanent amber stain. Calibrated to contain (IN).

Nominal capacity	Division	Tolerance	Height	Foot	PK	Cat. No.
ml	ml	± ml	mm			
5	0	0,08	115	Glass	2	4.688 862
10	0	0,15	140	Glass	2	4.688 979
25	1	0,4	170	Glass	2	4.688 052
50	1	0,8	200	Glass	2	4.688 980
100	1	0,8	260	Glass	2	4.688 053
250	2	1,5	335	Glass	2	4.688 992
500	5	4	365	Glass	2	4.688 054
1000	10	8	465	Glass	1	9.274 062
2000	20	15	505	Glass	1	9.274 064

### Measuring cylinders, PP, tall form, class B, blue moulded graduations

VITLAB GmbH



Highly transparent. With easily readable, raised, embossed blue scale and ring marks at the primary scale points. Calibrated 'In'. Class B tolerances according to DIN 12681/ISO 6706. Hexagonal base with bottom studs provides high stability. Thermal stress up to 80 °C does not cause tolerance limits to be permanently exceeded. To preserve markings, do not clean at temperatures exceeding 60°C. Food-safe product according to regulation (EU) No. 10/2011.



Capacity	Grad.	Tolerance	Ø	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0.20	0.2	15	145	1	9.274 408
25	0.50	0.5	22	170	1	9.274 409
50	1.00	1.0	27	200	1	9.274 410
100	1.00	1.0	33	250	1	9.274 411
250	2.00	2.0	44	315	1	9.274 412
500	5.00	5.0	58	360	1	9.274 413
1000	10.00	10.0	69	440	1	9.274 414
2000	20.00	20.0	97	482	1	9.274 415

### Measuring cylinders, PP, tall form, class B, moulded graduations

VITLAB GmbH



Tall form. Highly transparent. With a raised scale and ring marks at the primary scale points, calibrated 'In'. Class B tolerances according to DIN 12681/ISO 6706. Hexagonal base with bottom studs provides high stability. Thermal stress up to 80°C does not cause tolerance limits to be permanently exceeded. Food-safe product according to regulation (EU) No. 10/2011.



Capacity	Grad.	Tolerance	Ø	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0.20	0.2	15	145	1	7.075 031
25	0.50	0.5	22	170	1	9.274 420
50	1.00	1.0	27	200	1	9.274 428
100	1.00	1.0	33	250	1	9.274 438
250	2.00	2.0	44	315	1	9.274 448
500	5.00	5.0	58	360	1	9.274 454
1000	10.00	10.0	69	440	1	9.274 462
2000	20.00	20.0	97	482	1	9.274 464

### Graduated cylinders, PP, tall form, class B, embossed scale

BRAND GMBH + CO.KG



Transparent. Exposure to temperatures up to 80°C will not cause permanent exceeding of tolerance limits! Cleaning temperature below 60°C is recommended to preserve marks and inscriptions.

- DIN 12681 and ISO 6706
- Calibrated to contain (TC, In)



Nominal capacity	Division	Tolerance	Height	Temperature resistance	PK	Cat. No.
ml	ml	ml	mm			
10	0.2	0,2	145	80 °C	10	4.688 856
25	0.5	0,5	170	80 °C	10	4.688 859
50	1.0	1,0	200	80 °C	10	4.688 860
100	1.0	1,0	250	80 °C	10	4.688 963
250	2.0	2,0	315	80 °C	5	4.688 863
500	5.0	5,0	360	80 °C	5	4.688 864
1000	10.0	10,0	440	80 °C	5	4.688 868
2000	20.0	20,0	535	80 °C	1	9.274 767



### Measuring cylinders, PMP, tall form, class A, blue graduations

BRAND GMBH + CO.KG



Clear. Exposure to temperatures up to 121 °C (autoclaving) will not cause permanently exceeded error limits. Cleaning at temperatures below 60 °C is recommended to preserve graduations and inscriptions. Class A tolerance is not affected even after 20 washes and 10 autoclave treatments. (DIN 12681 requires: 10 washes and 3 autoclave treatments). Supplied with batch number and one batch certificate per packing unit. On request, they are also available with an individual certificate, USP individual certificate or DAKKS calibration certificate. Batch and individual certificates can also be downloaded at the supplier's website.

- DIN 12681 and ISO 6706
- DE-M marking
- With blue printed graduations and inscriptions

Nominal capacity	Division	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
10	0.2	0,1	145	2	4.688 865
25	0.5	0,25	170	2	4.688 866
50	1.0	0,5	200	2	4.688 867
100	1.0	0,5	250	2	4.688 055
250	2.0	1	315	2	4.688 870
500	5.0	2,5	360	2	4.688 871
1000	10.0	5	440	1	9.274 796
2000	20.0	10	535	1	9.274 797



### LLG-Measuring cylinders, borosilicate glass 3.3, low form, class B

LLG Labware

Low form. Calibrated to contain (TC, IN).

- DIN EN ISO 4788
- With hexagonal base and spout
- Amber graduation

Nominal capacity	Grad.	Tolerance	PK	Cat. No.
ml	ml	ml		
10	1.0	±0.30	2	4.686 211
25	1.0	±0.50	2	4.686 212
50	2.0	±1.00	2	4.686 213
100	2.0	±1.00	2	4.686 214
250	5.0	±2.00	2	4.686 215
500	10.0	±5.00	2	4.686 216
1000	20.0	±10.00	1	4.686 217



### Measuring cylinders, DURAN®, low form, class B, amber stain graduation

Hirschmann Laborgeräte

IN (TC) calibrated. With spout and hexagonal glass base. Tolerances better than class B requirements. Short line graduation. With durable amber stain graduation, DIN EN ISO 4788.

Capacity	Grad.	Tolerance	Height	PK	Cat. No.
ml	ml	± ml	mm		
10	1	0.3	100	1	9.274 190
25	1	0.5	125	1	9.274 191
50	2	1.0	150	1	9.274 192
100	2	1.0	170	1	9.274 193
250	5	2.0	220	1	9.274 194
500	10	5.0	255	1	9.274 195
1000	20	10.0	295	1	9.274 196
2000	50	20.0	345	1	9.274 197



### Measuring cylinders, borosilicate glass 3.3, low form, class B, amber graduations

BRAND GMBH + CO.KG

- SILBERBRAND Eterna
- DIN EN ISO 4788
- With spout and hexagonal foot
- Graduations and inscriptions in Eterna permanent amber stain
- Calibrated to contain IN

Capacity	Grad.	Height	Tolerance	PK	Cat. No.
ml	ml	mm	± ml		
1000	20	285	10	1	9.274 662
2000	50	340	20	1	9.274 664
10	1	90	0.3	2	6.316 477
25	1	115	0.5	2	6.316 478
50	2	145	1	2	6.316 481
100	2	165	1	2	6.316 482
250	5	195	2	2	6.316 483
500	10	250	5	2	6.316 484

**LLG-Mixing cylinders, borosilicate glass 3.3, tall form, class A**

- Tall form. Conformity certified with batch ID.  
 - DIN EN ISO 4788  
 - With hexagonal base and PE stopper  
 - Blue graduation

LLG Labware

Nominal capacity	Grad.	Tolerance	Ground size	PK	Cat. No.
ml	ml	ml			
10	0.2	±0.10	NS10/19	2	4.686 218
50	1.0	±0.50	NS19/26	2	4.686 220
100	1.0	±0.50	NS24/29	2	4.686 221
250	2.0	±1.00	NS29/32	2	4.686 222
500	5.0	±2.50	NS34/35	2	4.686 223
1000	10.0	±5.00	NS45/40	1	4.686 224



**Mixing cylinders, borosilicate glass 3.3, tall form, class A, blue graduated**

- Conformity certified  
 - DIN EN ISO 4788  
 - With PE-stopper  
 - Hexagonal foot  
 - Inscriptions are printed with blue enamel  
 - Batch certificate can be downloaded from website

ISOLAB Laborgeräte

Nominal capacity	Tolerance	Height	PK	Cat. No.
ml	± ml	mm		
10	0,10	160	1	9.275 070
25	0,25	195	1	9.275 071
50	0,50	230	1	9.275 072
100	0,50	290	1	9.275 073
250	1,00	370	1	9.275 074
500	2,50	410	1	9.275 075
1000	5,00	520	1	9.275 076



**Mixing cylinders, borosilicate glass 3.3, tall form, class A, blue graduated**

- All BLAUBRAND® cylinders are supplied with batch number and one batch certificate per packing unit.  
 - DIN EN ISO 4788  
 - DE-M marking  
 - PP stoppers and hexagonal foot  
 - Graduations and inscriptions in highly contrasting blue enamel  
 - Calibrated to contain (IN)

BRAND GMBH + CO.KG

Capacity	Grad.	Height	Neck	PK	Cat. No.
ml	ml	mm	NS		
10	0.2	160	10/19	2	4.680 315
25	0.5	190	14/23	2	4.680 316
50	1	220	19/26	2	4.680 317
100	1	285	24/29	2	4.680 318
250	2	350	29/32	2	4.680 319
500*	5	395	34/35	2	4.680 320

\* Fitted with PE octagonal stoppers.



**Mixing cylinders, borosilicate glass 3.3, stoppered, class B, amber graduated**

- SILBERBRAND Eterna. Class B. To DIN EN ISO 4788. With PP stoppers and hexagonal foot. Graduations and inscriptions in Eterna amber stain. Calibrated to contain (IN). Height given is overall height without stopper

BRAND GMBH + CO.KG

Nominal capacity	Division	Ground size	PK	Cat. No.
ml	ml			
10	0.2	NS10/19	2	4.689 232
25	0.5	NS14/23	2	4.688 987
50	1.0	NS19/26	2	4.688 988
100	1.0	NS24/29	2	4.689 010
250	2.0	NS29/32	2	4.688 997
500	5.0	NS34/35	2	4.688 998
1000	10.0	NS45/40	1	9.275 062





### LLG-Volumetric trapezoidal flasks, borosilicate glass 3.3, class A

Trapezoidal shape. Conformity certified with batch ID.

LLG Labware

- DIN EN ISO 1042
- With standard ground joint and PE stopper
- Blue ring mark and inscription

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	ml				
1	±0.025	NS7/16	DIN EN ISO 1042	2	4.686 225
2	±0.025	NS7/16	DIN EN ISO 1042	2	4.686 226
3	±0.025	NS7/16		2	4.686 227
4	±0.025	NS7/16		2	4.686 228
10	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 229
20	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 230
25	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 231



### Volumetric trapezoidal flasks, boro 3.3, class A, blue graduations

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. Also available with individual works or DAKKS calibration certificate, please enquire.

BRAND GMBH + CO.KG

- DIN EN ISO 1042
- DE-M marking
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)
- With PP stoppers

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	ml				
1	±0.025	NS7/16	DIN EN ISO 1042	2	4.680 322
2	±0.025	NS7/16	DIN EN ISO 1042	2	4.680 323
5	±0.025	NS7/16	DIN EN ISO 1042	2	4.680 324
10	±0.04	NS10/19	DIN EN ISO 1042	2	4.680 325
20	±0.04	NS10/19	DIN EN ISO 1042	2	4.680 326
25	±0.04	NS10/19	DIN EN ISO 1042	2	4.680 327
50	±0.06	NS12/21	DIN EN ISO 1042	2	4.680 328



### LLG-Volumetric flasks, borosilicate glass 3.3, class A

Conformity certified with batch ID.

LLG Labware

- DIN EN ISO 1042
- With standard ground joint and PE stopper
- Blue ring mark and inscription

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	ml				
5	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 232
10	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 233
20	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 234
25	±0.040	NS10/19	DIN EN ISO 1042	2	4.686 235
25	±0.060	NS12/21	DIN EN ISO 1042	2	4.686 236
50	±0.060	NS12/21	DIN EN ISO 1042	2	4.686 238
50	±0.100	NS14/23	DIN EN ISO 1042	2	4.686 237
100	±0.100	NS12/21	DIN EN ISO 1042	2	4.686 239
100	±0.100	NS14/23	DIN EN ISO 1042	2	4.686 240
200	±0.150	NS14/23	DIN EN ISO 1042	2	4.686 241
250	±0.150	NS14/23	DIN EN ISO 1042	2	4.686 242
500	±0.250	NS19/26	DIN EN ISO 1042	2	4.686 243
1000	±0.400	NS24/29	DIN EN ISO 1042	1	4.686 244
2000	±0.600	NS29/32	DIN EN ISO 1042	1	4.686 245



### Volumetric flasks, boro 3.3, class A, blue graduations

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. They are also available with individual certificates or DAkkS calibration certificate upon request.

BRAND GMBH + CO.KG

- DIN EN ISO 1042
- DE-M marking
- Ring marks and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)
- With PP-/PE-stoppers

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	± ml				
5	0.04	NS10/19	DIN EN ISO 1042	2	4.683 911
10	0,025	NS7/16	DIN EN ISO 1042	2	4.689 148
10	0.04	NS10/19	DIN EN ISO 1042	2	4.683 912
20	0.04	NS10/19	DIN EN ISO 1042	2	4.683 914
20	0.06	NS12/21	DIN EN ISO 1042	2	4.683 913
25	0.04	NS10/19	DIN EN ISO 1042	2	4.683 915
25	0.06	NS12/21	DIN EN ISO 1042	2	4.683 916
50	0.06	NS12/21	DIN EN ISO 1042	2	4.683 917
50	0.10	NS14/23	DIN EN ISO 1042	2	4.683 918
100	0.10	NS12/21	DIN EN ISO 1042	2	4.683 919
100	0.10	NS14/23	DIN EN ISO 1042	2	4.683 920
150	0,15	NS14/23	DIN EN ISO 1042	2	6.326 927
200	0.15	NS14/23	DIN EN ISO 1042	2	4.683 921
250	0.15	NS14/23	DIN EN ISO 1042	2	4.683 922
500	0.25	NS19/26	DIN EN ISO 1042	2	4.683 923
1000	0.4	NS24/29	DIN EN ISO 1042	1	9.276 453
1000	0.6	NS29/32	DIN EN ISO 1042	1	7.408 401
2000	0.6	NS29/32	DIN EN ISO 1042	1	9.276 454
5000	1.2	NS34/35	DIN EN ISO 1042	1	9.276 455
10000	2.0	NS45/40	DIN EN ISO 1042	1	9.276 436



### Volumetric flasks, boro 3.3, class A, blue graduations, with PP stopper, incl. USP batch certificate

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. They are also available with individual certificates or DAkkS calibration certificate upon request.

BRAND GMBH + CO.KG

- DIN EN ISO 1042
- DE-M marking
- Graduation and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	± ml				
5	0,02	NS10/19	DIN EN ISO 1042	2	4.688 970
10	0,02	NS10/19	DIN EN ISO 1042	2	4.688 059
20	0,02	NS10/19	DIN EN ISO 1042	2	6.326 926
25	0,03	NS10/19	DIN EN ISO 1042	2	4.688 060
50	0,05	NS12/21	DIN EN ISO 1042	2	4.689 065
100	0,08	NS14/23	DIN EN ISO 1042	2	4.689 149
200	0,1	NS14/23	DIN EN ISO 1042	2	4.688 971
250	0,12	NS14/23	DIN EN ISO 1042	2	4.688 972
500	0,2	NS19/26	DIN EN ISO 1042	2	4.688 973
1000	0,3	NS24/29	DIN EN ISO 1042	1	6.229 184
2000	0,5	NS29/32	DIN EN ISO 1042	1	6.231 849





### Volumetric flasks, DURAN®, class A, blue graduation, with PE stoppers

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to *Hirschmann Laborgeräte* DIN 12600. With NS ground joint and polystopper. Ring mark and graduation in durable blue enamel, acc. to DIN EN ISO 1042. For those products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available. Also available with dated batch identification acc. to USP (US Pharmacopeia).

Nominal capacity	Tolerance	Height	Ground size	Standard	PK	Cat. No.
ml	± ml	mm				
5	0,025	70	NS7/16	DIN EN ISO 1042	1	9.276 680
5	0,04	70	NS10/19	DIN EN ISO 1042	1	9.276 681
10	0,025	90	NS7/16	DIN EN ISO 1042	1	9.276 682
10	0,04	90	NS10/19	DIN EN ISO 1042	1	9.276 683
20	0,04	110	NS10/19	DIN EN ISO 1042	1	9.276 684
20	0,06	105	NS12/21	DIN EN ISO 1042	1	9.276 679
25	0,04	110	NS10/19	DIN EN ISO 1042	1	9.276 685
25	0,06	110	NS12/21	DIN EN ISO 1042	1	9.276 686
1000	0,4	300	NS24/29	DIN EN ISO 1042	1	9.276 695
1000	0,6	300	NS29/32	DIN EN ISO 1042	1	9.276 694
2000	0,6	370	NS29/32	DIN EN ISO 1042	1	9.276 696
5000	1,2	470	NS34/35	DIN EN ISO 1042	1	9.276 697
10000	2,0	570	NS45/40	DIN EN ISO 1042	1	9.276 698
50	0,06	140	NS12/21	DIN EN ISO 1042	2	4.679 560
50	0,08	140	NS14/23	DIN EN ISO 1042	2	4.679 561
100	0,1	170	NS12/21	DIN EN ISO 1042	2	4.679 556
100	0,1	170	NS14/23	DIN EN ISO 1042	2	4.679 557
200	0,15	210	NS14/23	DIN EN ISO 1042	2	4.679 558
250	0,15	220	NS14/23	DIN EN ISO 1042	2	4.679 559
500	0,25	260	NS19/26	DIN EN ISO 1042	2	4.679 562

### Volumetric Flasks, boro 3.3, class A, blue graduations, with glass stoppers

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. They are also available with individual certificates or DAkkS calibration certificate upon request.

*BRAND GMBH + CO.KG*

- DIN EN ISO 1042
- DE-M marking
- Ring marks and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	± ml				
10	0,04	NS10/19	DIN EN ISO 1042	2	4.688 909
20	0,04	NS10/19	DIN EN ISO 1042	2	4.688 938
20	0,06	NS12/21	DIN EN ISO 1042	2	4.689 077
25	0,04	NS10/19	DIN EN ISO 1042	2	4.689 058
25	0,06	NS12/21	DIN EN ISO 1042	2	4.689 164
50	0,06	NS12/21	DIN EN ISO 1042	2	4.689 022
50	0,1	NS14/23	DIN EN ISO 1042	2	4.688 062
100	0,1	NS12/21	DIN EN ISO 1042	2	4.689 035
100	0,1	NS14/23	DIN EN ISO 1042	2	4.689 160
200	0,15	NS14/23	DIN EN ISO 1042	2	4.688 061
250	0,15	NS14/23	DIN EN ISO 1042	2	4.688 894
500	0,25	NS19/26	DIN EN ISO 1042	2	4.688 895
1000	0,4	NS24/29	DIN EN ISO 1042	1	7.018 543
2000	0,6	NS29/32	DIN EN ISO 1042	1	7.018 544
5000	1,2	NS34/35	DIN EN ISO 1042	1	7.018 545
5000	1,2	NS34/35	DIN EN ISO 1042	1	6.231 160

### Volumetric flasks, DURAN®, class A, blue graduation, with hollow glass stopper

IN (TD) calibrated. With dated batch identification. Declaration of conformity acc. to *Hirschmann Laborgeräte*  
 DIN 12600. NS ground with glass stopper. Ring mark and graduation in high contrasting blue enamel. According to DIN EN ISO 1042. For those products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.



Nominal capacity	Tolerance	Height	Ground size	Standard	PK	Cat. No.
ml	± ml	mm				
5	0,025	70	NS7/16	DIN 12600, DIN EN ISO 1042	1	9.276 470
5	0,04	70	NS10/19	DIN 12600, DIN EN ISO 1042	1	9.276 471
10	0,025	90	NS7/16	DIN 12600, DIN EN ISO 1042	1	9.276 472
10	0,04	90	NS10/19	DIN 12600, DIN EN ISO 1042	1	9.276 473
20	0,04	110	NS10/19	DIN 12600, DIN EN ISO 1042	1	9.276 474
20	0,06	105	NS12/21	DIN 12600, DIN EN ISO 1042	1	9.276 489
25	0,04	110	NS10/19	DIN 12600, DIN EN ISO 1042	1	9.276 475
25	0,06	110	NS12/21	DIN 12600, DIN EN ISO 1042	1	9.276 476
50	0,06	140	NS12/21	DIN 12600, DIN EN ISO 1042	1	9.276 477
50	0,08	140	NS14/23	DIN 12600, DIN EN ISO 1042	1	9.276 478
100	0,1	170	NS12/21	DIN 12600, DIN EN ISO 1042	1	9.276 479
100	0,1	170	NS14/23	DIN 12600, DIN EN ISO 1042	1	9.276 480
200	0,15	210	NS14/23	DIN 12600, DIN EN ISO 1042	1	9.276 481
250	0,15	220	NS14/23	DIN 12600, DIN EN ISO 1042	1	9.276 482
500	0,25	260	NS19/26	DIN 12600, DIN EN ISO 1042	1	9.276 483
1000	0,6	300	NS29/32	DIN 12600, DIN EN ISO 1042	1	9.276 484
1000	0,4	300	NS24/29	DIN 12600, DIN EN ISO 1042	1	9.276 485
2000	0,6	370	NS29/32	DIN 12600, DIN EN ISO 1042	1	9.276 486
5000	1,2	470	NS34/35	DIN 12600, DIN EN ISO 1042	1	9.276 487
10000	2,0	570	NS45/40	DIN 12600, DIN EN ISO 1042	1	9.276 488

### Volumetric flasks USP, boro 3.3, class A, blue graduations, with glass stopper, incl. USP batch certificate

All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack. They are also available with individual certificates or DAkkS calibration certificate upon request.

*BRAND GMBH + CO.KG*

- DIN EN ISO 1042
- DE-M marking
- Graduation and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)



Nominal capacity	Tolerance	Ground size	Standard	PK	Cat. No.
ml	± ml				
5	0.02	NS10/19	DIN EN ISO 1042	2	4.689 224
10	0.02	NS10/19	DIN EN ISO 1042	2	4.689 225
20	0.02	NS10/19	DIN EN ISO 1042	2	6.285 869
25	0.03	NS10/19	DIN EN ISO 1042	2	4.689 226
50	0.05	NS12/21	DIN EN ISO 1042	2	4.689 227
100	0.08	NS14/23	DIN EN ISO 1042	2	4.689 228
200	0.10	NS14/23	DIN EN ISO 1042	2	4.689 229
250	0.12	NS14/23	DIN EN ISO 1042	2	4.689 230
500	0.20	NS19/26	DIN EN ISO 1042	2	4.689 231
1000	0.30	NS24/29	DIN EN ISO 1042	1	7.659 410
2000	0.50	NS29/32	DIN EN ISO 1042	1	6.265 775



### LLG-Volumetric pipettes, soda glass, class AS, 1 mark, blue graduated

- DIN EN ISO 648, DIN 12687
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring mark and inscriptions in permanent blue enamel

LLG Labware

Nominal capacity	Length	Tolerance	PK	Cat. No.
ml	mm	± ml		
1.0	310	0,007	10	6.272 207
2.0	330	0,010	10	6.272 208
3.0	360	0,010	10	6.272 209
4.0	360	0,015	10	6.272 210
5.0	400	0,015	10	6.272 211
10.0	440	0,020	10	6.272 212
15.0	455	0,030	10	6.272 213
20.0	510	0,030	10	6.272 214
25.0	520	0,030	10	6.272 215
50.0	540	0,050	10	6.272 216



### Volumetric pipettes, class AS, AR-glass®, 1 marking, blue graduation

All BLAUBRAND® volumetric pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack (up to 2ml: 12 cylinders, above 2.5 ml: 6 cylinders per pack). Also available with individual certificate or DAkkS (former DKD) calibration certificate, please enquire.

BRAND GMBH + CO.KG

- DIN EN ISO 648
- DE-M marking
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to deliver (EX)

Nominal capacity	Length	Tolerance	PK	Cat. No.
ml	mm	± ml		
0.5	300	0,005	12	4.689 118
1.0	300	0,008	12	4.689 119
2.0	330	0,01	12	4.689 120
2.5	330	0,01	6	4.688 045
3.0	330	0,01	6	4.689 098
4.0	400	0,015	6	4.689 099
5.0	400	0,015	6	4.689 100
6.0	400	0,015	6	4.689 101
7.0	400	0,015	6	4.689 102
8.0	440	0,02	6	4.689 103
9.0	440	0,02	6	4.689 104
10.0	440	0,02	6	6.322 140
15.0	510	0,03	6	4.689 106
20.0	510	0,03	6	4.689 107
25.0	520	0,03	6	6.322 141
30.0	520	0,03	6	4.689 109
40.0	540	0,05	6	4.689 110
50.0	540	0,05	6	6.322 142
100.0	585	0,08	6	4.689 112



### Volumetric pipettes, AR-glas®, class AS, 2 marks, blue graduation

BLAUBRAND®. DE-M marking. DIN EN ISO 648. Adjusted to EX. Graduations and inscriptions in highly contrasting blue enamel. All BLAUBRAND® volumetric pipettes are supplied with batch number and one works batch certificate per manufacturer's outer pack. Also available with individual works or DAkkS (former DKD) calibration certificate on request. The batch certificate is also available to download from the supplier's website.

BRAND GMBH + CO.KG

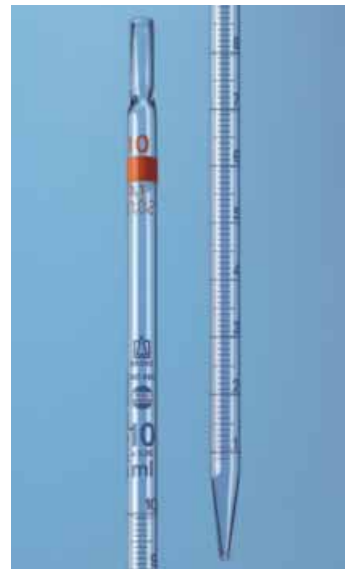
Nominal capacity	Length	Tolerance	PK	Cat. No.
ml	mm	± ml		
0.5	300	0,005	12	4.689 121
1.0	300	0,008	12	4.688 046
2.0	330	0,010	12	4.688 047
3.0	330	0,010	6	4.689 113
5.0	400	0,015	6	4.688 048
10.0	440	0,020	6	4.688 049
15.0	510	0,030	6	4.689 114
20.0	510	0,030	6	4.689 115
25.0	520	0,030	6	4.689 116
50.0	540	0,050	6	4.689 117

## Graduated pipettes, total delivery, AR-glas®, class AS, blue graduation, type 2

All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack. Also available with individual works or DKD calibration certificate on request.

BRAND GMBH + CO.KG

- Type 2 (nominal volume at top)
- DIN EN ISO 835
- DE-M marking
- Marks and inscriptions in high contrast blue enamel
- Calibrated to deliver (TD, EX)
- Waiting time 5 seconds



Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	± ml	mm			
0.5	0.010	0,006	360	Blue	1	9.272 016
1.0	0.010	0,007	360	Blue	1	9.272 017
2.0	0.020	0,01	360	Blue	1	9.272 019
2.0	0.100	0,01	360	Blue	1	9.272 020
5.0	0.050	0,03	360	Blue	1	9.272 021
10.0	0.100	0,05	360	Blue	1	9.272 023
20.0	0.100	0,1	360	Blue	1	9.272 024
50.0	0.100	0,2	450	Blue	1	9.272 026

## LLG-Graduated pipettes, soda glass, class AS, type 3

- DIN EN ISO 835, DIN 12699
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring marks and graduations in permanent blue enamel

LLG Labware



Standard: DIN EN ISO 835, DIN 12699

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	± ml	mm			
1.0	0.010	0,007	360	Blue	10	6.272 200
2.0	0.020	0,01	360	Blue	10	6.272 201
5.0	0.050	0,03	360	Blue	10	6.272 202
10.0	0.100	0,05	360	Blue	10	6.272 203
20.0	0.100	0,1	450	Blue	10	6.272 204
25.0	0.100	0,1	450	Blue	10	6.272 205
50.0	0.100	0,2	720	Blue	10	6.272 206

## Graduated pipettes, Soda-lime glass, class AS, blue graduation, type 3

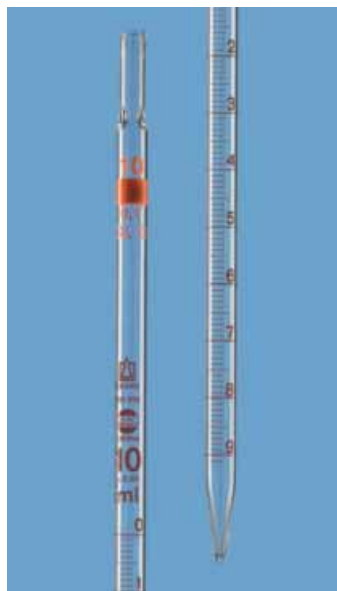
EX (TD) calibrated. Main point ring graduation. With dated batch identification. Declaration of conformity acc. to DIN 12600. Main point ring graduation. High-contrast blue graduation. Graduated to the tip, zero on top. Type 3, acc. to DIN EN ISO 835. From 5ml with cotton plug end as standard. For those products batch calibration reports, which are free of charge, can be generated and printed on [www.hirschmannlab.com](http://www.hirschmannlab.com). Additional single calibration reports or DAkkS certificates (former DKD calibration reports) are available.

Hirschmann Laborgeräte



Standard: DIN 12600, DIN EN ISO 835

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	± ml	mm			
0.5	0.010	0,006	360	Blue	1	9.272 380
1.0	0.010	0,007	360	Blue	1	9.272 381
1.0	0.100	0,007	360	Blue	1	9.272 382
2.0	0.010	0,01	360	Blue	1	9.272 383
2.0	0.020	0,01	360	Blue	1	9.272 384
2.0	0.100	0,01	360	Blue	1	9.272 385
5.0	0.050	0,03	360	Blue	1	9.272 387
5.0	0.100	0,03	360	Blue	1	9.272 388
10.0	0.100	0,05	360	Blue	1	9.272 389
20.0	0.100	0,1	360	Blue	1	9.272 390
25.0	0.100	0,1	450	Blue	1	9.272 391
50.0	0.200	0,2	450	Blue	1	9.272 392



### Graduated pipettes, total delivery, AR-glass®, class AS, amber graduations, type 3

BLAUBRAND® ETERNA, DE-M marking, AR-glass®, DIN EN ISO 835. Type 3 (Zero point at the top), total delivery. Calibrated to deliver (TD, Ex). Waiting time 5 seconds. Ring mark and inscription in ETERNA amber stain. All BLAUBRAND® graduated pipettes are supplied with a batch number and an accompanying batch certificate in the original packaging. On request, they are also available with an individual certificate, USP individual certificate or DAkkS (former DKD) calibration certificate. BRAND GMBH + CO.KG

Nominal capacity	Division	Tolerance	Colour graduation	Standard	PK	Cat. No.
ml	ml	± ml				
0.5	0.010	0,006	Brown	DIN EN ISO 835	12	4.689 204
1.0	0.010	0,007	Brown	DIN EN ISO 835	12	4.689 205
1.0	0.010	0,007	Brown	DIN EN ISO 835	12	4.689 208
2.0	0.020	0,01	Brown	DIN EN ISO 835	12	4.689 206
2.0	0.020	0,01	Brown	DIN EN ISO 835	12	4.689 209
5.0	0.050	0,03	Brown	DIN EN ISO 835	12	4.689 210
5.0	0.100	0,03	Brown	DIN EN ISO 835	12	4.688 043
10.0	0.100	0,05	Brown	DIN EN ISO 835	12	4.689 211
20.0	0.100	0,1	Brown	DIN EN ISO 835	6	4.689 207
25.0	0.100	0,1	Brown	DIN EN ISO 835	6	4.688 044



### Graduated pipettes, total delivery, AR-glas®, class AS, blue graduation, type 2

All BLAUBRAND® graduated pipettes are supplied with batch number and one batch certificate per manufacturer's outer pack. Also available with individual works or DKD calibration certificate on request. BRAND GMBH + CO.KG

- Type 2 (nominal volume at top)
- DIN EN ISO 835
- DE-M marking
- Marks and inscriptions in high contrast blue enamel
- Calibrated to deliver (TD, EX)
- Waiting time 5 seconds

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	± ml	mm			
0.5	0.010	0,006	360	Blue	12	4.689 247
1.0	0.010	0,007	360	Blue	12	4.689 248
2.0	0.020	0,01	360	Blue	12	4.689 250
2.0	0.100	0,01	360	Blue	12	4.689 251
5.0	0.050	0,03	360	Blue	12	4.689 252
10.0	0.100	0,05	360	Blue	12	6.322 138
20.0	0.100	0,1	360	Blue	6	4.689 244
50.0	0.100	0,2	450	Blue	6	4.689 246



### Graduated pipettes, partial delivery, AR-glas®, class AS, blue graduations, type 1

All BLAUBRAND® graduated pipettes are delivered with batch number and enclosed one batch certificate per packing unit of the manufacturer. Also available with individual certificate, USP Individual certificate or DAkkS calibration certificate. BRAND GMBH + CO.KG

- Type 1 (Zero at top)
- DIN EN ISO 835
- DE-M marking
- Ring mark and inscriptions in high contrast blue enamel
- Calibrated to deliver (TD, EX)
- Waiting time 5 seconds

Standard: DIN EN ISO 835

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	ml	mm			
0.5	0.010	0,006	360	Blue	12	4.689 014
1.0	0.010	0,007	360	Blue	12	4.689 015
2.0	0.010	0,010	360	Blue	12	4.688 041
5.0	0.050	0,030	360	Blue	12	4.689 018
10.0	0.100	0,050	360	Blue	12	4.688 042
25.0	0.100	0,100	450	Blue	6	4.689 017

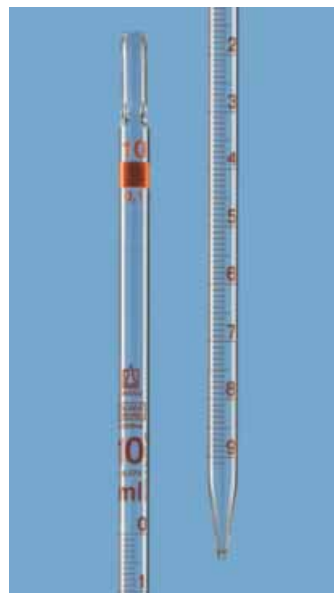
### Graduated pipettes, total delivery, AR-glass®, class B, amber graduations, type 3

- SILBERBRAND Eterna
- DIN EN ISO 835
- Type 3 (zero at top)
- Graduations and inscriptions in Eterna permanent amber diffusion stain
- Adjusted to EX

BRAND GMBH + CO.KG

Standard: DIN EN ISO 835

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	± ml	mm			
1.0	0.010	0,010	360	Brown	1	9.272 070
2.0	0.020	0,015	360	Brown	1	9.272 073
5.0	0.100	0,05	360	Brown	1	9.272 076
10.0	0.100	0,08	360	Brown	1	9.272 077
20.0	0.100	0,150	360	Brown	1	9.272 078
25.0	0.100	0,150	450	Brown	1	9.272 079



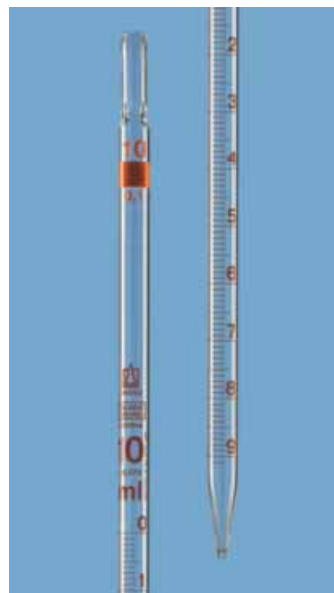
### Graduated pipettes, total delivery, AR-glass®, class B, amber graduations, type 3

- SILBERBRAND Eterna
- DIN EN ISO 835
- Type 3 (zero at top)
- Graduations and inscriptions in Eterna permanent amber diffusion stain
- Adjusted to EX

BRAND GMBH + CO.KG

Standard: DIN EN ISO 835

Nominal capacity	Division	Tolerance	Length	Colour graduation	PK	Cat. No.
ml	ml	ml	mm			
1.0	0.010	0,01	360	Brown	12	4.688 821
2.0	0.020	0,015	360	Brown	12	4.688 823
5.0	0.100	0,05	360	Brown	12	4.688 825
10.0	0.100	0,08	360	Brown	12	6.326 925
20.0	0.100	0,15	360	Brown	6	4.688 819
25.0	0.100	0,15	450	Brown	6	4.688 820



### LLG-Pasteur pipettes, Soda-lime-glass

ISO 7712. Single use. With uniform shape and length. With long drawn, 1.1 mm diameter fine tip, 20 mm suction tube and constriction for tight fitting of cotton wool plugs. External diameter: 7.1 mm. Please order Pipette teats separately.

LLG Labware

Length	PK	Cat. No.
mm		
150	1000	9.411 015
230	1000	9.411 020



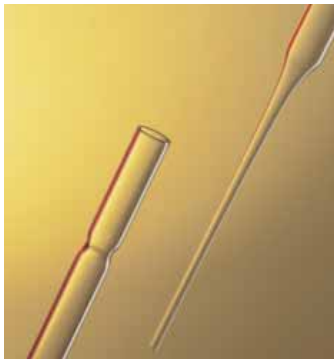


### Pasteur pipettes, Soda-lime-glass

ISO 7712. Long drawn-out capillary tip. Suction end with constriction for a cotton plug.

BRAND GMBH + CO.KG

Nominal capacity	Length	PK	Cat. No.
ml	mm		
1.5	145	1000	4.688 084
1.5	225	1000	4.688 905
1.5	270	1000	4.665 820
1.5	310	1000	4.665 821



### Pasteur pipettes, soda glass

Extra long tip, optimal for NMR applications. With constriction, without cotton wool.

Hilgenberg GmbH

Length	PK	Cat. No.
mm		
300	1000	4.672 077
350	1000	4.672 078



### LLG-Pasteur pipettes, PE

Manufactured from transparent PE. Sterile or non-sterile. Graduated. For research and development only.

LLG Labware

Nominal capacity	Length	Sterile	PK	Cat. No.
ml	mm			
1.0	150	No	500	4.672 670
3.0	150	No	500	4.672 671
1.0	150	Yes	1000	9.401 085
3.0	150	Yes	1000	9.401 084



### Pasteur pipettes, PE

For transfer of liquids. Resistant against almost all acids. Soft and elastic bulb.

Nominal capacity	Bulb draw	Length	Sterile	PK	Cat. No.
ml	ml	mm			
1.0	5.5	153	No	500	9.411 031
1.0	5.5	153	Yes	500	9.411 038
1.5	6.0	228	No	400	7.200 111
1.5	6.0	228	Yes	250	6.226 463
2.0	5.0	152	No	500	7.631 961
4.0	7.0	147	No	500	6.234 514
10.0	15.0	169	No	200	9.411 033
10.0	23.0	301	No	100	6.203 402



### LLG-Serological pipettes, PS, sterile

Serological pipettes from LLG are ideally suited for sterile serological and cell culture applications. Easy to read graduation scales facilitate volume measurement and dosing. All LLG serological pipettes are plugged, sterile, pyrogen-free and have an increased volume capacity through extra graduations.

LLG Labware

- 1 ml, 5 ml, 10 ml, 25 ml and 50 ml pipettes contain a bi-directional secondary graduation scale for precise dosing
- Colour coded ringmark for easy volume identification
- Single packed in easy-to-open plastic/paper packaging

### LLG-Serological pipettes, PS, sterile

- Also available as short-pipettes (5 ml, 10 ml and 25 ml) or wide-mouth pipette (10 ml)  
For research and development only.

Nominal capacity	Division	Length	Grad. up to	Colour graduation	PK	Cat. No.
ml	ml	mm	ml			
1.0	0.010	269	-0.3	Yellow	500	9.380 440
2.0	0.020	272	-0.6	Green	500	9.380 441
5.0	0.100	341	-3.0	Blue	200	7.930 401
10.0	0.100	303	-3.0	Orange	200	6.268 240
25.0	0.200	309	-8.0	Red	150	7.930 403
50.0	0.500	347	-10.0	Violet	100	9.380 443

### LLG-Serological pipettes, PS, sterile, short-pipettes

- Also available as wide-mouth pipette (10 ml)  
For research and development only.

Nominal capacity	Division	Length	Grad. up to	Colour graduation	PK	Cat. No.
ml	ml	mm	ml			
5.0	0.100	235	-3.0	Blue	200	6.265 881
10.0	0.200	235	-10.0	Orange	150	6.265 882
25.0	0.500	235	-9.0	Red	100	6.265 883

### LLG-Serological pipettes, PS, sterile, wide-mouth

- Also available as short-pipettes (5 ml, 10 ml and 25 ml)  
For research and development only.

Nominal capacity	Division	Length	Grad. up to	Colour graduation	PK	Cat. No.
ml	ml	mm	ml			
10.0	0.100	346	-3.0	Orange	200	9.380 442



### LLG-Pipette controller easy

The LLG-Pipette controller easy enables fast and exact pipetting with glass and plastic pipettes.

LLG Labware

- Ergonomic and lightweight construction for constant ease of use over prolonged usage
- Unique nose cone angle for enhanced flexibility in operation e.g. in fume hoods
- Eco-friendly rechargeable NiMH batteries, offering up to 8 hours of continuous working
- Easily replaceable batteries
- Autoclavable tip cone for avoiding cross-contamination

**Scope of supply:** Pipette controller, manual, charger, wall-mount, desktop stand

Description	Plug type	PK	Cat. No.
LLG-Pipette controller easy	EU	1	6.263 683
LLG-Pipette controller easy	UK	1	6.263 684





### LLG single channel microliter pipettes, variable

Available with fixed or adjustable volume. Ergonomic shape for a very comfortable handling.

LLG Labware

Capacity	Division µl	Accuracy ± R%	Colour coding	No. of channels	PK	Cat. No.
0.1 ... 2.5 µl	0.050	2,50	Grey	1	1	9.280 000
0.5 ... 10 µl	0.100	1,00	Grey	1	1	9.280 001
2 ... 20 µl	0.500	0,90	Grey	1	1	9.280 002
10 ... 100 µl	1.000	0,80	Yellow	1	1	9.280 003
20 ... 200 µl	1.000	0,60	Yellow	1	1	9.280 004
100 ... 1000 µl	5.000	0,60	Blue	1	1	9.280 005
500 ... 5000 µl	50.000	0,50	Violet	1	1	9.280 006
1,000 ... 10000 µl	100.000	0,60	Turquoise	1	1	9.280 007

### Single channel microliter pipettes LLG-proMPL

LLG Labware



The LLG-proMPL single channel microliter pipettes combine high accuracy and reliability with ergonomic and extremely low force pipetting relieving stress from your hand and thumb. This high precision instrument has been built to maintain accuracy for many years making it the ideal choice for all scientific work requiring exact and reproducible pipetting. The LLG-proMPL pipettes are equipped with an adjustable eject button allowing right and left handed users to set the button\*according to their preferences. The built in volume locking mechanism and competitive pricing complete these high quality precision pipettes. Available volume ranges from 0.2 µl to 10 ml.

- High quality **Made in France**
  - High accuracy, reliability and reproducibility
  - Extremely light weight while the robustness still remains
  - Perfect ergonomics for highest comfort
  - Colour-coded push-button for quick operation
  - Extremely low pipetting forces
  - **Built-in volume locking** for error-free results
  - **Tip ejector button\*, adjustable for right- and left-handed users**
  - Completely autoclavable at 121 °C
  - Including individual calibration certificate (according to EN ISO 8655)
- \*not available for 5 ml and 10 ml pipettes

**Scope of supply:** microliter pipette, calibration tool

Capacity	Division µl	Accuracy ± R%	Colour coding	No. of channels	PK	Cat. No.
0.2 ... 2 µl	0.002	1,65	Orange	1	1	6.270 420
0.5 ... 10 µl	0.020	1,10	Red	1	1	6.270 421
2 ... 20 µl	0.020	1,00	Light yellow	1	1	6.270 422
10 ... 100 µl	0.200	0,80	Light orange	1	1	6.270 423
20 ... 200 µl	0.200	0,80	Yellow	1	1	6.270 424
100 ... 1000 µl	2.000	0,80	Blue	1	1	6.270 425
500 ... 5000 µl	2.000	0,66	Violet	1	1	6.270 426
1,000 ... 10000 µl	20.000	0,60	Light blue	1	1	6.270 427

### LLG-Pipette carousel, ABS

LLG-Pipette carousel made of ABS for safe and comfortable storage of microlitre pipettes. Rotating stand allows quick access to the desired pipette.

LLG Labware

- Space-saving storage of up to 6 single channel or multi-channel pipettes
- Suitable for common pipette brands of BRAND, Eppendorf®, Thermo Fisher Scientific and RAININ
- Easy to clean

Description	PK	Cat. No.
LLG-Pipette carousel	1	6.490 522

### LLG-Pipette stands for single channel microliter pipettes, PMMA

White, stable plastic (PMMA), industrial grade. Pipettes are held in an ergonomic position for easy withdrawal and replacement. Adjustable heights. Suitable for all kind of pipettes.

LLG Labware

Description	PK	Cat. No.
for 4 pipettes	1	9.280 014
for 6 pipettes	1	9.280 011



**LLG-Pipette tips economy 2.0, PP**



LLG Labware



The new generation of LLG Labware Pipette tips economy. Available in bulk quantities in bags or in easy-to-open boxes with color coded racks. Racked-tip boxes are delivered in a dispenser, which can be opened from two sides facilitating the use of the product on two work spaces. Compatible with all common pipette brands. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Autoclavable
- DNase and RNase free

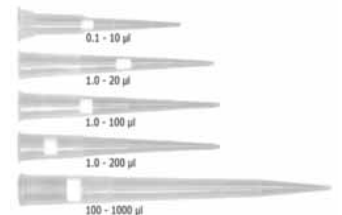
Low retention: No

Capacity	Colour	Tip form	Sterile	With filter	PK	Cat. No.
0.1 ... 10 µl	Transparent	Standard	No	No	1000	4.668 775
0.1 ... 10 µl	Transparent	XL	No	No	1000	6.491 405
0.1 ... 10 µl	Transparent	Standard	No	No	960	4.668 776
0.1 ... 10 µl	Transparent	XL	No	No	960	6.491 406
1 ... 200 µl	Transparent	Standard	No	No	960	4.668 778
1 ... 200 µl	Yellow	Standard	No	No	1000	4.668 777
1 ... 200 µl	Yellow	Standard	No	No	960	4.668 779
100 ... 1000 µl	Transparent	Standard	No	No	1000	4.668 780
100 ... 1000 µl	Transparent	Standard	No	No	768	4.668 782
100 ... 1000 µl	Blue	Standard	No	No	1000	4.679 861
100 ... 1000 µl	Blue	Standard	No	No	768	4.668 783
100 ... 5000 µl	Transparent	Standard	No	No	250	9.409 097
100 ... 5000 µl	Blue	Standard	No	No	250	6.254 364
1,000 ... 10000 µl	Transparent	Standard	No	No	100	9.409 098

**LLG-Filter tips 2.0 Low Retention, PP**



LLG Labware



The new generation of LLG Labware filter tips with low liquid retention. Available in easy-to-open boxes with colour-coded racks. Compatible with all common pipette brands. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

- Improved optical clarity and pipette fit
- Colour-coded rack inserts for easy identification
- Graduated
- Sterile
- DNase and RNase free
- For research and development only.

Capacity	Colour	Tip form	Sterile	Low retention	PK	Cat. No.
0.1 ... 10 µl	Transparent	Standard	Yes	Yes	960	4.668 784
0.1 ... 10 µl	Transparent	XL	Yes	Yes	960	4.668 785
1 ... 20 µl	Transparent	Standard	Yes	Yes	960	4.668 786
1 ... 100 µl	Transparent	Standard	Yes	Yes	960	4.668 787
1 ... 200 µl	Transparent	Standard	Yes	Yes	960	4.668 788
100 ... 1000 µl	Transparent	Standard	Yes	Yes	768	4.668 789

**LLG-Pipette tip box for LLG-Pipette tips economy 2.0, PP**

Empty, reusable box made of PP with tray for safe storage of pipette tips. The hinged lid can be opened up to 180° and closes the box dust-tight thanks to the click closure.

LLG Labware

- Sturdy and stable box
- Stackable
- Multiple autoclavable
- Suitable for bagware 4.668 777 (yellow pipette tips 200 µl) and 4.679 861 (blue pipette tips 1000 µl)



For	Capacity	PK	Cat. No.
	µl		
8 x 12 pipette tips	1 ... 200	1	4.680 285
6 x 10 pipette tips	100 ... 1000	1	4.680 286

## Pipettes/Reagent Reservoirs-Dispensing/Hand dispensers



### LLG-Disposable reagent reservoirs economy, PS

Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. Angled sides and a V-shaped bottom allow maximum recovery of reagents. All reservoirs have internal graduated volume lines and pour-spouts on the corners. 25 ml or 50 ml versions. Available as sterile and non-sterile versions.

LLG Labware

- DNase-, RNase- and pyrogen-free certified
- For research and development only.

Description	Volume	PK	Cat. No.
	<b>ml</b>		
non-sterile, bulk	25	100	6.282 144
sterile, single packed	25	100	6.282 145
non-sterile, bulk	50	100	6.282 146
sterile, single packed	50	100	6.282 147



### Reagent reservoir, PP



BRAND GMBH + CO.KG

- For multichannel micropipette, 60 ml
- CERTIFIED LIFE SCIENCE QUALITY
- Autoclavable (121 °C)

Description	PK	Cat. No.
non-sterile, with lid	10	9.280 131
sterile, without lid (single packed)	100	9.280 132
sterile, without lid (in bags with 5 pieces)	200	9.280 133

### Manual Serial Dispenser LLG-uniDISPENS

The **ergonomically designed** manual dispenser LLG-uniDISPENS enables single handed volume selection, loading and dispensing. Due to its light weight it is ideally suited for serial dosing. You can flexibly select your desired dosing volume from **120 dosing programs** for 12 tip sizes and with 10 stroke adjustments. You can view all settings and volumes at a single glance through the viewing window of the manual dispenser. The dispenser is **compatible with Ritips® from Ritter, PD-Tips® from Brand, Combitips® and Combitips advanced® from Eppendorf™**. Thanks to a purely mechanical, maintenance-free construction, the manual dispenser is a practical and convenient device for daily laboratory use. 3 years warranty.

LLG Labware

**Scope of delivery:** Adapter for 25 ml tips included

Capacity	PK	Cat. No.
1 ... 5500 µl	1	9.284 238

### Repetitive pipette HandyStep® touch S

Repetitive pipette with colour touch display and automatic tip size recognition.

BRAND GMBH + CO.KG

The automatic tip size recognition of the PD-Tips II, with patented coding on the piston, automatically displays the tip size after inserting the tip. By inserting a new PD-tip of the same size, all instrument settings are maintained.

### Repetitive pipette HandyStep® touch S, incl. charging stand

- Multi-dispensing, auto-dispensing, pipetting, favorites, sequential dispensing, multi-aspiration and titration
- Touchscreen operation with intuitive menu navigation and integrated help function
- Important functions and parameters visible at a glance
- Automatic tip ejection by the press of a button
- Ergonomically arranged STEP button
- Variable volume adjustment from 1.0 µl to 50 ml
- USB-C connection for quick charging by cable
- Inductive charging with optional charging stand
- Compatible third party tips can also be used

**Scope of supply:** Repetitive pipette, charging stand, universal AC adapter (for Europe, UK, USA, Japan, Australia and New Zealand), Li-Ion battery, USB-Type C cable, shelf/rack mount, sample PD-Tips II, operating manual, performance certificate

Capacity	PK	Cat. No.
1 ... 50000 µl	1	6.275 958

## Repetitive pipette HandyStep® touch S

- Multi-dispensing, auto-dispensing, pipetting, favorites, sequential dispensing, multi-aspiration and titration
- Touchscreen operation with intuitive menu navigation and integrated help function
- Important functions and parameters visible at a glance
- Automatic tip ejection by the press of a button
- Ergonomically arranged STEP button
- Variable volume adjustment from 1.0 µl to 50 ml
- USB-C connection for quick charging by cable
- Inductive charging with optional charging stand
- Compatible third party tips can also be used

**Scope of supply:** Repetitive pipette, universal AC adapter (for Europe, UK, USA, Japan, Australia and New Zealand), Li-Ion battery, USB-Type C cable, shelf/rack mount, sample PD-Tips II, operating manual, performance certificate



Capacity	PK	Cat. No.
1 ... 50000 µl	1	9.284 016

## Dispenser tips, PD-Tips II

Thanks to patented size coding, HandyStep® touch, HandyStep® touch S, HandyStep® electronic, Gilson® Repetman® and Rainin AutoRep™ E automatically detect the tip volume. The tips are also compatible with all other instruments of the HandyStep® family and with repetitive pipettes from other manufacturers. BRAND GMBH + CO.KG

- Cylinder: PP/piston: HDPE, 0.1 ml piston: LCP
- Comply with the requirements of ISO 8655
- Supplied with batch certificate
- Adapter for sizes 25 ml and 50 ml included
- PD-Tips II cannot be autoclaved; the adapters are autoclavable



Nominal capacity	Sterile	PK	Cat. No.
<b>ml</b>			
0.10	No	100	9.280 950
0.50	No	100	9.280 951
1.00	No	100	9.280 952
1.25	No	100	9.280 953
2.50	No	100	9.280 954
5.00	No	100	9.280 955
10.00	No	100	9.280 956
12.50	No	100	9.280 957
25.00	No	50	9.280 958
50.00	No	25	9.280 959

## Dispenser tips, PD-Tips II, BIO-CERT®

Thanks to patented size coding, HandyStep® touch, HandyStep® touch S, HandyStep® electronic, Gilson® Repetman® and Rainin AutoRep™ E automatically detect the tip volume. The tips are also compatible with all other instruments of the HandyStep® family and with repetitive pipettes from other manufacturers. BRAND GMBH + CO.KG

- Cylinder: PP/piston: HDPE, 0.1 ml piston: LCP
- Free of human DNA, RNase, DNase, Pyrogens, PCR-Inhibitors and ATP
- Comply with the requirements of ISO 8655
- Supplied with batch certificate
- Adapter for sizes 25 ml and 50 ml included
- PD-Tips II cannot be autoclaved, the adapters are autoclavable



Nominal capacity	Sterile	PK	Cat. No.
<b>ml</b>			
0.10	Yes	100	9.280 960
0.50	Yes	100	9.280 961
1.00	Yes	100	9.280 962
1.25	Yes	100	9.280 963
2.50	Yes	100	9.280 964
5.00	Yes	100	9.280 965
10.00	Yes	100	9.280 966
12.50	Yes	100	9.280 967
25.00	Yes	25	9.280 968
50.00	Yes	25	9.280 969

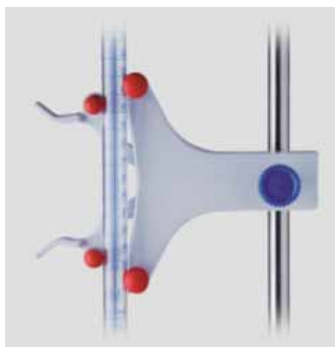


### Burettes, with straight stopcock, borosilicate glass 3.3, class AS

With class AS, conformity certified, with batch identification, blue graduations, DIN EN ISO 385. PTFE spindle.

ISOLAB Laborgeräte

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
with Schellbach line	10	0.02	0.020	1	4.008 311
with Schellbach line	25	0.05	0.030	1	9.270 100
with Schellbach line	50	0.10	0.050	1	9.270 101
without Schellbach line	10	0.02	0.020	1	9.270 102
without Schellbach line	25	0.05	0.030	1	9.270 103
without Schellbach line	50	0.10	0.050	1	9.270 104



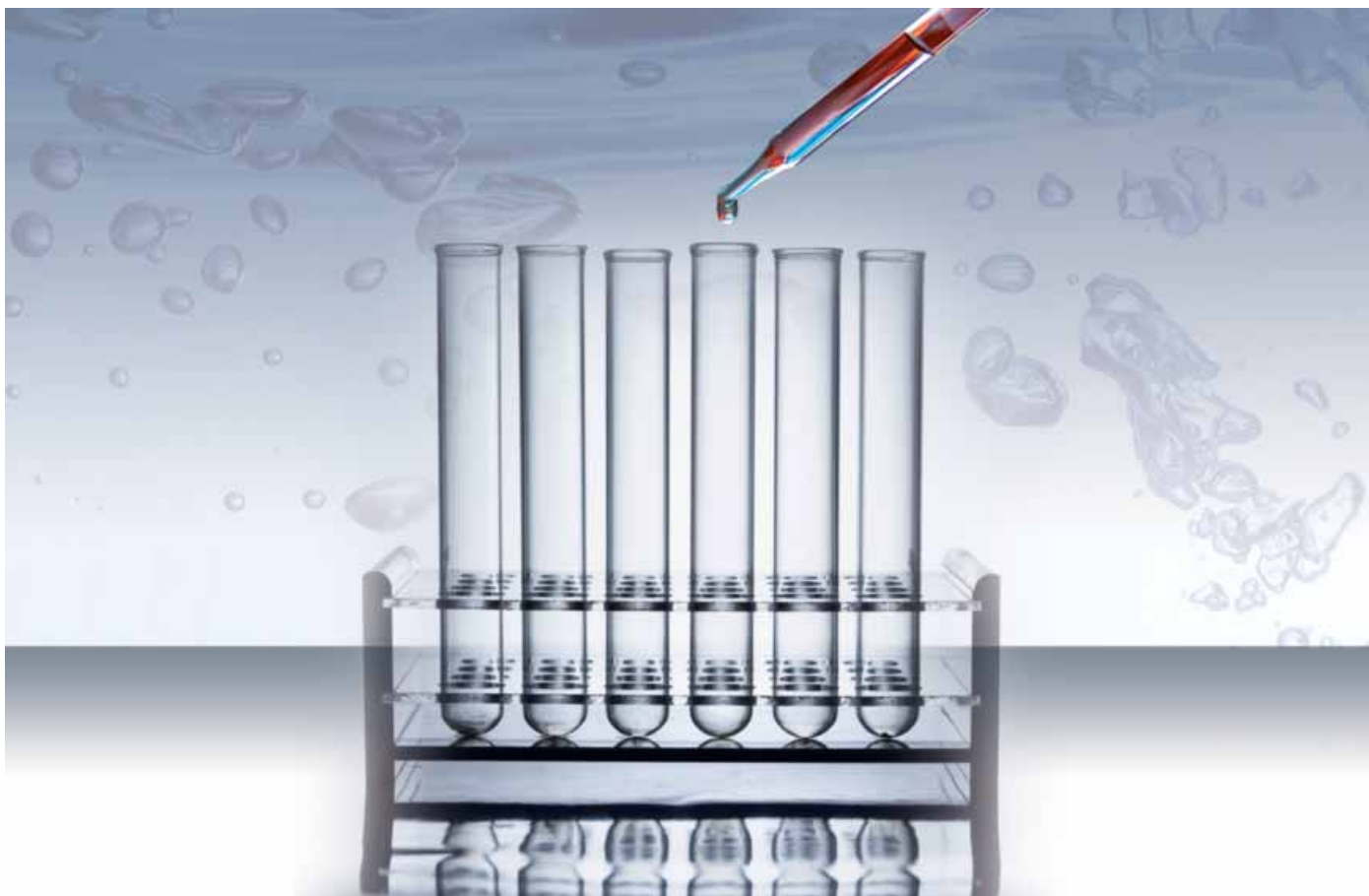
4.008 313

### Burette clamps, steel

Graduations and meniscus line of the burette are clearly visible. They can be used on support rods of 10 - 12 mm diameter.

ISOLAB Laborgeräte

For	PK	Cat. No.
1 burette	1	4.008 313
2 burettes	1	6.288 287



**Automatic burettes, schilling pattern, borosilicate glass 3.3/LDPE**

- Described as automatic burettes with fast titration and practical usage. *ISOLAB Laborgeräte*
- Especially suitable for field analysis where there is a risk of breaking.
- The entire system consists of a burette tubing with automatic zeroing system together with a valve stopcock, a reservoir bottle and a bottle stand.
- Rapid filling by squeezing the bottle and fast titration by valve stopcock
- Inscriptions and graduations are printed either with blue enamel or with white enamel which is specially designed for glass use.
- Clear burettes are manufactured with schellbach stripe.
- Amber burettes are manufactured without schellbach stripe.
- 10 ml burette has a polyethylene reservoir bottle of 500 ml volume whereas 25 and 50 ml burettes are used with bottles of 1000 ml volume.

Description	Capacity	Grad.	Tolerance	PK	Cat. No.
	ml	ml	± ml		
clear glass, schellbach, blue graduated	10	0.05	0.030	1	4.008 314
clear glass, schellbach, blue graduated	25	0.10	0.050	1	6.241 904
clear glass, schellbach, blue graduated	50	0.10	0.050	1	4.008 315
amber, without schellbach, white graduated	10	0.05	0.030	1	4.008 316
amber, without schellbach, white graduated	25	0.10	0.050	1	4.008 317
amber, without schellbach, white graduated	50	0.10	0.050	1	4.008 318



**Automatic burettes acc. to Schilling pattern, blue graduation, DURAN®**

Fast flow burette with 500ml plastic reservoir bottle (up to 10 ml) or 1000 ml (up to 15 ml). *Hirschmann Laborgeräte*  
Schellbach stripe and graduation in high contrast blue enamel,  
scale length approx. 330 mm.

Capacity	Grad.	Tolerance	Bottle size	Scale length	PK	Cat. No.
ml	ml	± ml	ml	approx. mm		
5	0.05	0.03	500	330	1	6.070 009
10	0.05	0.045	500	330	1	7.510 426
15	0.1	0.045	1000	330	1	6.223 256
25	0.1	0.075	1000	330	1	7.510 427
50	0.1	0.075	1000	550	1	6.070 072





### Microscope slides

According to ISO 8037/1. Prewashed and polished. Nominal thickness 1 mm.  
Size 76 x 26 mm. Also available with 20 mm, frosted, writing patch at one end.

*Epredia Netherlands*

Labeling field	Colour	Edge finish	Dimensions (WxD)	Thickness	PK	Cat. No.
				mm		
Without	White	Cut	76 x 26 mm	1	50	9.161 110
Frosted/one-sided	White	Cut	76 x 26 mm	1	50	9.161 145
Without	White	Ground 45°	76 x 26 mm	1	50	9.161 120
Frosted/one-sided	White	Ground 45°	76 x 26 mm	1	50	6.050 042
Without	White	Ground 90°	76 x 26 mm	1	50	6.229 386
Frosted/one-sided	White	Ground 90°	76 x 26 mm	1	50	6.050 000

### Adhesive microscope slides Polysine™

75 x 25 x 1 mm. ground edges 90°, white marking area. Polysine adhesion slides are electrostatically and biochemically adhesive.

*Epredia Netherlands*

The preparation is first adhered by electrostatic attraction and then fixed in place by biochemical binding. Polysine adhesion slides are best suited for paraffin-embedded tissue slices from human sources fixed in formalin, alcohol or Bouin solution. For tissue slices 2-5 µm thick.

Labeling field	Colour	Edge finish	Dimensions (WxD)	Thickness	PK	Cat. No.
				mm		
one-sided	White on transparent	Ground 90°	75 x 25 mm	1	72	6.055 100



### Superfrost® slides

According to ISO 8037/1. With colour-coded writing patch as outlined below.

*Epredia Netherlands*

Size 76 mm x 26 mm. Nominal thickness 1.0mm. With cut or ground edges.

An extensive color palette allows easy and clear identification and classification of different examination preparations.

Labeling field	Colour	Edge finish	Dimensions (WxD)	Thickness	PK	Cat. No.
				mm		
one-sided	White	Cut	76 x 26 mm	1	50	9.161 161
one-sided	Blue	Cut	76 x 26 mm	1	50	9.161 162
one-sided	Pink	Cut	76 x 26 mm	1	50	9.161 163
one-sided	Yellow	Cut	76 x 26 mm	1	50	9.161 164
one-sided	Green	Cut	76 x 26 mm	1	50	9.161 165
one-sided	Orange	Cut	76 x 26 mm	1	50	9.161 166
one-sided	Violet	Cut	76 x 26 mm	1	50	6.206 284
one-sided	White	Ground 45°	76 x 26 mm	1	50	9.161 171
one-sided	Blue	Ground 45°	76 x 26 mm	1	50	9.161 172
one-sided	Pink	Ground 45°	76 x 26 mm	1	50	9.161 173
one-sided	Yellow	Ground 45°	76 x 26 mm	1	50	9.161 174
one-sided	Green	Ground 45°	76 x 26 mm	1	50	9.161 175
one-sided	Orange	Ground 45°	76 x 26 mm	1	50	9.161 176
one-sided	Violet	Ground 45°	76 x 26 mm	1	50	6.233 646



### Adhesive microscope slides Superfrost® Plus

A new application method provides the surface of a slide with a permanent positive charge.

*Epredia Netherlands*

Electrostatic attraction binds fresh, frozen tissue sections and cytology preparations. Also available with blue, yellow, pink or green SuperFrost marking area.

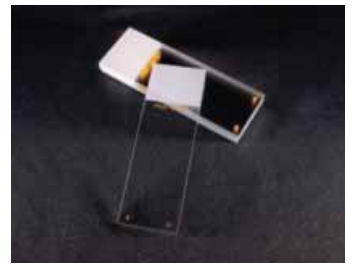
Labeling field	Colour	Edge finish	Dimensions (WxD)	Thickness	PK	Cat. No.
				mm		
one-sided	White on transparent	Ground 90°	75 x 25 mm	1	72	9.161 155



### Adhesive microscope slides Superfrost® Plus Gold

These slides have a complex adhesive technology which attracts and chemically bonds fresh or formalin-fixed frozen tissue sections firmly to the surface of the slide. Recommended for hard-to-hold tissue samples like bone, brain, breast and skin. They are ideal for special stains, immunocytochemical and in-situ DNA hybridisation on these tissue types.

*Epredia Netherlands*



Labeling field	Colour	Edge finish	Dimensions (WxD)	Thickness	PK	Cat. No.
one-sided	White on transparent	Ground 90°	75 x 25 mm	1 mm	72	6.700 125

### Cover slips, rectangular

Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters. Further thicknesses are available on request.

*Epredia Netherlands*

Width	Length	Thickness	PK	Cat. No.
mm	mm	mm		
26	21	0,13-0,16	100	9.161 021
32	24	0,13-0,16	100	9.161 032
40	24	0,13-0,16	100	9.161 040
50	24	0,13-0,16	100	6.205 119
50	24	0,13-0,16	100	9.161 050
60	24	0,13-0,16	100	9.161 060



### Cover slips, square

Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters. Further thicknesses are available on request.

*Epredia Netherlands*

Width	Length	Thickness	PK	Cat. No.
mm	mm	mm		
18	18	0,13-0,16	100	6.085 500
20	20	0,13-0,16	100	9.161 019
22	22	0,13-0,16	100	9.161 023
24	24	0,13-0,16	100	9.161 025



### Circular cover slips

Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters. Diameters as indicated. Further sizes and thicknesses are available on request.

*Epredia Netherlands*

Ø	Thickness	PK	Cat. No.
mm	mm		
5	0.13-0.16	100	7.607 326
10	0.13-0.16	100	9.161 063
12	0.16-0.19	100	6.307 356
12	0.13-0.16	100	9.161 064
13	0.13-0.16	100	9.161 065
14	0.13-0.16	100	9.161 066
15	0.13-0.16	100	9.161 061
18	0.13-0.16	100	9.161 062
18	0.16-0.19	100	7.628 045



### Lens Cleaning Tissues 9963

- Suitable for all uvex lenses
- Silicone-free
- 100 individually sealed tissues in a box
- Incl. clip for wall mounting

*Uvex Arbeitsschutz*

Please order wall mounting unit separately.

Description	PK	Cat. No.
Cleaning tissues 9963	100	6.200 654

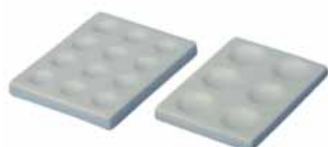




### Microscope slide boxes

Colour-coded for easy identification. Slide boxes are perfect for storage or transportation of standard size slides (76 mm x 26 mm). With cork lining. Stackable. Each 100 place box is secured with a rust-resistant nickel-plated clasp and hinge pin. The 50 place box is secured by a thumb-latch lock mechanism. Each slot is numbered to correspond to the slide inventory sheet on the inside cover of the box. *Heathrow Scientific*

To hold microscope slides	Colour	Dimensions (W x D x H) mm	PK	Cat. No.
25	Red	141 x 88 x 35	1	6.240 818
25	Green	141 x 88 x 35	1	6.240 819
25	Blue	141 x 88 x 35	1	6.241 030
50	Red	209 x 86 x 35	1	9.161 289
50	Blue	209 x 86 x 35	1	9.161 300
50	White	209 x 86 x 35	1	6.268 500
100	Red	208 x 175 x 34	12	6.322 215
100	Green	208 x 175 x 34	1	9.161 285
100	Green	208 x 175 x 34	12	6.322 214
100	Blue	208 x 175 x 34	12	6.322 213
100	White	208 x 175 x 34	12	6.322 217
100	Yellow	208 x 175 x 34	1	9.161 288
100	Yellow	208 x 175 x 34	12	6.322 216
100	Black	208 x 175 x 34	12	6.322 218
100	Grey	208 x 175 x 34	1	6.270 014



### LLG-Spot plates, porcelain

Spot plate with cavities for various spot tests. Glazed.  
 - Rectangular  
 - White  
 - Temperature resistant up to 900 °C *LLG Labware*

Int. bore diam. mm	Width mm	Length mm	Cavity depth mm	Height mm	Number of cavities	PK	Cat. No.
25	81	112	4	25	6	1	6.232 575
17	91	115	2	17	12	1	6.265 001



### LLG-Staining jars, soda-lime-glass

Schiffedercker staining jar: For 20 microscope slides 76 x 26 mm, horizontal  
 Hellendahl staining jar: For 16 microscope slides 76 x 26 mm, vertical  
 Makro staining jar: For 20 microscope slides with 76 x 26 mm (please order rack separately) Rack, stainless steel, for Makro staining jar: With long handle, for 20 microscope slides 76 x 26 mm, horizontal  
 Each staining jar is supplied with a glass lid. *LLG Labware*

Type	Dimensions (W x D x H) mm	PK	Cat. No.
Schiffedercker staining jar	87 x 74 x 40	1	9.163 250
Hellendahl staining jar	60 x 60 x 105	1	9.163 251
Makro staining jar	105 x 90 x 75	1	9.163 252
Rack, stainless steel, for Makro staining jar	85 x 70 x 20	1	9.163 253



### LLG-Cuvettes

LLG-Cuvettes are most frequently used in analytical laboratories. They have two clear windows, two side walls and are available as optical glass or quartz variants. The walls and the base are polished inside and frosted outside. The thickness of the windows and the base is 1.25 mm. The overall height of standard type cells is 45 mm or 48 mm for those fitted with a stopper. Each cuvette is supplied with a PTFE lid.  
 - Optical Glass: 335 to 2500 nm  
 - Quartz: 200 to 2700 nm *LLG Labware*

Type	Volume ml	Path length mm	Description	PK	Cat. No.
quartz-glass	3.5	10	with PTFE Lid	2	4.681 513
quartz-glass	17.5	50	with PTFE Lid	2	4.681 514
optical glass	3.5	10	with PTFE Lid	4	4.681 515
optical glass	17.5	50	with PTFE Lid	4	4.681 516

### Cells for Absorption Measurement, Vis-range

**Wavelength Range:**  
 260 nm - 2500 nm:  
 320 nm - 2500 nm:  
 360 nm - 2500 nm:

**Optical material:**  
 HOQ 310H (UV)  
 Special optical glass (OS)  
 Optical glass (OG)

Hellma GmbH & Co.



Type	Description	Capacity	External dimensions (W x D x H) mm	Internal width mm	Path length mm	optical material	PK	Cat. No.
large cuvette	Large cuvette, glass lid	88000	55 x 55 x 52.5	50	50 ± 0.2	OG	1	6.088 668
macro		3500	12.5 x 12.5 x 45	9.5	10 ± 0.01	UV	1	9.144 301
macro	PTFE lid	3500	12.5 x 12.5 x 45	9.5	10	OG	1	9.144 300
macro	PTFE lid	14000	12.5 x 42.5 x 45	9.5	40	OG	1	9.144 340
macro		17500	12.5 x 52.5 x 45	9.5	50	OG	1	9.144 350
micro	PTFE lid	700	12.5 x 12.5 x 45	2	10	OS	1	9.144 750

### Macro cells for absorption measurement, UV-range, quartz glass High Performance

Quartz glass High Performance 200 - 2500 nm. Inside width 9.5 mm.  
 Base thickness 1.5 mm. Type A: with PTFE lid Type B: with small glass lid Type C: with regular glass lid Type D: with PTFE stopper/from 40 mm with 2 PTFE stoppers

Hellma GmbH & Co.



Type	Path length mm	External dimensions (W x D x H) mm	Capacity µl	PK	Cat. No.
A	5	12.5 x 7.5 x 45	1750	1	9.144 205
A	10	12.5 x 12.5 x 45	3500	1	9.144 210
A	10 (spectrally measured)	12.5 x 12.5 x 45	3500	1	6.302 618
A	20	12.5 x 22.5 x 45	7000	1	9.144 220
A	40	12.5 x 42.5 x 45	14000	1	9.144 240
A	50	12.5 x 52.5 x 45	17500	1	9.144 250
B	1	12.5 x 3.5 x 45	350	1	9.144 201
B	2	12.5 x 4.5 x 45	700	1	9.144 202
D	1	12.5 x 3.5 x 52	350	1	9.144 601
D	2	12.5 x 4.5 x 52	700	1	9.144 602
D	10	12.5 x 12.5 x 46	3500	1	9.144 610

### Macro cells for absorption measurement, VIS-range, special optical glass

Special optical glass 320 - 2500 nm. Inside width 9.5 mm. Base thickness 1.5 mm.  
 Type A: with PTFE-Falzdeckel Type B: with small glass lid Type C: with regular glass lid

Hellma GmbH & Co.



Type	Path length mm	External dimensions (W x D x H) mm	Capacity µl	PK	Cat. No.
A	10	12,5 x 12,5 x 45	3500	1	9.144 110
A	20	12,5 x 22,5 x 45	7000	1	9.144 120
A	40	12,5 x 42,5 x 45	14000	1	9.144 140
A	50	12,5 x 52,5 x 45	17500	1	9.144 150
B	2	12,5 x 4,5 x 45	700	1	9.144 102
C	100	12,5 x 102,5 x 45	35000	1	6.080 494

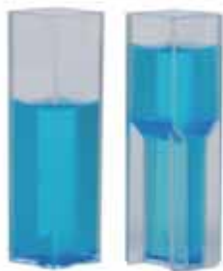


### Cells for Fluorescence Measurement, UV-range

Wavelength Range: 200 nm - 2500 nm Optical material: Quartz glass High Performance

Hellma GmbH &amp; Co.

Type	Description	External dimensions (W x D x H) mm	internal width (mm) / aperture (mm x mm/Ø)	Path length mm	Centre height mm	PK	Cat. No.
macro	PTFE lid, 4 window	12.5 x 12.5 x 45	10	10 x 10		1	9.144 761
macro	PTFE stopper, 4 window	12.5 x 12.5 x 46	10	10 x 10		1	9.144 771
macro	screw cap, with silicone rubber seal	12.5 x 12.5 x 56	10	10 x 10		1	6.055 271
semi-micro	PTFE lid	12.5 x 12.5 x 45	4	10 x 4		1	9.144 781
semi-micro	PTFE stopper	12.5 x 12.5 x 46	4	10 x 4		1	9.144 791
micro	PTFE stopper	12.5 x 12.5 x 40	2	10 x 2		1	9.144 759
micro	PTFE lid	12.5 x 12.5 x 45	2	10 x 2	20.0	1	6.081 483
micro	PTFE lid	12.5 x 12.5 x 45	2	10 x 2		1	9.144 801
ultramicro	PE stopper, 3 window	12.5 x 12.5 x 45	5 x 3	3 x 3	15.0	1	9.144 391
ultramicro	PE stopper, 3 window	12.5 x 12.5 x 45	5 x 3	3 x 3	8.5	1	9.144 390
ultramicro	PE stopper, 3 window	12.5 x 12.5 x 45	5 x 2	10 x 2	15.0	1	6.051 579
ultramicro	PE stopper, 3 window	12.5 x 12.5 x 45	5 x 1.5	1.5 x 1.5	15.0	1	6.250 225
ultramicro	PE stopper, 3 window	12.5 x 12.5 x 45	5 x 1.5	1.5 x 1.5	8.5	1	7.606 579



### LLG-Disposable plastic cells, PS

The shape and narrow wall thickness of the cuvettes enable an excellent heat transfer resulting in constant sample temperatures during photometric measurements.

LLG Labware

- Cavity sorted
- Glass clear polystyrene (PS)
- Applicable wavelength range 340 nm to 900 nm
- Very low variation of extinction values
- Excellent optical transmission range
- Path length 10 mm
- Overall dimensions 12.5 mm x 12.5 mm x 45 mm
- Styrofoam racks: 100 cuvettes in a styrofoam box with cover

Description	Volume ml	Path length mm	Operating range nm	Material	PK	Cat. No.
Macro	4.0	10	340 to 900	PS	100	9.406 011
Semi-micro	1.6	10	340 to 900	PS	100	9.406 012

### Disposable cuvettes

 Disposable cuvettes for spectroscopy, in optical-quality PS and UV grade PMMA with optical windows for optimum transmittance when using wavelengths from 340 nm to 800 nm (PS) and from 280nm to 800 nm (PMMA). Moulding and quality control determine the reproducibility of cuvettes. Kartell cuvettes are strictly controlled and variations should be within the range  $\pm 1\%$  absorption. This is the vital when batch analysis is being undertaken.

Kartell S.p.A.



Description	Volume ml	Path length mm	Material	PK	Cat. No.
Standard cuvettes	4.5	10	PS	100	9.406 431
Semi-micro cuvettes, low form	1.5	10	PS	100	9.406 432
Semi-micro cuvettes, high form	2.5	10	PS	100	9.406 433
Standard cuvettes, 4 clear faces	4.5	10	PS	100	9.406 434
Standard cuvettes	4.5	10	PMMA	100	9.406 435
Semi-micro cuvettes, high form	2.5	10	PMMA	100	9.406 436
Semi-micro cuvettes, low form	1.5	10	PMMA	100	9.406 437
Standard cuvettes, 4 clear faces	4.5	10	PMMA	100	9.406 438

### Accessories for standard and semi-micro cuvettes

Kartell S.p.A.



Description	Material	Length mm	Diam. mm	PK	Cat. No.
Disposable stirrer	PS	90	3	100	9.406 439
Caps for cuvettes	PE-LD			1000	9.406 440
Cuvette holder for 12 cuvettes	PE			1	9.406 441

### Macro and semi micro cuvettes

Sorted by mould cavity number. CERTIFIED LIFE SCIENCE QUALITY.

BRAND GMBH + CO.KG

Quality characteristics:

- Minimal extinction value variation.
- Optically perfect transmission range
- Recessed window, to protect against scratches
- Arrow head marking shows the direction of transmission.

Advantages to user:

- Ideal for kinetics measurements
- 1000 cells from the same cavity in each pack
- Practical packaging: clear, re-closable.

**Polymethylmethacrylate (PMMA) cuvettes** Typical operating range: from 300nm to 900nm. Standard deviation at 320 nm  $\pm 0.004$  extinction units. **Polystyrene (PS) cuvettes** Typical operative range: from 340 nm to 900 nm. Standard deviation at 360 nm  $\leq \pm 0.005$  extinction units. **Macro cell with 4 optical windows, PS/UV-transparent** Particularly suitable for fluorescence spectroscopy. The UV version can be used from a wavelength of 230 nm and shows minimal autofluorescence. Standard deviation: Cuvettes of Polystyrene (PS) at 360 nm  $\leq \pm 0.005$  extinction units, cuvettes UV-transparent at 240 nm  $\leq \pm 0.007$  extinction units and at 300 nm  $\leq \pm 0.005$  extinction units.

Dimensions: 12.5mm x 12.5mm x 45mm  
 Window: Macro cell 10 mm x 35 mm Semi micro cell 4.5 mm x 23 mm

Description	Volume ml	Path length mm	Operating range nm	Material	PK	Cat. No.
Macro	2.5 to 4.5	10	300 to 900	PMMA	100	9.406 111
Semi-micro	1.5 to 3.0	10	300 to 900	PMMA	100	9.406 115
Macro	2.5 to 4.5	10	340 to 900	PS	100	9.406 110
Semi-micro	1.5 to 3.0	10	340 to 900	PS	100	9.406 114
Macro, 4 optical windows	2.5 to 4.5	10	340 to 900	PS	100	6.280 982
Macro, 4 optical windows	2.5 to 4.5	10	340 to 900	PS	500	6.280 981
Macro, 4 optical windows	2.5 to 4.5	10	230 to 900	UV-transparent	100	6.280 680
Macro, 4 optical windows	2.5 to 4.5	10	230 to 900	UV-transparent	500	6.280 980



### UV plastic cuvettes, semi-micro

For determinations in water analysis, chemistry and in life science applications.

BRAND GMBH + CO.KG

- Usable with most polar solvents, acids and alkaline solutions
- Drastically reduced risk of contamination
- Grouped by mold cavity number

Capacity	Path length mm	Operating range nm	PK	Cat. No.
1.5 ... 3.0 ml	10.0	230 ... 900	100	9.406 118



### UV plastic cuvettes, macro

For determinations in water analysis, chemistry and in life science applications.

BRAND GMBH + CO.KG

- Usable with most polar solvents, acids and alkaline solutions
- Drastically reduced risk of contamination
- Grouped by mold cavity number

Capacity	Path length mm	Operating range nm	PK	Cat. No.
2.5 ... 4.5 ml	10.0	230 ... 900	100	9.406 119





### Warning

H phrases: H290|H315|  
H319|H335

### HELLMANEX® III liquid

**Cleaning:** HELLMANEX® III is an alkaline liquid concentrate used for the highly effective cleaning of glass or silica cells and other sensitive optical components. Laboratory equipment made of glass, quartz, sapphire and porcelain can also be cleaned using the solution.

*Hellma GmbH & Co.*

**Characteristics:** Hellmanex® III significantly reduces the surface tension of water. The removal of dirt particles is also assured by the good wetting action of a Hellmanex® III aqueous solution, whilst its high emulsifying and dispersing capabilities prevent the re-deposition of the loosened particles. Special surface-active substances facilitate the residue-free rinsing of the optical components once they have been cleaned.

**Cleaning and Dilution:** The optimal dilution depends on several factors, such as the hardness of the water, the degree and type of contamination, the temperature, etc. The use of demineralised water improves the cleaning characteristics. Available in 1.3 kg PE-bottle.

The following treatments have been proven at a **concentration (vol%) 0.5 to 2** in practice.

Temperature°C	Time minutes
20-25:	120-180
30-35:	30-40
50-60 (quartz only):	10-15
70-80 (quartz only):	5

Type	Capacity	PK	Cat. No.
	I		
HELLMANEX® III	1	1	9.190 985



### Sucrose (Brix) Standards

Certified stabilized Sucrose (Brix) Standards.

*Reagecon Diagnostics*

- ISO 17025 accredited
- Uncertainty of measurement of 0.11 % for all Brix values at 20 °C
- Equivalent Nominal Refractive Index values from ICUMSA published tables reported on Certificate of Analysis
- Compatible with any brand of Refractometer
- 12 month shelf life
- Provided in high quality HDPE 15 ml dropper bottles

Brix %	Refractive Index at 20 °C	PK	Cat. No.
0	1.332986 nD	1	6.264 212
5	1.340264 nD	1	6.265 876
10	1.347824 nD	1	6.257 923
15	1.355679 nD	1	6.263 260
20	1.363842 nD	1	6.264 889
30	1.381149 nD	1	6.258 368
40	1.399860 nD	1	7.660 408
50	1.420087 nD	1	6.258 369
60	1.441928 nD	1	6.265 875



### Universal cleaner neodisher® LaboClean FLA

Alkaline universal detergent for the automated cleaning of laboratory glassware and other utensils for laboratories, liquid concentrate. Universally applicable. With excellent cleaning performance. Removes stubborn oily and other organic residues. Free of surfactants, phosphorous compounds and oxidising agents.

Chemische Fabrik

Type	Capacity	PK	Cat. No.
Canister	5 l	1	9.192 446
Canister	10 l	1	9.192 447
Canister	25 l	1	9.192 448
Barrel	203 l	1	7.970 797



**Danger**

H phrases: H290|H302|H314

### Concentrates for ultrasonic baths TICKOPUR

Concentrates for SONOREX ultrasonic cleaning baths. Enhances cavitation, cleans intensively, kind to most materials and free from chloride. For use cold or warmed up.

Bandelin electronic

### Concentrates for ultrasonic baths TICKOPUR R 33

Universal cleaner, concentrate. Properties: mildly alkaline pH 9.9 at 1%, dosage 3 to 5%. For: metal, light metals, glass, ceramics, plastic, rubber, e-filters, respirators. Against: grinding, polishing and lapping residues, oily and greasy soiling, waxes, silicone films, ink.

Capacity	PK	Cat. No.
l		
1	1	9.192 601
2	1	9.192 602
5	1	9.192 605
10	1	9.192 606



**Danger**

H phrases: H318

### Cleaning Detergent ProCare Lab 10 AP

Liquid, alkaline, versatile, free from tensides, phosphates and oxidative agents. Good material protection and good cleaning performance on stubborn or dried-on residues. Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics (PE, PP, PVDF, PTFE). Not suitable for: Light alloys and non-ferrous metals, aluminium, anodised aluminium.

Miele & Cie. KG

Type	Capacity	PK	Cat. No.
	l		
Canister	5	1	6.281 515
Canister	10	1	6.281 516



**Danger**

H phrases: H290|H302|H314

### Neutralising agent ProCare Lab 30 C

Liquid, acidic (based on citric acid), versatile, free from tensides and phosphates. Good material protection and for residues soluble in acids. Suitable for: Stainless-steel, laboratory glassware, ceramics, plastics (PE, PP, PVDF, PTFE), additionally suitable for the neutralisation of non-anodised aluminium. Not suitable for: Light alloys and non-ferrous metals, chrome- and nichel-plate parts, anodised aluminium, additionally not suitable for acidic pre-cleaning of non-anodised aluminium.

Miele & Cie. KG

Type	Capacity	PK	Cat. No.
	l		
Canister	5	1	6.281 519
Canister	10	1	6.281 520



**Warning**

H phrases: H319

## Disinfection/for Instruments-Cleaning implements/dry wipes



### Reactivation salt ProCare Lab Universal 61

Coarse special salt for reactivation of built-in water softener. It prevents scaling and protects loads.

Miele & Cie. KG

Type	Capacity	PK	Cat. No.
	kg		
Box	6	1	7.660 602



### LLG-Laboratory and hygienic tissues, 2-ply, 150 wipes

- Laboratory and hygienic tissues in dispenser box
- Contains 150 white, double-ply tissues, 210 mm x 220 mm
- Highly absorbent and ultra-soft
- For sensitive application areas
- **Carton of 30 boxes with 150 wipes**

LLG Labware

Wall Mount, wire, white-coated with wall mounting material for packaging up to 70 mm depth, **please order separately.**

Package contents	PK	Cat. No.
Carton of 30 boxes with 150 wipes	30	9.413 220

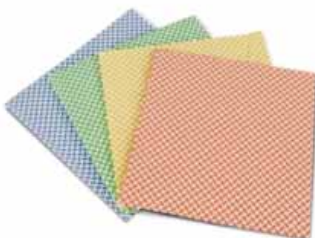


### Laboratory wipes, KIMTECH SCIENCE\*, 2-ply

Tissue wiping cloth for professional use in laboratories. Highly absorbent and soft for wiping up small amounts of liquid and for cleaning pipettes and microscope slides. Chemical resistant and chemically neutral. 2-ply, white. Anti-static.

Kimberly-Clark GmbH

Dimensions	Package contents	PK	Cat. No.
mm			
200 x 210	Box of 100 wipes	1	9.413 017
200 x 210	Box of 200 wipes	1	9.413 015



### Universal dishwashing

**Universal cloth:** Made from 80 % viscose and 20 % polyester. The universal cloth has a finely structured surface. It provides a cleaning result without streaks, is nearly lintfree and washable up to 95 °C. Please wash in lukewarm water before first use.

ZVG Zellstoffvertriebs

**Washing up liquid:** HS citro is a dish washing detergent for universal implementation with a fresh fragrance for porcelain, glass, plastic, and metal. Professional recipe with high grease dissolving strength and plant-based skin protecting additives. 1L

**Sponge:** For cleaning any kind of incrustation.



Description	Colour	Dimensions	PK	Cat. No.
		mm		
Universal cloth	blue/white	380 x 380	10	6.266 668
Universal cloth	red/white	380 x 380	10	6.266 669
Universal cloth	green/white	380 x 380	10	6.266 670
Universal cloth	yellow/white	380 x 380	10	6.266 671
Sponge	green/yellow	150 x 90 x 40	10	6.266 672
Sponge	green/yellow	95 x 70 x 45	10	6.266 673
Washing up liquid, 1L			1	6.266 678



### LLG-Wipe rolls of 102 sheets, 3-ply

Roll with 102 sheets (220 x 260 mm).  
 - strong when wet  
 - absorbent  
 - low lint

LLG Labware



Package contents	PK	Cat. No.
Roll of 102 tissues	2	9.413 224
Roll of 102 tissues	30	4.679 906

### Wipes Multiclean®, 3-ply

Handy cleaning cloths, resistant and with high wet strength they are ideal for light and coarse dirt work. The appropriate holder, whether as floor stand or for wall mounting are available on request.

ZVG Zellstoffvertriebs



Width	Length	Weight	Package contents	PK	Cat. No.
mm	mm	g / m <sup>2</sup>			
220	380	60	2 rolls with 500 tears	2	7.618 013
360	380	54	2 rolls with 500 tears	2	7.618 212
360	380	54	Roll with 1000 tears	1	7.671 903

### Wipes, WypAll\*L10/L20/L30/L40

Perforated, blue Airflex® material. Bulky wipes with excellent absorption capacity and wet strength. For cleaning-up large spillages and suitable for most surfaces.

Kimberly-Clark GmbH

- L10: AIRFLEX®, 1-ply
- L20: AIRFLEX®, 2-ply
- L30: AIRFLEX®, 3-ply
- L40: DRC base material, 1-ply



Width	Length	Type	Package contents	Colour	PK	Cat. No.
mm	mm					
235	380	L10	1 roll x 1500 wipes	white	1	6.206 486
325	385	L10	1 roll x 1000 wipes	blue	1	6.240 858
195	380	L10	6 rolls x 800 wipes	white	6	6.312 879
325	385	L10	1 roll x 1000 wipes	white	1	6.401 596
185	380	L10	6 rolls x 630 wipes	white	6	9.413 018
235	380	L20	1 roll x 500 wipes	blue	1	9.413 054
330	380	L20	1 roll x 500 wipes	blue	1	9.413 044
185	380	L20	6 rolls x 300 wipes	white	6	9.413 091
235	380	L20	1 roll x 1000 wipes	blue	1	4.666 151
235	380	L30	1 roll x 750 wipes	blue	1	6.008 647
370	380	L30	1 roll x 670 wipes	blue	1	9.413 046
370	380	L30	1 roll x 1000 wipes	white	1	7.200 081
317	304	L40	56 wipes	white	18	9.413 093

### LLG-Hand towels, 3-ply

Bright white, extra absorbent, completely unfolding, matching with most dispenser systems, economic use by high absorbancy and comfortable size. Suitable for LLG-Dispenser for hand towels, Cat No 7.618 375.

LLG Labware



Width	Length	Package contents	PK	Cat. No.
mm	mm			
220	420	20 Packs with 100 tissues	20	6.266 568

## Cleaning implements/Towels and dispensers-Absorbent pads / Cotton wool



### LLG-Hand towel dispenser

White plastic, easy to refill, with window to observe the filling level, suitable for towel up to 245 mm width.

LLG Labware

Width	Depth	Height	PK	Cat. No.
mm	mm	mm		
280	137	375	1	7.618 375



### LLG-Cellulose tissue, supplied in stacks

- Unbleached or highly bleached
- Pack quantity: 1 x 5 kg

LLG Labware

Description	Width	Length	PK	Cat. No.
	mm	mm		
unbleached	600	400	5	9.413 210
highly bleached	600	400	5	9.413 211



### Askina® Brauncel® cellulose absorbent pads

Non-sterile. Size 40mm x 50mm. In rolls of 500. Soft, perforated design, easy to tear off. Extremely absorbent and strong.

B. Braun Deutschland

Description	PK	Cat. No.
Cellulose absorbent pads	500	9.413 101
Dispenser	1	9.413 102



### Cotton wool roll

- 100% Cotton
- White cotton - bleaching with Hydrogen Peroxide (non chlorine-bleached and without fluorescent whitening agent)
- according to European Pharmacopoeia & Ecotex 100 Certificate, respond to the maximum rate Standards of Biobinden (100 cfu/g)
- Width - Max. 20 cm, length ±7 m (500 g)

Alan & Co S.A.

For absorbent cotton roll:  
 - highly absorbent  
 - Tenacity of water : appr. 23 g/g of cotton

Description	PK	Cat. No.
Cotton roll 500 g, non-absorbent	1	9.413 156
Cotton roll 500 g, absorbent	1	4.681 029
Cotton roll 500 g, non-absorbent	1	6.317 347



### Cotton wool

Meets requirements of German Pharmacopoeia. 100% cotton. Medical cotton wool for home use and general hygiene.

Paul Hartmann AG

Capacity	PK	Cat. No.
g		
100	1	9.413 152
400	1	9.413 151

### Dustpan, PP

Vikan A/S



- Ergonomically designed
- Food-safe
- For colour coding
- Autoclavable



Length	Colour	PK	Cat. No.
<b>mm</b>			
330	green	1	4.666 171
330	blue	1	4.666 172



### Hand brush, PP

Vikan A/S



- Soft bristles
- To remove fine particles
- Food-safe
- For colour coding
- Autoclavable



Bristle length	Overall length	Width	Height	Colour	PK	Cat. No.
mm	mm	mm	mm			
50	330	35	110	green	1	4.666 176
50	330	35	110	blue	1	4.666 177



### Hand Brush, PP, hard

Vikan A/S



Use this multipurpose Hand Brush to effectively clean tables, conveyor belts, chopping boards, buckets, large bowls and equipment with hard-to-reach corners and crevices. At one end of the brush are even harder bristles, which make it possible to solve persistent dirt.

- Food-safe
- For colour coding
- Autoclavable



Bristle length	Overall length	Width	Height	Colour	PK	Cat. No.
mm	mm	mm	mm			
36	200	70	60	green	1	4.666 231
36	200	70	60	blue	1	4.666 232



### Washing Brush with Long Handle, PP, hard

Vikan A/S



This Washing Brush is ideal for cleaning hard-to-reach surfaces on machines and equipment such as deep buckets, containers and tubs. It has a long handle and angled bristles that enhance cleaning efficacy.

- Food-safe
- For colour coding
- Autoclavable

Bristle length mm	Overall length mm	Width mm	Height mm	Colour	PK	Cat. No.
36	415	71	75	green	1	4.666 236
36	415	71	75	blue	1	4.666 237



### Broom, PP

Vikan A/S



- Material: PP, Polyester, Stainless Steel
- Soft bristles
- To remove fine particles
- Food-safe
- For colour coding
- Autoclavable

Bristle length mm	Overall length mm	Width mm	Height mm	Colour	PK	Cat. No.
52	410	65	130	green	1	4.666 181
52	410	65	130	blue	1	4.666 182
56	610	65	125	green	1	4.666 186
56	610	65	125	blue	1	4.666 187



### Ultra Hygienic Handle, PP

Vikan A/S



- Polypropylene, Glass reinforced
- Cold shock and strength tested
- Ergonomically designed
- Easy to clean and dry
- Chemical resistant
- Smooth surface finish
- Food-safe
- For colour coding
- Autoclavable

Length mm	Ø mm	Colour	PK	Cat. No.
1500	34	green	1	4.666 246
1500	34	blue	1	4.666 247
1300	34	green	1	4.666 251
1300	34	blue	1	4.666 252

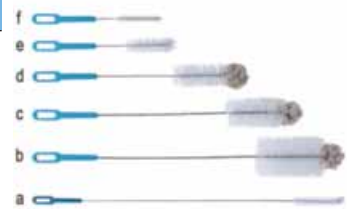
Further products can be found in our online shop.

You can find our complete range on our website.

### LLG-Cleaning brushes

Excellent tools for washing and cleaning of all type of laboratory bottles, flasks, tubes, condensers, burettes, etc. Brush material is manufactured from highest quality of fibre/perlon for long life cycle. Brush stem is manufactured from corrosion proof twisted steel wire. Brush handle is manufactured from polypropylene and offers extreme easy handling and use of the brush. Unique handle design enables hanging of the brush to a convenient place for easy reach. Spherical sponge top part enables access to every corner of the labware and guarantees perfect cleaning results.

LLG Labware



For	Description	Length mm	Figure	PK	Cat. No.
burettes and tubings	LLG-Cleaning brush 20x125 mm	845	a	10	6.267 293
large size bottles	LLG-Cleaning brush 70x130 mm	460	b	10	6.267 294
medium size bottles	LLG-Cleaning brush 50x110 mm	460	c	10	6.267 295
small size bottles	LLG-Cleaning brush 40x110 mm	380	d	10	6.267 296
test tubes	LLG-Cleaning brush 25x100 mm	295	e	10	6.267 297
narrow test tubes	LLG-Cleaning brush 12x80 mm	235	f	10	6.267 298

### Beaker brushes, bristle nylon

With wooden handle.

Reitenspieß-Bürsten

Ø	Overall length	Colour	PK	Cat. No.
mm	mm			
85.0	390	Natural	1	9.019 070
85.0	430	Natural	1	9.019 080
100.0	430	Black	1	9.019 090
100.0	630	Black	1	9.019 092



### Bottle brushes with head bundle, bristles bleached

Galvanised wire with eyelet.

Reitenspieß-Bürsten

Ø	Overall length	PK	Cat. No.
mm	mm		
50.0	330	10	4.667 552
50.0	390	1	6.050 112
55.0	420	1	6.302 557
60.0	470	10	4.667 553



### Test tube brushes with head bundle

Galvanised wire with eyelet.

Reitenspieß-Bürsten

Ø	Overall length	PK	Cat. No.
mm	mm		
10.0	160	1	4.664 562
10.0	250	1	9.019 030
10.0	250	1	7.632 928
15.0	280	1	6.050 110
15.0	280	1	6.262 112



### Test tube brushes with wool tip

Galvanised wire with eyelet.

Reitenspieß-Bürsten

Ø	Overall length	PK	Cat. No.
mm	mm		
10.0	190	1	9.019 020
10.0	230	1	6.077 701
15.0	280	1	9.019 035
15.0	280	1	6.236 807
16.0	190	1	7.670 586
18.0	220	1	7.637 666
20.0	270	1	6.053 832
20.0	270	1	6.256 081
21.0	230	1	6.072 625
26.0	230	1	7.670 713
30.0	270	1	9.019 040



### Pipe cleaners

Laborbedarf

Ø	Overall length	PK	Cat. No.
mm	mm		
4.0	150	100	9.019 005



## Cleaning implements/Hair brushes-Draining racks

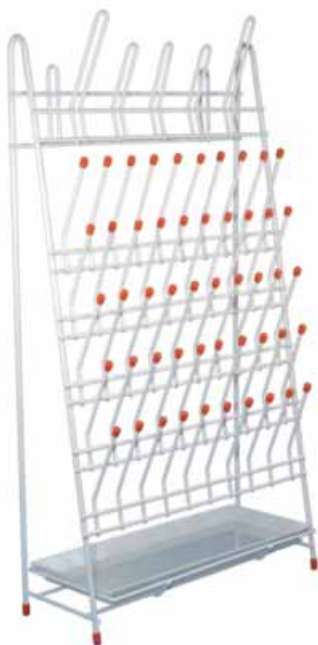


### LLG-Weighing brush, with wooden handle

Fine synthetic hair weighing brush with pointed tips and wooden black handle. Excellent tool for cleaning of weighing boats, weighing dishes and analytical balances.

LLG Labware

Description	Hair length mm	Length mm	PK	Cat. No.
LLG-Weighing brush	30	190	1	6.267 404



### LLG-Draining racks, PE-coated wire

Wall or bench mounting for 50 reagent bottles and 5 flasks. With drip channel and plastic covered feet.

LLG Labware

Dimensions (WxDxH)	No. of arches	No. of pegs	PK	Cat. No.
360 x 130 x 650 mm	5	50	1	6.281 619



### Draining racks, PE-coated wire

Wall or bench mounting. With drip channel and plastic covered feet.

Württ. Drahtwarenfabrik

Dimensions (WxDxH)	No. of arches	No. of pegs	PK	Cat. No.
420 x 170 x 610 mm		53	1	6.083 325
420 x 170 x 610 mm	5	60	1	9.003 305
420 x 170 x 610 mm	20	24	1	9.003 320
420 x 170 x 300 mm	11	12	1	9.003 324



### Bottle carrier, PP



For 6 bottles up to max. diam. 95 mm. Food-safe.

Bürkle GmbH

No. of positions	Compartment Ø mm	Dimensions (WxDxH)	PK	Cat. No.
6	95	210 x 310 x 310 mm	1	6.076 356

**LLG-PCR tubes with attached lids, PP**



LLG Labware

- Individual tubes
- Compatible with all common thermocyclers
- 0.2 ml or 0.5 ml
- Individual attached flat or domed snap caps
- Consistent wall thickness for uniform heat transfer
- Cap design ensures fit and helps reduce sample evaporation
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free



Description	PK	Cat. No.
0.2 ml, single, flat cap	1000	6.313 401
0.2 ml, single, domed cap	1000	6.313 402
0.5 ml, single, flat cap	1000	6.313 403

**LLG-PCR-Tubes, 8 Strips, PP**



LLG Labware

- For 0.2 ml thermocycler blocks
- Detached cap strips can be used as individual tubes when cut
- With domed or flat caps
- Consistent wall thickness for uniform heat transfer
- Contamination-free opening
- Cap strips provide tight seal during all PCR cycles
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free



Description	PK	Cat. No.
8 PCR tube strips plus detached cap strips, domed caps	125	6.313 412
8 PCR tube strips plus detached cap strips, flat caps	125	4.682 694

**Single PCR tubes with attached caps, PP**



BRAND GMBH + CO.KG

The extra thin-walled tubes ensure optimum heat transfer during PCR, for shorter cycle times over a wide range of temperatures. To prevent sample losses from heating, the caps reliably seal the vessels with their tight fit. The caps are easy to open and close. BIO-CERT® PCR QUALITY: Free of human DNA, RNase, DNase, Pyrogens and PCR-Inhibitors.



Volume	Description	Colour	PK	Cat. No.
ml				
0.2	flat cap	clear	1000	9.409 371

**Strips of 8-/12- PCR tubes plus detached cap strips, PP**



BRAND GMBH + CO.KG

Strips of 8 or 12 connected PCR tubes (0.2 ml). Cap strips consisting of 8 or 12 domed caps (available separately) provide tight seal during all PCR cycles, thus protecting samples from cross-contamination. The tubes have a holding strap at one end, and the cover strips on each lid have a small lip on the side for careful, contamination-free opening. Consistent tube wall thickness allows rapid heat transfer along the entire exterior tube surface. Made of pure, virgin polypropylene, free from RNase-, DNase- and DNA. Autoclavable at 121 °C (2 bar), according to DIN EN 285. Other colors on request.



Volume	Description	Colour	PK	Cat. No.
ml				
0.2	Strips of 8 PCR tubes, without caps	clear	125	9.409 374
0.2	Strips of 8 PCR tubes, without caps	yellow	125	9.409 621
0.2	Strips of 8 PCR tubes, without caps	blue	125	9.409 623
0.2	Strips of 8 PCR caps, domed	clear	125	9.409 375
0.2	Strips of 8 PCR caps, flat	clear	125	6.230 345
0.2	Strips of 8 PCR tubes, with detached, flat cap strip	clear	250	4.007 894
0.2	Strips of 8 PCR tubes, with detached, domed cap strip	clear	250	4.007 895
0.2	Strips of 12 PCR tubes, without caps	clear	80	6.320 102



**LLG-96-well PCR Plates, PP**

LLG Labware



- Clear well bottom for sample visibility, with V-Bottom
- Compatible with thermocyclers of all leading brands
- Consistent wall thickness for uniform heat transfer
- Holes in the skirt for easy handling
- Virgin polypropylene, certified RNase-, DNase- and Endotoxin-free

Description	Capacity	PK	Cat. No.
	µl		
96 Well Plate, skirted	200	50	6.313 409
96 Well Plate, non-skirted	200	100	6.313 408
96 Well Plate, half skirted	200	50	6.313 394



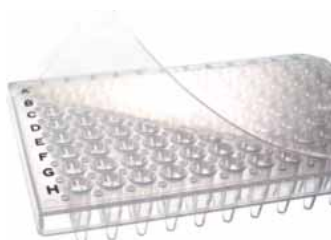
**PCR Plates 96 well, Rigid Frame**

BRAND GMBH + CO.KG

The rigid frame allows the use of very thin-walled wells from polypropylene. The uniform and thin wall thicknesses of the wells ensure rapid transfer of the temperature from the cycler to the sample, thus reducing cycle times. For qPCR, white plates are available that optimally reflect the fluorescence signals.

- Suitable for all standard thermal cyclers and fully automation compatible
- High stability and rigidity of the plate due to stable polycarbonate frame
- Rapid heat transfer through thin vessel walls
- DNase-, RNase-, and DNA-free
- Manufactured under controlled cleanroom conditions

Description	Capacity	PK	Cat. No.
	µl		
full skirt, yellow, wells transparent, low profile	150	50	4.687 154
full skirt, red, wells transparent, low profile	150	50	4.687 155
full skirt, white, wells white, low profile	150	50	4.687 158
semi skirt, transparent, wells transparent, standard profile	200	50	4.687 159
semi skirt, blue, wells transparent, standard profile	200	50	4.687 160
semi skirt, transparent, wells white, low profile, Roche®	150	50	4.687 161



**LLG-PCR adhesive film and foil**

LLG Labware

For use in cyclers with screw-down or clip-down lids. PCR Film: Clear film allows both the visual inspection of samples and fluorescence measurements. PCR Foil: Aluminium, easy to pierce, no residue of adhesive on the pipette tips. QPCR Foil: Adhesive seal optically clear, peelable, for QPCR and fluorescence applications.

Description	Temp. range °C	PK	Cat. No.
PCR film	-40 ... 102	100	6.313 398
PCR foil	-80 ... 104	100	6.313 400
QPCR foil	-70 ... 100	100	6.313 399



**Sealing Films, Self-adhesive**

BRAND GMBH + CO.KG

In case the microplates, PCR- and Deepwellplates need not only to be covered, but also securely sealed, self-adhesive sealing films are available. These film sheets can be easily applied on the plates and removed also without the use of expensive equipment. They are available in different versions and are especially well-suited for storage or cell- and tissue-culture.

Description	Application	Material	PK	Cat. No.
single film, gas-permeable, sterile	Cell- and tissue culture	Rayon	50	6.224 223
single film, DMSO-resistant	Storage, PCR	PP	100	9.408 983
single film	Automation	PE / PP	50	4.000 389
single film	Cold storage, storage	Aluminium	100	6.223 125
single film	ELISA, PCR	Polyester	100	9.409 386



**DNA AWAY™ for surface decontaminant**

Eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples. Degrades DNA more quickly and effectively than autoclaving. This product is a disinfectant containing biocides. Please inquire its availability and legal information. Thermo Elect.LED



Type	Capacity	Package	PK	Cat. No.
	ml			
MBP DNA Away®	250	Flask	1	6.228 401

**Cell Culture Flasks EasYFlask™, treated, PS/HDPE, sterile**

Cell culture flasks with Nunclon™Δ. Surface modifications are certified pyrogen-free and tested for monolayer formation and cloning efficiency with primary and immortalized cell lines. Sterile. Bottleneck at an angle. Sterile. Material flasks: Polystyrene Material caps: HDPE Thermo Elect.LED



Working volume	culture surface	Surface	Neck	Cover type	PK	Cat. No.
ml	cm²					
7	25	Nunclon™	Angled	Filter	200	9.390 331
7	25	Nunclon™	Angled	Vent/Close	200	9.390 330
25	75	Nunclon™	Angled	Filter	100	9.390 333
25	75	Nunclon™	Angled	Vent/Close	100	9.390 332
55	175	Nunclon™*	Angled	Filter	30	7.510 686
55	175	Nunclon™*	Angled	Vent/Close	30	4.008 552
70	225	Nunclon™*	Angled	Filter	30	6.236 539

\* Batch no. and cat. no. printed on each flask.

**Cell Culture Plates, treated, PS, sterile**

These standard surface treated cell culture plates for the cultivation of adherent cells exhibit a reduced evaporation due to raised well rims and uniform rings on the lids. Guangzhou JET Bio-Filtration

- Single position lid reduces the risks of cross-contaminations
- Wells are labeled with alphanumeric code for easy identification
- Sterilized by gamma irradiation
- Pyrogen-free



No. of wells	Working volume	Colour	Bottom shape wells	Coating (Cell culture)	Growth surface	PK	Cat. No.
					cm²		
4	0.59 ml	Transparent	Flat	TC	1.96	100	4.672 523
6	2.90 ml	Transparent	Flat	TC	9.60	100	6.267 166
12	1.14 ml	Transparent	Flat	TC	3.85	100	6.267 167
24	0.57 ml	Transparent	Flat	TC	1.93	100	6.267 168
48	0.29 ml	Transparent	Flat	TC	0.83	100	6.267 169
96	0.20 ml	Transparent	Flat	TC	0.33	100	6.267 170
96	0.20 ml	Transparent	U-shape	TC	0.58	100	6.267 171
384	0.10 ml	Transparent	Flat	TC	0.11	100	4.672 524

**Microbiological rapid tests Lovibond® Dipslides**

The Lovibond® Dipslides are designed to test liquids as well as surfaces. They are ideal for use in many applications including evaporative cooling towers, closed water circuits, cutting fluids, food testing, and many more. Tintometer GmbH

**Microbiological rapid tests Dual agar Lovibond® Dipslides**

These dual-sided Dipslides are available in a wide range of different media types.

Type	Description	PK	Cat. No.
TTC/MALT	Yeast, Moulds, Fungi, Total count	10	6.282 521
TTC/RBS	Yeast, Moulds, Fungi, Total count (Rose bengal)	10	6.282 522
TTC/MAC	Coliforms, Total count	10	6.282 523
TTC/E.COLI	E. coli/coliforms, Total count	10	6.282 524
PDM/MAC	Pseudomonas species, Coliforms	10	6.282 525
TTC/PDM	Pseudomonas species, Total count	10	6.282 526





**Culture Plates 3M™ Petrifilm™**

- Ready to use
- 90% less material volume
- Validated methods
- Time and energy saving
- Increased productivity and reliability
- Low operating costs
- Fast and reliable evaluation

3M Deutschland GmbH

Description	PK	Cat. No.
Total bacteria count aerobic bacteria	100	6.237 738
Total bacteria count aerobic bacteria	1000	6.236 670
Rapid test coliforms	50	6.245 052
Total bacteria count coliforms	50	6.269 820
Total bacteria count coliforms	1000	6.235 875
Bacteria count <i>E.coli</i>	50	6.269 819
Bacteria count <i>E.coli</i> and coliforms	50	6.257 512
Bacteria count Enterobacteriaceae	50	6.251 171
Bacteria count Enterobacteriaceae	1000	6.257 509
Bacteria count <i>S. aureus</i>	20	7.658 234
Bacteria count <i>S. aureus</i>	50	6.257 510
Bacteria count <i>S. aureus</i>	500	6.257 511
Rapid test Yeast and Fungi	50	6.282 104
Bacteria count Yeast and Fungi	100	7.657 837
Bacteria count Yeast and Fungi	1000	6.257 514



**LLG-Microbiological Media**

For numerous micro- and molecular biological applications. The safety data sheets of these products are available under [www.llg-labware.com](http://www.llg-labware.com).

LLG Labware

Description	Capacity	PK	Cat. No.
	<b>g</b>		
Luria Bertani (Miller), Powder	500	1	6.271 000
Luria Bertani (Lennox), Powder	500	1	6.271 010
Terrific Broth, Powder	500	1	6.271 007
2xYT Broth, Powder	500	1	6.271 001
Bact. Agar, Powder	500	1	6.271 003
YPD Broth, Powder	500	1	6.271 002
Yeast Extract, Powder	500	1	6.271 004
Tryptone, Powder	500	1	6.271 005
Casein Peptone, Powder	500	1	6.271 011
Tryptic Soya Agar (Caso-Agar), Powder	500	1	6.271 006

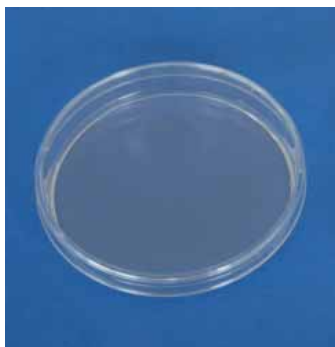
**LLG-Petri dishes, PS**

Made of high quality optical clear polystyrene. Produced under aseptic conditions in an ISO 6 cleanroom.

LLG Labware

- With a smooth surface for an optimal distribution of the transport medium
- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (Ø 90 mm), non-sterile (Ø 60 mm) or beta irradiated sterile versions (all sizes)
- Packed in sleeves á 10 dishes or 20 dishes (Ø 90 mm)
- For research and development only

Outer diam. mm	Description	Height approx. mm	PK	Cat. No.
60	with triple vents, non-sterile	14	1080	6.323 696
60	without vents, non-sterile	14	1080	6.323 697
90	with triple vents, aseptic	16	480	6.285 823
90	without vents, aseptic	16	480	6.285 824
60	with triple vents, sterile	14	1080	4.678 371
60	without vents, sterile	14	1080	4.678 372
90	with triple vents, sterile	16	480	6.285 816
90	without vents, sterile	16	480	6.285 817
150	with triple vents, sterile	19	140	4.680 144

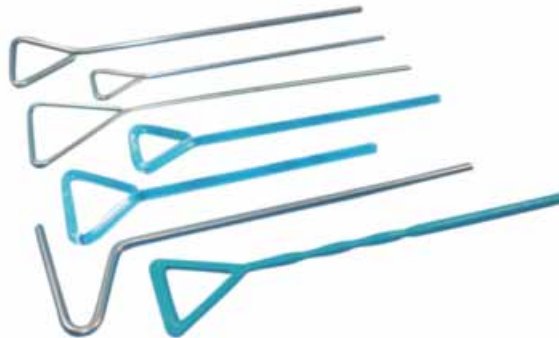


**LLG-Drigalski spatulas and Inoculation hooks**

For easy plating. For research and development only.

LLG Labware

Description	Ø	Width	Length	Material	PK	Cat. No.
	mm	mm	mm			
LLG-Drigalski spatulas	4	40.0	190	Stainless steel 18/10	1	9.197 490
LLG-Drigalski spatulas	3	24.5	150	Wironit, CrNi 18/12, straight	1	9.197 496
LLG-Drigalski spatulas	3	45.0	190	Wironit, CrNi 18/12, angular 10°	1	9.197 497
LLG-Drigalski spatulas	5	30.0	150	Borosilicate glass 3.3	1	9.197 499
LLG-Drigalski spatulas, individually packed	4	51.5	174	PS, sterile	100	6.251 768
LLG-Inoculation hook	5	40.5	145	Glass	1	9.520 206
LLG-Inoculation hook	4	57.0	185	Stainless steel	1	9.520 205



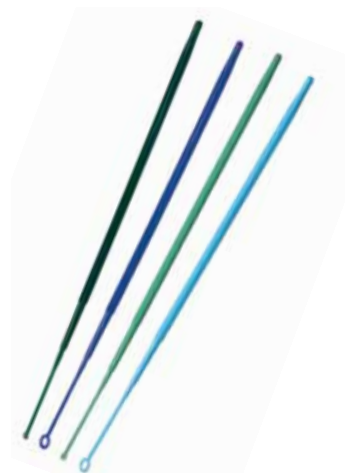
**LLG-Inoculation loops, PS, sterile**

LLG-Inoculation loops are ideal for picking up single isolated colonies for inoculation of culture media.

LLG Labware

- Ergonomic shape
- Sterile
- For research and development only

Length	Nominal capacity	Colour	Shape (Inoculating loops)	PK	Cat. No.
mm	µl				
195	1	Dark green	Loop, rigid	1000	4.691 889
195	10	Blue	Loop, rigid	1000	4.691 890
195	1	Light green	Loop, flexible	1000	4.691 891
195	10	Light blue	Loop, flexible	1000	4.691 892



**Inoculation loops "metal" and loop stands**

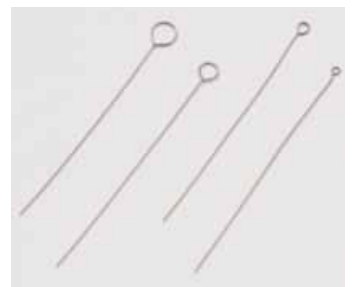
**Inoculation loops** made from stainless steel, special stainless steel wire or platinum-iridium wire (90/10). Can be heated to red heat. Length: 60 mm. Wire diameter: 0.5 mm.

schuett-biotec GmbH

**Inoculation loop holder** according to Kolle for 0.3 to 0.7 mm wire diameter. Stainless steel with handle. Fixed by union nut.

**Inoculation loop stand** robust and sturdy made of plastic (autoclavable). Accomodate up to 6 inoculation loop holders at any one time.

Type	Description	Loop diam. mm	PK	Cat. No.
P-I 1	Platinum-iridium	1	1	9.520 180
P-I 2	Platinum-iridium	2	1	9.520 181
P-I 3	Platinum-iridium	3	1	9.520 182
P-I 5	Platinum-iridium	5	1	9.520 184
E 1	Stainless steel, special wire	1	10	9.520 170
E 2	Stainless steel, special wire	2	10	9.520 171
E 3	Stainless steel, special wire	3	10	9.520 172
E 5	Stainless steel, special wire	5	10	9.520 174
W-1.5	Stainless steel	1.5	10	9.520 185
W-2.5	Stainless steel	2.5	10	9.520 186
W-4.0	Stainless steel	4.0	10	6.233 696
Inoculation loop holder	160 mm long		1	9.520 178
Inoculation loop holder	240 mm long		1	9.520 179
Inoculation loop stand R (round)	(Diam. x H) 80 x 50 mm		1	9.520 190
Inoculation loop stand L (long)	(L x W x H) 180 x 50 x 50 mm		1	9.520 191





**Disposable culture tubes, soda-lime glass, with screw cap**

From Soda-lime glass. With DIN thread and PP screw cap

DWK Life Sciences

Capacity ml	Outer diam. mm	Height mm	Wall thickness mm	DIN-Thread GL	PK	Cat. No.
6	12	100	1	14	100	7.021 547
12	16	100	1	18	100	7.021 548
22	16	160	1	18	100	7.021 549
32	18	180	1	18	100	7.021 550

**Aesculap® Safety scalpel**

- Reducing the risk of infections caused by cuts and stab wounds suffered during handover, take-over and disposal of scalpels
- Safe locking of the blade for disposal
- Designed according to the requirements of the German norm TRBA 250

B.Braun (Aesculap)

Type	PK	Cat. No.
10	10	9.160 480
11	10	7.656 993
15	10	9.160 483
21	10	9.160 489
22	10	9.160 490
23	10	9.160 491
24	10	9.160 492






### LLG-Short Thread Vials ND9, wide opening, SureStop™

The short thread vials ND9 SureStop™ are the best available on the market in terms of seal tightness and reliability. The vials have an additional stopper ring at the end of the thread which clearly marks the end point in the screwing-in process. This ensures that the tightness of the seal is independent of the touch or feel of the user screwing the stopper in. This ensures the lowest possible number of standard deviations and high reproducibility of analysis results.

LLG Labware

- Stopper ring as protection against over-tightening
- 1st hydrolytic class glass
- In clear and amber glass
- Wide opening requires matching micro-inserts

			
Nominal capacity (ml):	1.5	1.5	1.5
Dimension (ØxH):	11.6 x 32 mm	11.6 x 32 mm	11.6 x 32 mm
Colour:	Clear	Clear	Brown
With labelling field:	No	Yes	Yes
PK:	100	100	100
Cat. No.:	6.266 869	6.260 742	6.260 743





### LLG-Short Thread Vials ND9, wide opening

LLG Labware

				
Nominal capacity (ml):	1.5	1.5	1.5	1.5
Dimension (ØxH):	11.6 x 32 mm	11.6 x 32 mm	11.6 x 32 mm	11.6 x 32 mm
Colour:	Clear	Clear	Brown	Brown
With labelling field:	No	Yes	No	Yes
PK:	100	100	100	100
Cat. No.:	9.003 448	4.662 800	4.008 247	4.662 801

### Inserts for LLG-Short Thread Vials ND9/ND10 and LLG-Snap Ring Vials ND11, wide opening



LLG Labware

				
Nominal capacity (ml):	0.2	0.1	0.1	0.1
Dimension (ØxH):	6 x 31 mm	6 x 31 mm	6 x 31 mm	5.7 x 29 mm
Bottom shape:	Flat	Conical	Conical	-
Version:	-	Tip, 15 mm	Tip, 12 mm	Plastic spring
PK:	100	100	100	100
Cat. No.:	4.008 196	7.401 744	4.001 547	6.093 247

### LLG-Short Thread Vials economy ND9, wide opening
















Hydrolytical class 1, expansion 70.

LLG Labware

		
Nominal capacity (ml):	1.5	1.5
Dimension (ØxH):	11.6 x 32 mm	11.6 x 32 mm
Colour:	Clear	Brown
PK:	1000	1000
Cat. No.:	6.273 634	6.273 635

### LLG-PP Short Thread Seals ND9, ready assembled

LLG Labware

	Colour	Material septa	Colour septa	Thickness mm	Shore hardness	Slit	PK	Cat. No.
	Transparent	Natural rubber/TEF	Red-orange/transparent	1.00	60 A		100	6.266 872
	Blue	Natural rubber/TEF	Red-orange/transparent	1.00	60 A		100	6.266 883
	Transparent	Red Rubber/PTFE	Red/beige	1.00	45 A		100	4.008 229
	Blue	Red Rubber/PTFE	Red/transparent	1.00	45 A		100	4.008 228
	Blue	Red Rubber/PTFE	Red/beige	1.00	45 A		100	4.008 230
	Transparent	Silicone/PTFE	White/red	1.00	55 A		100	7.076 778
	Black	Silicone/PTFE	White/red	1.00	55 A		100	4.008 225
	Green	Silicone/PTFE	White/red	1.00	55 A		100	4.008 224
	Blue	Silicone/PTFE	White/red	1.00	55 A		100	4.008 227
	Transparent	Silicone/PTFE	White/blue	1.00	55 A	Slitted	100	7.200 809
	Blue	Silicone/PTFE	White/red	1.00	55 A	Slitted	100	4.001 521
	Blue	PTFE/Silicone/PTFE	Red/white/red	1.00	45 A		100	4.008 218
	Blue	PTFE	White	0.25	53 D		100	4.008 221
	Blue	PTFE	White	0.25	53 D		100	7.930 366
	Blue	Silicone/PTFE	White/red	1.00	55 A		100	6.291 638



### LLG-PP UltraBond Short Thread Seals ND9

Cap+Liner form an inseparable unit, so that the liner cannot be pushed into the vial even with a blunt needle.

LLG Labware

Shore hardness: 45 A

	Colour	Material septa	Colour septa	Thickness mm	Slit	PK	Cat. No.
	Blue	Red Rubber/PTFE	Red/beige	1.00		100	4.008 216
	Blue	Silicone/PTFE	Beige/white	1.30		100	4.008 214
	Blue	Silicone/PTFE	Beige/white	1.30	Slitted	100	4.008 215

### LLG-2in1 KITs with Short Thread Vials ND9 (wide opening)

2in1 KITs contain 100 vials (1.5 ml) and 100 closures in an orange PP-Box. As both components are always required at the same time, 2in1 KITs are a convenient way to obtain and store all required items for analysis. All advantages of the individual components (cleanroom packaging of the vials, recloseability of the packaging, etc.) remain unchanged. Any other combination of vial and seal as a 2in1 KIT available.



LLG Labware



Description	Cover type	PK	Cat. No.
clear	Short Thread Cap, blue, hole, Silicon white / PTFE red	100	9.003 560
clear	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	7.621 765
clear	Short Thread Cap, transparent, hole, Silicon white / PTFE red	100	9.003 561
clear, labelling field	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	9.003 562
clear, labelling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	7.970 892
amber, labelling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	6.266 871


### LLG Crimp Neck Vials ND11, small opening

LLG Labware

		
Nominal capacity (ml):	1.5	1.5
Dimension (ØxH):	11.6 x 32 mm	11.6 x 32 mm
Colour:	Clear	Brown
With labelling field:	No	No
PK:	100	100
Cat. No.:	7.085 511	7.089 998








### LLG Crimp Neck Vials ND11, wide opening

LLG Labware

				
Nominal capacity (ml):	1.5	1.5	1.5	1.5
Dimension (ØxH):	11.6 x 32 mm	11.6 x 32 mm	11.6 x 32 mm	11.6 x 32 mm
Colour:	Clear	Brown	Brown	Clear
With labelling field:	No	No	Yes	Yes
PK:	100	100	100	100
Cat. No.:	6.291 635	6.263 047	6.291 636	6.290 019








### LLG-Aluminium Crimp Seals ND11, ready assembled

LLG Labware

	Colour	Material septa	Colour septa	Thickness	Shore hardness	Septa type	PK	Cat. No.
	Silver	Natural rubber/TEF	Red-orange/transparent	1.00	60 A		100	9.003 441
	Silver	Natural rubber/Butyl/TEF	Red-orange/transparent	1.00	45 A		100	7.060 469
	Blue	Natural rubber/Butyl/TEF	Red-orange/transparent	1.00	45 A		100	6.900 233
	Silver	Silicone/PTFE	White/red	1.30	45 A		100	9.003 446
	Silver	PTFE	White	0.25	53 D	Virginal	100	4.001 559
	Silver	PTFE/Silicone/PTFE	Red/white/red	1.00	45 A		100	7.050 759
	Silver	Red Rubber/PTFE	Red/beige	1.00	45 A		100	6.291 637







### LLG-Headspace-Vials ND20 (5ml and 10ml)

LLG Labware

							
Nominal capacity (ml):	5.0	5.0	6.0	5.0	10.0	10.0	10.0
Dimension (ØxH):	20.0 x 38.0 mm	20.0 x 38.0 mm	22.0 x 38.2 mm	21.7 x 38.2 mm	20.0 x 54.5 mm	20.0 x 54.5 mm	22.5 x 46.0 mm
Colour:	Clear	Brown	Clear	Clear	Clear	Brown	Clear
Version:	DIN crimp neck, flat	DIN crimp neck, flat	HS crimp neck	HS crimp neck	DIN crimp neck, flat	DIN crimp neck, flat	DIN crimp neck, flat
For:	Varian	Varian	PerkinElmer	Metrohm	Varian	Varian	DANI, Agilent
PK:	100	100	100	100	100	100	100
Cat. No.:	9.003 425	7.060 457	7.052 186	4.008 285	9.003 426	7.080 947	7.050 285

### LLG-Headspace-Vials ND20 (20ml and 50 ml)







LLG Labware

						
Nominal capacity (ml):	20.0	20.0	20.0	20.0	20.0	50.0
Dimension (ØxH):	23.25 x 75.5 mm	22.5 x 75.5 mm	22.5 x 75.5 mm	23.0 x 75.5 mm	23.0 x 75.5 mm	31.0 x 101.0 mm
Colour:	Clear	Clear	Clear	Clear	Clear	Clear
Version:	DIN crimp neck, flat	DIN crimp neck, flat	DIN crimp neck, flat	HS crimp neck	HS crimp neck	DIN crimp neck, flat
With labelling field:	No	No	No	No	Yes	No
For:	-	DANI, Agilent	CTC, Varian	PerkinElmer	PerkinElmer	-
PK:	100	100	100	100	100	100
Cat. No.:	7.401 840	9.003 452	9.003 453	7.060 463	4.008 281	7.060 459



### LLG-Crimp Seals ND20, Aluminium, ready assembled

LLG Labware

	Colour	Material septa	Colour septa	Thickness	Shore hardness	Septa type	PK	Cat. No.
	Silver	Butyl/PTFE	Red/grey	3.00	50 A		100	9.003 454
	Silver	Butyl/PTFE	Grey/grey	3.00	50 A		100	4.001 549
	Silver	Butyl/PTFE		3.00	50 A	Pharma-Fix-Septa	100	9.003 430
	Silver	Silicone/PTFE	Blue transparent/transparent	3.00	45 A		100	9.003 434
	Silver						100	7.060 477
	Silver	Silicone/PTFE	White/beige	3.20	45 A		100	9.003 460

### Crimp caps ND20, aluminium, magnetic

La-Pha-Pack GmbH






Thickness: 3.00 mm  
Shore hardness: 55 A



Colour	Int. bore Ø	Material septa	Colour septa	PK	Cat. No.
	mm				
Gold	8.0	Butyl	Dark grey	1000	6.240 960

### LLG-Headspace Seals ND20 (Pressure Release Caps), Aluminium, ready assembled



LLG Labware

	Caps	Septa	Thickness	Hardness	PK	Cat. No.
	silver, centre hole	Butyl grey / PTFE grey	3.0	50° shore A	100	4.001 557
	silver, centre hole	Pharma-Fix- Septa Butyl/PTFE	3.0	50° shore A	100	4.008 276
	silver, centre hole	Silicone blue transp. / PTFE transparent	3.0	45° shore A	100	7.050 286
	silver, centre hole	Silicone white / PTFE beige	3.2	45° shore A	100	9.003 456
	silver, centre hole	no liner			100	4.008 271

### LLG-Steel Crimp Seals ND20, ready assembled, magnetic

LLG Labware

Material septa:	Silicone/PTFE
Colour septa:	Blue transparent/transparent
Thickness:	3.00 mm
Shore hardness:	45 A

	Colour	Int. bore Ø	PK	Cat. No.
		mm		
	Gold	8.0	100	7.850 010
	Gold	8.0	100	7.625 012



### LLG-Crimp Seals ND20 (Center Tead Off Caps), Aluminium, unassembled



LLG Labware

Colour	Material septa	Colour septa	Thickness	Shore hardness	PK	Cat. No.
			mm			
Silver	Butyl	Grey	3.00	50 A	100	6.270 720
Silver					100	6.270 721

### LLG-Crimp Seals ND20 (Complete Tear Off Caps), Aluminium, unassembled

LLG Labware

Thickness:	3.00 mm
Shore hardness:	37 A

	Colour	Material septa	Colour septa	PK	Cat. No.
	Silver	Butyl	Grey	100	7.060 479
	Silver			100	7.056 751



### LLG-Crimp Neck Vial ND20 for the doping control

100 mL crimp neck vial, 51.6 x 94.5mm, clear, flat bottom, flat DIN crimp neck.

LLG Labware

Nominal capacity	Dimension (ØxH)	Colour	Version	PK	Cat. No.
ml					
100	51.6 x 94.5 mm	Clear	DIN crimp neck, flat	88	6.231 858

### LLG-Crimping Tools ND8/ND11/ND13/ND20

LLG Labware

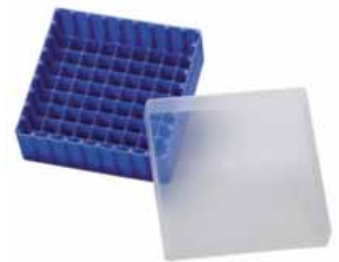


Description	Size	PK	Cat. No.
Manual crimper, height adjustable, for 11 mm aluminium crimp caps	ND11	1	9.003 471
Manual crimper, height adjustable, for 20mm aluminium crimp caps	ND20	1	9.003 475
Manual decapper for 20mm aluminium crimp caps	ND20	1	9.003 369

## LLG-Storage Boxes, PP

\* With alphanumeric coding on the edge and the bottom of each cavity.  
Suitable for storage in the fridge. Temperature stable between -80 °C and 100 °C.

LLG Labware



For	Colour	Bottle size	Dimensions (L x W x H)	Array	PK	Cat. No.
		ml	mm			
ND8, 9, 10, 11	blue	1,5 / 2,0	130 x 130 x 45*	9 x 9	1	9.405 750
ND8, 9, 10, 11	orange	1,5 / 2,0	130 x 130 x 45*	9 x 9	1	9.405 751
ND8, 9, 10, 11	yellow	1,5 / 2,0	130 x 130 x 45*	9 x 9	1	9.405 753
ND8, 9, 10, 11	green	1,5 / 2,0	130 x 130 x 45*	9 x 9	1	9.405 754
ND13	red	4,0	130 x 130 x 52*	7 x 7	1	9.405 756
ND20	blue	5 / 10 / 20	130 x 130 x 102	5 x 5	1	4.001 528
ND8, 9, 10, 11	neon-green	1,5 / 2,0	67 x 67	4 x 4	1	9.405 760
ND8, 9, 10, 11	neon-pink	1,5 / 2,0	67 x 67	4 x 4	1	9.405 761
ND8, 9, 10, 11	transparent	1,5 / 2,0	67 x 67	4 x 4	1	9.405 765

## NMR tubes, diameter 3 and 5 mm borosilicate glass 3.3, standard

The NMR tubes are produced with high precision. They are suitable for routine measurements, high-throughput measurements or NMR systems with autosampler at measurement frequencies up to 600 MHz. The tubes are manufactured from borosilicate glass 3.3 which is conform to USP Type I and ASTM E438, Type I, Class A. Please order closing caps separately.

Hilgenberg GmbH

Outer diam. mm	Int. diam. mm	Length mm	Wall thickness mm	PK	Cat. No.
2.95 ± 0.03	2.36 ± 0.03	178	0.29	50	6.281 792
2.95 ± 0.03	2.36 ± 0.03	203	0.29	50	6.281 793
4.95 ± 0.05	4.19 ± 0.05	178	0.38	100	9.400 310
4.95 ± 0.05	4.19 ± 0.05	203	0.38	100	9.400 311



## NMR tubes, 5mm, DURAN®, three accuracy classes

NMR tubes are available, according to requirement, in three accuracy classes. The correct tube can be selected depending on magnetic field and spin. The tubes are noteworthy for their close tolerances and accuracy, especially to their straightness, wall thickness and wall thickness distribution. Consequently, quick and accurate test results are achievable.

DWK Life Sciences

**Type Economic:** The disposable for economical use in fully automatic sample dispensers or where high throughputs are involved.

- Applicable until 300 MHz

**Type Professional:** For professional use in industry and research in the medium and high resolution area of NMR spectroscopy.

- Applicable until 400 MHz

**Type Scientific:** For scientific use with high value samples and optimum substance exploitation in the highest resolution range of NMR spectroscopy.

- Applicable until 500 MHz

Please order closing caps separately.

Type	Outer diam. mm	Int. diam. mm	Length mm	PK	Cat. No.
Economic	4.95 +/- 0.05	4.20 +/- 0.05	178	1	7.083 596
Professional	4.97 +/- 0.025	4.20 +/- 0.025	178	1	7.083 595
Scientific	4.97 +/- 0.013	4.20 +/- 0.025	178	1	7.084 720



## NMR brushes

For cleaning NMR tubes.

DWK Life Sciences

Length mm	PK	Cat. No.
250	5	4.669 337





### NMR Tube Rack, PP

*Bel-Art Products*


Polypropylene rack with carrying handles features an upper deck with holes and a lower deck support for tube ends. Stackable. For 72 (6 x 12) tubes with 3 or 5mm diameter. Autoclavable.

Type	Dimensions (W x D x H) mm	PK	Cat. No.
NMR Tube Rack	210 x 110 x 220	1	9.301 065



### LLG-Glass-Syringes, borosilicate glass

With brown graduations. Sterilisable up to 134 °C.

*LLG Labware*

Capacity ml	Material Cone	Nozzle type	PK	Cat. No.
1	Glass	Luer-Slip	1	6.272 088
2	Glass	Luer-Slip	1	6.272 089
5	Glass	Luer-Slip	1	6.272 090
10	Glass	Luer-Slip	1	6.272 091
20	Glass	Luer-Slip	1	6.272 092
50	Glass	Luer-Slip	1	6.272 093
1	Metal	Luer-Lock	1	6.272 094
2	Metal	Luer-Lock	1	6.272 095
5	Metal	Luer-Lock	1	6.272 096
10	Metal	Luer-Lock	1	6.272 097
20	Metal	Luer-Lock	1	6.272 098
50	Metal	Luer-Lock	1	6.272 099



### Microlitre syringes, 700 series, with cemented needle (N)

With cemented needle (N, NR). NR stands for syringes with Rheodyne specified needles. Plungers are individually fitted, therefore cannot be interchanged and are not available as replacement parts. Needle length 51 mm.

*Hamilton Central*

Type	Capacity µl	Gauge	Point style	PK	Cat. No.
75 N	5	26s	2 (GC)	1	9.221 001
701 N	10	26s	2 (GC)	1	9.221 002
701 N	10	26s	2 (GC)	6	9.221 010
702 N	25	22s	2 (GC)	1	9.221 003
705 N	50	22s	2 (GC)	1	9.221 004
710 N	100	22s	2 (GC)	1	9.221 005
725 N	250	22s	2 (GC)	1	9.221 006
750 N	500	22	2 (GC)	1	9.221 007
75 N	5	26s	3 (HPLC)	1	9.221 011
701 N	10	26s	3 (HPLC)	1	9.221 012
702 NR	25	22s	3 (HPLC)	1	9.221 013
705 NR	50	22s	3 (HPLC)	1	9.221 014
710 NR	100	22s	3 (HPLC)	1	9.221 015
725 NR	250	22	3 (HPLC)	1	9.221 016
750 N	500	22	3 (HPLC)	1	6.055 335
701 N	10	26s	5	1	6.800 518
750 N	500	22	5	1	6.801 651

## LLG-Disposable syringes, 3-parts, PP, non-sterile, bulk



LLG Labware

- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Smooth flow, tight, high transparency barrel
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Defined safety stop to avoid accidental pull-out of plunger
- Suitable for all syringe filters with Luer connection
- Non-sterile, bulk packed in box of 500
- Luer-Lock according to DIN EN 1707
- Luer-Slip according to DIN EN 20594-1



Capacity ml	Nozzle type	PK	Cat. No.
2	Luer-Slip	500	6.267 267
5	Luer-Slip	500	6.267 268
10	Luer-Slip	500	6.267 269
20	Luer-Slip	500	6.267 270
2	Luer-Lock	500	6.286 616
5	Luer-Lock	500	6.286 617
10	Luer-Lock	500	6.286 618
20	Luer-Lock	500	6.286 619

## -Syringes BD Emerald™, disposable, 3 pieces, PP/TPE, sterile

Syringe barrel and plunger made of polypropylene (PP), double sealing ring made of green latex-free elastomer (TPE). All sizes with Luer concentric nozzle.

Becton Dickinson

- EO sterilized, single packs
- Latex and PVC-free
- Plunger lubricant silicone oil
- Plunger stop by retaining ring
- Ribbed thumb rest surface



Volume ml	Grad. ml	PK	Cat. No.
2	0.1	100	6.280 280
5	0.2	100	6.280 281
10	0.2	100	7.971 499

## Disposable syringes, 3-piece, PP, sterile

Three-part syringe with cylinder, plunger and sealing ring.

Becton Dickinson

- Cylinder, PP
- Plunger, PP
- Lubricant silicone oil
- Latex free
- PVC free
- Sterile
- Individually packed



Volume ml	Nozzle type	Grad. ml	Description	PK	Cat. No.
20	eccentric	1.0	with Luer nozzle	120	9.950 300
30	eccentric	1.0	with Luer nozzle	60	9.410 431
50/60	eccentric	1.0	with Luer nozzle	60	9.950 301
3	centric	0.1	with BD Luer-Lok™ nozzle	200	6.238 175
5	centric	0.2	with BD Luer-Lok™ nozzle	125	6.050 095
10	centric	0.2	with BD Luer-Lok™ nozzle	100	6.050 096
20	centric	1.0	with BD Luer-Lok™ nozzle	120	6.050 097
30	centric	1.0	with BD Luer-Lok™ nozzle	60	6.051 537
50/60	centric	1.0	with BD Luer-Lok™ nozzle	60	6.050 099

## Disposable syringes, 3-piece, PP, sterile, with catheter hub

Three-part syringe with cylinder, plunger and sealing ring.

Becton Dickinson

- Cylinder, PP
- Plunger, PP
- Lubricant silicone oil
- Latex free
- PVC free
- EO sterilised
- Individually packed



Volume ml	Nozzle type	Grad. ml	Description	PK	Cat. No.
50/60	centric	1	-	60	6.305 235
100	centric	2	with Luer adapter	50	6.287 774



### Disposable Syringes Omnifix® Solo, 3-piece

- Material: Polypropylene, Plunger backstop: Polyisoprene
- Plunger backstop with smooth double sealing ring for slow aspiration and injection of small sample quantities
- Highly transparent barrel with black graduations (in ml) for ideal readability, permanent marking
- Safe plunger backstop for easy aspiration to the maximum volume
- Inside siliconized
- Luer Slip to put on the needle, centric or eccentric or Luer Lock conus, centric
- Latex- and PVC-free
- Sterile, single packed
- Manufactured according to EN ISO 7886-1

B. Braun Deutschland

Capacity ml	Nozzle type	Grad. ml	PK	Cat. No.
3	Luer slip, centric	0.1	100	6.238 513
5	Luer slip, eccentric	0.2	100	6.301 853
10	Luer slip, eccentric	0.5	100	7.079 506
20	Luer slip, eccentric	1.0	100	6.084 306
30	Luer slip, eccentric	1.0	100	6.303 643
50	Luer slip, eccentric	1.0	100	4.665 914
3	Luer lock, centric	0.1	100	6.238 514
5	Luer lock, centric	0.2	100	6.081 232
10	Luer lock, centric	0.5	100	6.085 753
20	Luer lock, centric	1.0	100	6.083 393
30	Luer lock, centric	1.0	100	6.300 903
50	Luer lock, centric	1.0	100	4.665 943



### Disposable Syringes HSW NORM-JECT®, 2-part, sterile

Disposable syringes HSW NORM-JECT® with PP barrel, and PE piston. Luer or Luer-Lock nozzle.

B. Braun Deutschland

- Smooth flow, tight, high transparency barrel
- No rubber, styrene or DEHP, latex- and silicone-oil-free
- Sterile, individually blister strip packed
- Defined position of the plunger at volume "0" to feel when plunger is completely inserted
- According to ISO 7886-1
- Defined safety stop to avoid accidental pull-out of plunger

Capacity ml	Nozzle type	PK	Cat. No.
2	Luer-Slip	100	4.665 978
5	Luer-Slip	100	4.665 979
10	Luer-Slip	100	4.665 986
20	Luer-Slip	100	4.665 952
10	Luer-Lock	100	4.665 916



### Disposable Syringes HSW HENKE-JECT®, 2-part, non-sterile

Disposable syringes with PP barrel, and PE piston. Luer-Slip or Luer-Lock nozzle.

Henke-Sass, Wolf

- Wipe-resistant scale
- Transparent cylinder
- Pyrogen-free, non-toxic and PVC-free

Volume ml	Nozzle type	PK	Cat. No.
1	Luer-Slip	7000	7.660 063
5	Luer-Slip	3600	7.659 731
10	Luer-Slip	2000	4.668 934
20	Luer-Slip	1000	7.661 579
2	Luer-Lock	6300	4.668 928
5	Luer-Lock	3600	6.287 528
10	Luer-Lock	2000	4.668 929
20	Luer-Lock	1000	4.668 930
1	Luer-Slip	100	4.669 386
5	Luer-Slip	100	4.669 387
2	Luer-Slip	100	4.669 388
10	Luer-Slip	100	4.669 389
20	Luer-Slip	100	4.669 390
2	Luer-Lock	100	4.669 393
5	Luer-Lock	100	4.669 394
10	Luer-Lock	100	4.669 395
20	Luer-Lock	100	4.669 396

## Syringes BD Discardit™ II, disposable, 2-piece, PP/PE, sterile

- Clear barrel for perfect visualisation of syringe contents.
- 2-piece syringes with Luer-Tip
  - Smooth plunger movement, reduced sliding force
  - Retaining ring: prevents accidental plunger rod withdrawal
  - Leak-tight: Tested in compliance with ISO 7886-1
  - Scale marking: accurate graduation suited to user's needs
  - Design of finger grip flanges ensure stability and comfort during injection
  - Ergonomically designed plunger for single-handed operation
  - Barrel material: Polypropylene
  - Plunger material: Polyethylene
  - Plunger lubricant: Oleamide
  - Colour-coded packing units
  - Sterilization method: Ethylene oxide
  - Silicone oil-free
  - Sterile single packing, single use, latex-free, PVC-free
- For pressure applications we recommend three-part syringes.

Becton Dickinson



Capacity ml	Nozzle type	Grad. ml	PK	Cat. No.
2	concentric	0.1	100	6.052 153
5	eccentric	0.2	100	7.619 784
10	eccentric	0.5	100	9.410 403
20	eccentric	1.0	80	6.052 157

## Disposable Syringes Injekt® Solo, 2-piece

- Graduation in ml for volume dosing, scale is extended over the nominal volume
- Material: Barrel: Polypropylene, Plunger: Polyethylene
- Highly transparent barrel with green plunger and black graduations for ideal readability, permanent marking
- Safe plunger backstop for easy pulling up to the maximum volume
- Silicone oil-free
- Luer Slip to put on the needle, centric or eccentric or Luer Lock conus, centric
- Latex- and PVC-free
- Sterile, single packed or non-sterile bulk packing
- Manufactured according to EN ISO 7886-1

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Capacity ml	Nozzle type	Grad. ml	Description	PK	Cat. No.
2	Luer slip, centric	0.1	sterile, single packed	100	6.800 110
5	Luer slip, eccentric	0.2	sterile, single packed	100	6.302 682
10	Luer slip, eccentric	0.5	sterile, single packed	100	6.078 449
20	Luer slip, eccentric	1.0	sterile, single packed	100	6.070 497
2	Luer lock, centric	0.1	sterile, single packed	100	6.307 167
5	Luer lock, centric	0.2	sterile, single packed	100	7.630 593
10	Luer lock, centric	0.5	sterile, single packed	100	6.307 168
20	Luer lock, centric	1.0	sterile, single packed	100	6.702 740
2	Luer slip, centric	0.1	non-sterile, bulk	1000	6.085 876
5	Luer slip, eccentric	0.2	non-sterile, bulk	1000	6.087 416
10	Luer slip, eccentric	0.5	non-sterile, bulk	1000	6.088 819
20	Luer slip, eccentric	1.0	non-sterile, bulk	1000	6.085 795
10	Luer slip, eccentric	0.5	non-sterile, bulk	2000	4.666 000
20	Luer slip, eccentric	1.0	non-sterile, bulk	100	4.666 001

## Fine Dosage Syringes Omnifix®-F, 3-piece

- Made of polypropylene/polystyrol, highly transparent barrel
- Permanent marking, ideal readability
- Safe plunger backstop
- Easy aspiration up to maximum volume
- Plunger stopper with double sealing ring for slow aspiration and injection: made of natural latex free synthetic material
- Minimal residual volume
- Latex-free/PVC-free
- Single sterile-packed

B. Braun Deutschland

**Type Solo** without needle, Luer cone according to EN ISO 7886-1.  
**Type Duo** with bi-packed needle, Luer cone according to EN ISO 7886-1, EN ISO 7864 and DIN 13097.

Type	Capacity ml	Grad. ml	Gauge	PK	Cat. No.
Omnifix®-F Solo	1	0.01	-	100	6.800 244
Omnifix®-F Duo	1	0.01	25 G   0.5 x 16 mm	100	6.322 844



6.322 844



6.265 337

### Fine Dosage Syringes Injekt®-F, 2-piece

- Made of polypropylene/polyethylene
- Green plunger, highly transparent barrel,
- High contrast black graduation, permanent marking, ideal readability
- Displacement spike: Reduces residual volume and minimizes unnecessary loss of medicine
- Safe plunger backstop, easy aspiration up to maximum volume
- Silicone oil-free
- Centric Luer cone
- Latex-free/PVC-free
- Single sterile-packed

*B. Braun Deutschland*
**Type Solo** without needle, Luer cone according to EN ISO 7886-1.

**Type Duo** with bi-packed needle, Luer cone according to EN ISO 7886-1, EN ISO 7864 and DIN 13097.

Type	Capacity	Grad.	Gauge	PK	Cat. No.
	ml	ml			
Injekt®-F Solo	1	0.01	-	100	7.611 629
Injekt®-F Duo	1	0.01	25 G   0.5 x 16 mm	100	6.265 337



### Disposable needles, PP/Stainless steel, sterile

With Luer push-on fitting for use with disposable syringes.  
Supplied sterile in boxes of 100. Colour-coded.

*Becton Dickinson*

Ø	Length	Gauge	Colour	PK	Cat. No.
mm	mm				
2	40	16 x 1 1/2"	white	100	6.263 033
1	40	18 x 1 1/2"	pink	100	6.324 528
1	50	18 x 2"	pink	100	4.688 123
1	25	21 x 1"	green	100	6.323 877
1	40	21 x 1 1/2"***	green	100	9.950 305
1	50	21 x 2"	green	100	7.910 250
1	25	23 x 1"	blue	100	9.950 306
1	16	25 x 5/8"	orange	100	9.950 307
1	25	25 x 1"	orange	100	9.410 435
0	13	27 x 1/2"	gray	100	7.671 399
0	13	30 x 1/2"	yellow	100	6.700 588

\* is a thin wall needle with a short bevel. \*\*\*are intravenous thin wall needles.



### Disposable needles Sterican®, PP/Stainless steel

- Thin-walled needles
- Made of stainless, chromium-nickel steel
- Smooth surface with light silicone coating
- Transparent Luer-Lock plastic hub
- Made of Polypropylene (needle hub)
- Color-coded hub conforms to ISO 6009
- Box of 100 pieces

*B. Braun Deutschland*

Gauge	Ø	Length	Colour	PK	Cat. No.
	mm	mm			
22 x 2"	0.7	50	black	100	6.231 319
21 x 2"	0.8	50	green	100	6.079 176
19 x 2"	1.1	50	ivory	100	6.070 029
18 x 2"	1.2	50	pink	100	6.070 289
20 x 2"	0.9	50	yellow	100	6.200 571
20 x 2 3/4"	0.9	70	yellow	100	6.071 720
21 x 3 1/8"	0.8	80	green	100	6.070 663



### Disposable needles Sterican® for neural therapy

- Thin-walled needles, made of stainless, chromium-nickel steel, with smooth surface with light silicone coating
- Minimal pain upon puncture
- Transparent Luer-Lock plastic hub, made of Polypropylene (needle hub), color-coded hub conforms to ISO 6009

*B. Braun Deutschland*

Gauge	Ø	Length	Colour	PK	Cat. No.
	mm	mm			
21 x 4 3/4"	0.8	120	green	100	6.200 419
23 x 2 3/8"	0.6	60	blue	100	6.053 289
23 x 3 1/8"	0.6	80	blue	100	7.200 183



### Single-use hypodermic needles, Sterican®

- In accordance with ISO 7864 and DIN 13097
- Thin-walled needles
- Made of stainless, chromium-nickel steel
- Smooth surface with light silicone coating
- Minimal pain upon puncture
- Transparent Luer-Lock plastic hub
- Made of Polypropylene (needle hub)
- Box of 100 pieces

B. Braun Deutschland



Gauge	Ø	Colour	Length	PK	Cat. No.
	mm		mm		
20 x 1 1/2"	0.90	yellow	40	100	6.080 870
21 x 1 1/2"	0.80	green	40	100	6.076 221
22 x 1 1/4"	0.70	black	30	100	6.076 115
23 x 1 1/4"	0.60	blue	30	100	7.079 505
23 x 1"	0.60	blue	25	100	6.202 748
24 x 1"	0.55	purple	25	100	6.070 095
26 x 1"	0.45	brown	25	100	6.078 182
27 x 3/4"	0.40	grey	20	100	6.071 758
20 x 1"	0.90	yellow	25	100	6.234 675
21 x 1"	0.80	green	25	100	7.629 981

### Single-Use Needles Sterican®, chromium-nickel steel, for special applications

- Thin-walled needles
- Made of stainless, chromium-nickel steel
- Smooth surface with light silicone coating
- Transparent Luer-Lock plastic hub made of Polypropylene
- Colour-coded hub conforms to ISO 6009
- Sterile

B. Braun Deutschland



6.074 138

Description	Colour	Ø	Length	Gauge	PK	Cat. No.
		mm	mm			
Heparin, tuberculin	orange	0.5	16	G 25 x 5/8"	100	7.510 644
Blood sampling	black	0.7	40	G 22 x 1 1/2"	100	6.317 929
Withdrawal and flushing, blunt	green	0.8	22	G 21 x 7/8"	100	6.074 138
Blood sampling	ivory	1.1	30	G 19 x 1 1/4"	100	6.302 114
Blood sampling	ivory	1.1	40	G 19 x 1 1/2"	100	6.510 862
Blood sampling, phlebotomy	pink	1.2	40	G 18 x 1 1/2"	100	6.070 031
Raising needle Mix, half blunt	red	1.2	40	G 18 x 1 1/2"	100	6.284 218
Raising needle Mix, blunt	pink	1.2	40	G 18 x 1 1/2"	100	7.656 916



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