VWR®
We Enable Science

VWR® GLASSWARE

- Beakers and bottles
- Dishes and vials
- Flasks
- Filtration/separation products
- Desiccators
- Pasteur pipettes
- Test tubes
- Weighing
- Volumetric glassware and titration

designed for
every day use

VWR GLASSWARE

VWR glassware is produced from high quality borosilicate 3.3 glass (table 1), according to the international standard DIN ISO 3585. This glass is ideal for almost all laboratory applications as it has excellent chemical, high temperature and thermal shock resistance.

As VWR glassware has a high degree of chemical resistance to water, acids, saline solutions, alkaline solutions and organic substances, only hydrofluoric acid, strong alkaline solutions at higher temperature or hot, concentrated phosphoric acid can cause surface removal of the glass.

Due to its low coefficient of thermal expansion VWR borosilicate 3.3 glassware can withstand temperatures up to 500 °C and is extremely resistant against rapid temperature changes. The annealing point of this borosilicate 3.3 glass is 560 °C.

Substance	% by weight
SiO_2	80
B_2O_3	13
Na_2O_3	4
Al_2O_3	2
K_2O	1

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VWR® calibrated glassware - Page 25

VWR volumetric glassware is produced from glass tubing of the same high quality borosilicate 3.3 benefits of chemical and thermal resistance. This production method also means that the glassware has a very even wall thickness leading to less breakage. VWR volumetric glassware is conformity certified and is available in different accuracy classes:

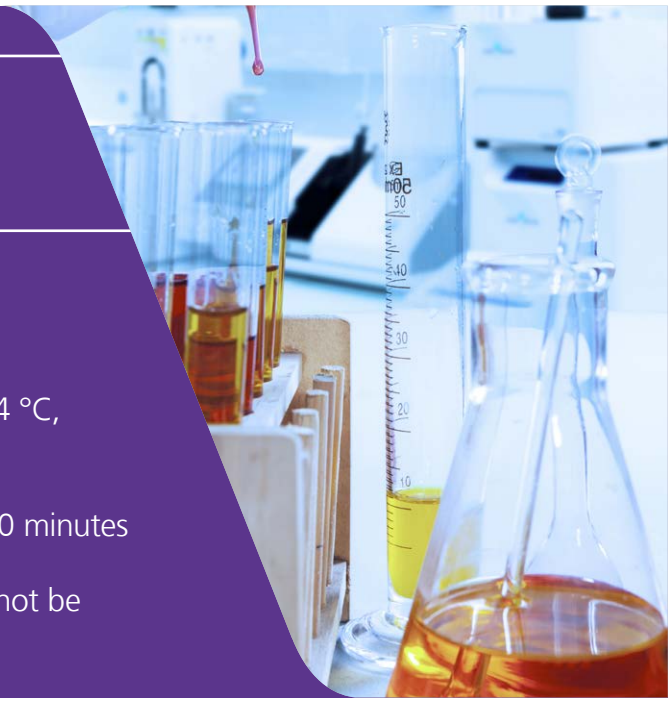
Class A and class AS: Highest accuracy class means these measuring instruments are calibrated within very tight tolerances. The tolerances for both classes are identical but class AS pipettes and burettes are designed to permit a faster outflow than class A products with a waiting time of 15 seconds. Both class A and AS products are delivered with batch certificate that shows the mean value of the tested production batch. They **cannot** be delivered with single certificate.

Class B: The accuracy of class B measuring instruments is approximately half the accuracy of class A/AS measuring instruments. These products are ideal for educational use. Class B products are **not** delivered with batch certificate.

VWR Collection volumetric glassware is either calibrated to contain ('In', measuring flasks and measuring cylinders) or to deliver ('Ex', 'TD', pipettes and burettes). All products are calibrated at a room temperature of 20 °C.

CARE FOR YOUR VWR GLASSWARE

- Cleaning: Can be cleaned with common detergents in a dishwasher
- Sterilisation: Can be steam-sterilised at max. 134 °C, 2 bar for 20 minutes
- Autoclaving: Can be autoclaved at 134 °C for 20 minutes
- Freezing: Down to -40 °C, glass vessels should not be more than ¾ filled with liquid



THESE SYMBOLS INDICATE IMPORTANT PRODUCT FEATURES:

SYMBOLS

Warranty

Autoclavable

Sustainable

Beakers, low form

Borosilicate 3.3 glass, with spout.

- Very good chemical resistance
- High temperature resistance
- Autoclavable
- Volume graduations and labelling area.

The economical alternative for a wide range of laboratory applications.

DIN 12331, ISO 3819

Capacity (ml)	Height (mm)	O.D. (mm)	Pk	Cat. No.
25	50	34	10	**213-1120**
50	60	42	10	**213-1121**
100	70	50	10	**213-1122**
150	80	60	10	**213-1123**
250	95	70	10	**213-1124**
400	110	80	10	**213-1125**
600	125	90	10	**213-1126**
800	135	100	10	**213-1127**
1000	145	105	10	**213-1128**
2000	185	130	4	**213-0469**
3000	210	150	1	**213-1130**
5000	270	170	1	**213-1131**
10000	350	217	1	**213-1132**

Beakers, tall form

Borosilicate 3.3 glass, with spout.

- Very good chemical resistance
- High temperature resistance
- Autoclavable
- Volume graduations and labelling area.

The economical alternative for a wide range of laboratory applications.

DIN 12331, ISO 3819

Capacity (ml)	Height (mm)	O.D. (mm)	Pk	Cat. No.
50	70	38	10	**213-1169**
100	80	48	10	**213-1170**
150	95	54	10	**213-1171**
250	120	60	10	**213-1172**
400	130	70	10	**213-1173**
600	150	80	10	**213-1174**
800	175	90	10	**213-1175**
1000	180	95	10	**213-1176**
2000	240	135	6	**213-0470**
3000	280	135	1	**213-1178**

Beakers, low form, heavy duty

Borosilicate 3.3 glass, with spout.

- Resistant against chemicals and thermal shock
- Durable matt finish marking area and white graduated scale
- Spout designed for optimum performance

Heavy duty beakers have better mechanical stability than the standard products due to thicker walls. The reinforced rims increase shock resistance and reduce the risk of breakage. Due to the increased wall thickness resistance against rapid temperature changes is not as good that of the standard product, therefore, slow, uniform heating is recommended.

Capacity (ml)	Height (mm)	O.D. (mm)	Pk	Cat. No.
50	60	42	10	**213-0462**
100	70	50	10	**213-0476**
150	80	60	10	**213-0477**
250	95	70	10	**213-0478**
400	110	80	10	**213-0479**
600	125	90	8	**213-0480**
1000	145	105	6	**213-0481**

Laboratory bottles, round

Borosilicate 3.3 glass, with PP screw cap and pouring ring.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of laboratory applications. Round, with graduations, DIN GL 32 or GL45 thread.

ISO 4796

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
100	GL 45	56	100	10	**215-1592**
250	GL 45	70	138	10	**215-1593**
500	GL 45	86	176	10	**215-1594**
1000	GL 45	101	225	10	**215-1595**
2000	GL 45	136	260	1	**215-1596**
5000	GL 45	181	330	1	**215-0057**
10000	GL 45	227	410	1	**215-0058**
20000	GL 45	288	505	1	**215-0059**

Laboratory bottles, round, amber

Amber borosilicate 3.3 glass with PP screw cap and pouring ring.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of laboratory applications. Round, with graduations, DIN GL 45 thread, pouring ring and blue PP screw cap. Amber coloured to protect light-sensitive materials.

ISO 4796

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
100	GL 45	56	100	1	**215-2325**
250	GL 45	70	138	1	**215-2326**
500	GL 45	86	176	1	**215-2327**
1000	GL 45	101	225	1	**215-2328**
2000	GL 45	136	260	1	**215-2329**
5000	GL 45	182	300	1	**215-2330**
10000	GL 45	227	410	1	**215-2337**
20000	GL 45	288	505	1	**215-2338**

Laboratory bottles, wide neck

Borosilicate 3.3 glass, clear or amber with screw cap and pouring ring.

- Very good chemical resistance, high temperature resistance
- 80 mm opening allows easy cleaning
- Minimal thermal expansion giving relatively high resistance to temperature changes

The large opening can accommodate even large volume funnels giving easy access to scoops or spatulas. Amber to protect light-sensitive materials.

Capacity (ml)	W×D×H (mm)	Pk	Cat. No.
Clear glass			
500	94×94×139	1	**215-3743**
1000	105×105×185	1	**215-3744**
2000	115×115×258	1	**215-3745**
5000	160×160×357	1	**215-3746**
Amber glass			
500	94×94×139	1	**215-3747**
1000	105×105×185	1	**215-3748**
2000	115×115×258	1	**215-3749**
5000	160×160×357	1	**215-3773**

Reagent bottles, narrow neck

Produced from borosilicate 3.3 glass according to ISO 4796.

- High resistance against chemicals and thermal shock
- Available in capacities from 10 to 2000 ml
- Hollow glass stopper and ground joint

VWR® reagent bottles, with narrow neck, have a precise ground neck to ensure a water- and airtight connection between the bottle and the glass stopper. All components are made from borosilicate 3.3 glass, therefore, they are are ideal for the storage of aggressive and hot media.

Capacity (ml)	NS	Pk	Cat. No.
10	10/19	1	**215-3859**
25	12/21	1	**215-3860**
50	14/23	1	**215-3861**
100	14/23	1	**215-3862**
250	19/26	1	**215-3863**
500	24/29	1	**215-3864**
1000	29/32	1	**215-3865**
2000	29/32	1	**215-3866**

Dropping bottles

Soda-lime glass, amber.

- Good chemical and physical properties
- Delivered in practical safe trays
- Pipette kit not included

Amber to protect light-sensitive substance, with DIN 18 thread.

Description	Capacity (ml)	Pk	Cat. No.
Dropping bottles			
Bottle only	5	340	**215-3816**
Bottle only	10	198	**215-3817**
Bottle only	15	156	**215-3818**
Bottle only	20	143	**215-3819**
Bottle only	30	110	**215-3820**
Bottle only	50	144	**215-3821**
Bottle only	100	90	**215-3822**
Pipette kit with blue bulb			
Pipette kit for 5 ml dropping bottles	-	100	**215-3823**
Pipette kit for 10 and 15 ml dropping bottles	-	100	**215-3824**
Pipette kit for 20 ml dropping bottles	-	100	**215-3825**
Pipette kit for 30 ml dropping bottles	-	100	**215-3826**
Pipette kit for 50 ml dropping bottles	-	100	**215-3827**
Pipette kit for 100 ml dropping bottles	-	100	**215-3828**

Dishes, evaporating

Borosilicate 3.3 glass, with spout.

- Very good chemical resistance
- High temperature resistance up to +500 °C
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of applications. With flat bottom and white labelling area.

DIN 12336

Capacity (ml)	Height (mm)	Ø ext. (mm)	Pk	Cat. No.
10	20	40	1	**216-0083**
15	25	50	1	**216-0084**
45	30	60	1	**216-0085**
60	35	70	1	**216-0086**
90	45	80	1	**216-0087**
170	55	95	1	**216-0088**
320	65	115	1	**216-0089**
600	80	140	1	**216-0090**
1500	100	190	1	**216-0091**
2500	130	230	1	**216-0092**

Dishes, crystallising

Borosilicate 3.3 glass, with or without spout.

- Very good chemical resistance
- High temperature resistance up to +500 °C
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of applications. With white labelling area.

DIN 12337 (without spout)

DIN 12338 (with spout)

Ø ext. (mm)	Height (mm)	Capacity (ml)	Pk	Cat. No.
Without spout				
40	25	20	1	**216-0061**
50	30	40	1	**216-0063**
60	35	60	1	**216-0065**
70	40	100	1	**216-0067**
80	45	150	1	**216-0069**
95	55	300	1	**216-0071**
115	65	500	1	**216-0073**
140	75	900	1	**216-0075**
190	90	2000	1	**216-0077**
230	100	3500	1	**216-0079**
With spout				
40	25	20	1	**216-0060**
50	30	40	1	**216-0062**
60	35	60	1	**216-0064**
70	40	100	1	**216-0066**
80	45	150	1	**216-0068**
95	55	300	1	**216-0070**
115	65	500	1	**216-0072**
140	75	900	1	**216-0074**
190	90	2000	1	**216-0076**
230	100	3500	1	**216-0078**

Sample vials

Soda-lime glass, clear.

- Ideal for the storage of medication as liquids, powders or capsules
- Not suitable for heat applications

Delivery information: Delivered in practical safe trays. PE snap-caps are included.

Capacity (ml)	Ø×H (mm)	Colour	Pk	Cat. No.
3	19x30	Clear	200	**216-1758**
5	19x40	Clear	200	**216-1759**
10	22x45	Clear	200	**216-1760**
25	30x50	Clear	200	**216-1770**
30	28x75	Clear	200	**216-1776**
40	30x80	Clear	200	**216-1777**
50	30x100	Clear	200	**216-1778**
100	34x145	Clear	100	**216-1782**

Sample vials, with snap-caps

Soda-lime glass, amber.

- Ideal for the storage of medication as liquids, powders or capsules
- Used for light-sensitive liquids
- White snap-caps are impervious to ultraviolet light
- Not suitable for heat applications

Delivery information: Delivered in practical safe trays. PE snap-caps are included.

Type	Capacity (ml)	Ø×H (mm)	Colour	Pk	Cat. No.
With snap-cap	3	19×30	Amber	200	**216-1843**
With snap-cap	5	19×40	Amber	200	**216-1844**
With snap-cap	10	22×45	Amber	200	**216-1845**
With snap-cap	25	30×50	Amber	200	**216-1846**
With snap-cap	30	28×75	Amber	200	**216-1847**
With snap-cap	40	30×80	Amber	200	**216-1848**
With snap-cap	50	30×100	Amber	200	**216-1849**
With snap-cap	100	34×145	Amber	100	**216-1851**

Erlenmeyer flasks

Borosilicate 3.3 glass, clear.

- Narrow or wide neck, with beaded rim
- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of laboratory applications. Flasks have flared rim with markings for approximate volume graduations and a white labelling area.

ISO 1773 (narrow neck), DIN ISO 24450 (wide neck)

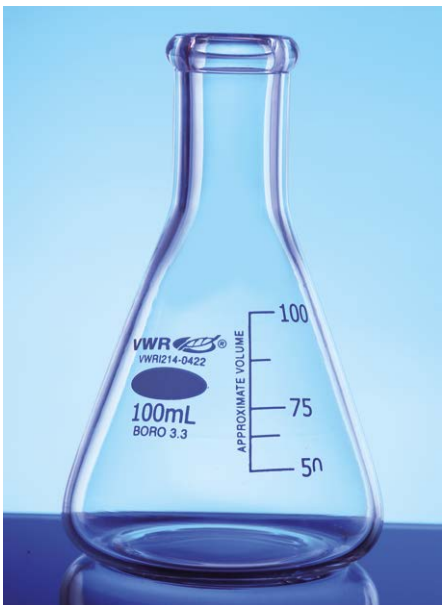
Capacity (ml)	Height (mm)	Ø ext. (mm)	Neck Ø ext. (mm)	Pk	Cat. No.
Narrow neck					
25	75	42	22	10	**214-0248**
50	90	51	22	10	**214-1130**
100	105	64	22	10	**214-1131**
250	145	85	34	10	**214-1132**
500	180	105	34	10	**214-1133**
1000	220	131	42	10	**214-1134**
2000	280	166	50	6	**214-0471**
3000	310	187	50	1	**214-1136**
5000	365	220	50	1	**214-1137**
Wide neck					
50	85	51	34	10	**214-1170**
100	105	64	34	10	**214-1171**
250	140	85	50	10	**214-1172**
300	156	87	50	10	**214-1173**
500	175	105	50	10	**214-1174**
1000	220	131	50	10	**214-1175**
2000	280	153	69	6	**214-0472**

Erlenmeyer flasks, narrow neck, heavy duty

Made from borosilicate 3.3 glass.

- Resistant against chemicals and thermal shock
- Volume graduations and labelling area

Heavy duty flasks have better mechanical stability than standard products due to thicker walls. The reinforced rims increase shock resistance and reduce the risk of breakage. Due to the increased wall thickness resistance against rapid temperature changes is not as good as those of the standard products, therefore, slow and uniform heating is recommended.



Capacity (ml)	Height (mm)	Ø ext. (mm)	Neck Ø ext. (mm)	Pk	Cat. No.
50	85	51	34	10	**214-0421**
100	105	64	34	10	**214-0422**
250	140	85	50	10	**214-0423**
500	175	105	50	10	**214-0424**
1000	220	131	50	10	**214-0425**

Erlenmeyer flasks, with standard ground joint

Borosilicate 3.3 glass, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

A good value alternative for a wide range of laboratory applications. Volume graduations and labelling area.

DIN 12387

Capacity (ml)	Height (mm)	Ø ext. (mm)	Socket size (NS)	Pk	Cat. No.
25	70	42	14/23	2	**201-1385**
50	85	51	14/23	2	**201-1386**
50	85	51	24/29	2	**201-1362**
50	85	51	29/32	2	**201-1387**
100	105	84	14/23	2	**201-1388**
100	105	84	19/26	2	**201-1389**
100	105	84	24/29	2	**201-1363**
100	105	84	29/32	2	**201-1390**
200	131	79	24/29	2	**201-1369**
200	131	79	29/32	2	**201-1391**
250	140	85	24/29	2	**201-1370**
250	140	85	29/32	2	**201-1392**
300	156	87	24/29	2	**201-1372**
300	156	87	29/32	2	**201-1393**
500	175	105	24/29	2	**201-1373**
500	175	105	29/32	2	**201-1394**
1000	220	131	29/32	1	**201-1395**

Erlenmeyer flasks with screw cap

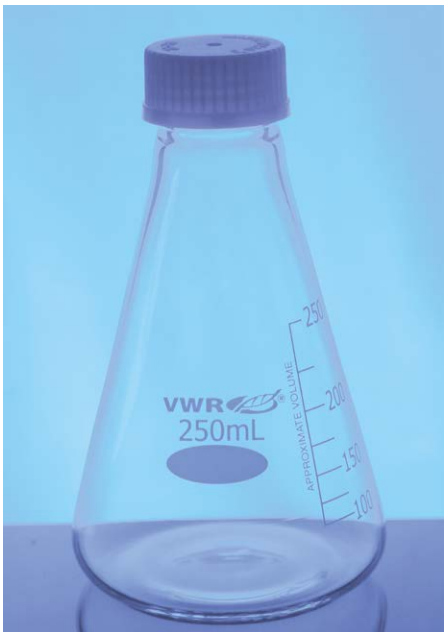
Borosilicate 3.3 glass, blue PP screw cap with PTFE liner.

- Highly resistant against chemicals and thermal shock
- Graduations and white inscription field
- Delivered with blue PP screw cap

Ideal for storage or transportation of dangerous liquids. They are leakproof and can be autoclaved together with the screw cap at 140 °C.

Be aware that the screw cap should not be closed during the autoclaving process.

Capacity (ml)	Ø ext. (mm)	Thread	Pk	Cat. No.
50	51	GL 25	1	**214-0407**
100	64	GL 25	1	**214-0408**
150	74	GL 25	1	**214-0409**
250	85	GL 32	1	**214-0410**
500	105	GL 32	1	**214-0411**
1000	131	GL 32	1	**214-0412**



Borosilicate 3.3 glass

Many items imprinted with Cat. No. for easy reordering

Flasks, round bottom, narrow or wide neck

Borosilicate 3.3 glass, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of applications. Marked with capacity and a white labelling area.

ISO 1773 (narrow neck)
DIN 12347 (wide neck)

Capacity (ml)	Height (mm)	Ø ext. (mm)	Neck Ø ext. (mm)	Pk	Cat. No.
Narrow neck					
100	110	64	26	1	**214-1177**
250	143	85	34	1	**214-1178**
500	168	105	34	1	**214-1179**
1000	200	131	42	1	**214-1180**
2000	240	166	50	1	**214-1181**
Wide neck					
100	110	64	34	1	**214-1182**
250	143	85	50	1	**214-1183**
500	168	105	50	1	**214-1184**
1000	200	131	50	1	**214-1185**
2000	240	166	76	1	**214-1186**

Flasks, round bottom with standard ground joint

Borosilicate 3.3 glass, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

The inexpensive alternative for a wide range of laboratory applications. With white labelling area and imprinted catalogue number for convenient reordering.

DIN 12348

Capacity (ml)	Socket size (NS)	Height (mm)	Ø ext. (mm)	Pk	Cat. No.
10	14/23	65	33	2	**201-1351**
25	14/23	85	41	2	**201-1352**
25	24/29	85	41	2	**201-1321**
50	14/23	90	51	2	**201-1353**
50	24/29	90	51	2	**201-1322**
50	29/32	90	51	2	**201-1354**
100	14/23	105	64	2	**201-1355**
100	24/29	105	64	2	**201-1326**
100	29/32	105	64	2	**201-1356**
250	24/29	140	85	2	**201-1342**
250	29/32	140	85	2	**201-1357**
500	24/29	163	105	2	**201-1343**
500	29/32	163	105	2	**201-1358**
1000	29/32	200	131	1	**201-1359**

Flask support ring shown is not included

Flasks, flat bottom, narrow or wide neck

Borosilicate 3.3 glass, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

Marked with capacity and a white labelling area.

ISO 1773 (narrow neck)
DIN 12347 (wide neck)

Capacity (ml)	Height (mm)	Neck Ø ext. (mm)	Ø ext. (mm)	Pk	Cat. No.
Narrow neck					
100	105	26	64	1	**214-1187**
250	138	34	85	1	**214-1188**
500	163	34	105	1	**214-1189**
1000	190	42	131	1	**214-1190**
2000	230	50	166	1	**214-1191**
Wide neck					
100	105	34	64	1	**214-1192**
250	138	50	85	1	**214-1193**
500	163	50	105	1	**214-1194**
1000	190	50	131	1	**214-1195**
2000	230	76	166	1	**214-1196**

Glass stoppers for standard ground joints

Borosilicate 3.3 glass.

- Hollow, with hexagonal grip
- Trip-tip to help liquid to return to the vessel until the last drop
- Resistant against chemicals and thermal shock

DIN 12252.

Socket size (NS)	Pk	Cat. No.
10/19	5	**217-0887**
12/21	5	**217-0888**
14/23	5	**217-0889**
19/26	5	**217-0890**
24/29	5	**217-0891**
29/32	5	**217-0892**
34/35	2	**217-0893**
45/40	2	**217-0894**

CONSTRUCT YOUR PERFECT EXPERIMENT

- Stands/platforms/clamps/rods
- Sleeves and clips
- Grease

Visit vwr.com

Flasks, flat bottom with standard ground joint

Borosilicate 3.3 glass, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

The inexpensive alternative for a wide range of laboratory applications. With white labelling area and imprinted catalogue number for convenient reordering.

DIN 12348

Capacity (ml)	Height (mm)	Ø ext. (mm)	Socket size (NS)	Pk	Cat. No.
50	85	51	24/29	2	**201-1344**
50	85	51	29/32	2	**201-1380**
100	103	64	24/29	2	**201-1348**
100	103	64	29/32	2	**201-1381**
250	130	85	24/29	2	**201-1360**
250	130	85	29/32	2	**201-1382**
500	160	105	24/29	2	**201-1361**
500	160	105	29/32	2	**201-1383**
1000	187	131	29/32	1	**201-1384**

Flasks, round bottom, with two necks and standard ground joints

Borosilicate 3.3 glass, clear, with angled side neck, clear.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

The inexpensive alternative for a wide range of laboratory applications. With white labelling area and imprinted catalogue number for convenient reordering.

DIN 12394

Capacity (ml)	Centre neck (NS)	Side necks (NS)	Pk	Cat. No.
25	14/23	14/23	1	**201-0540**
50	14/23	14/23	1	**201-0541**
100	29/32	14/23	1	**201-0542**
250	29/32	14/23	1	**201-0543**
500	29/32	14/23	1	**201-0544**
1000	29/32	14/23	1	**201-0545**

Flasks, round bottom, with three necks and standard ground joints

Borosilicate 3.3 glass, clear, with two angled side necks.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

The inexpensive alternative for a wide range of laboratory applications. With white labelling area and imprinted catalogue number for convenient reordering.

DIN 12394

Capacity (ml)	Centre neck (NS)	Side necks (NS)	Pk	Cat. No.
50	14/23	14/23	1	**201-0546**
100	29/32	14/23	1	**201-0547**
250	29/32	14/23	1	**201-0548**
500	29/32	14/23	1	**201-0549**
1000	29/32	14/23	1	**201-0552**

Flasks, round bottom with three necks and standard ground joints

Borosilicate 3.3 glass, clear, with two parallel side necks.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

The inexpensive alternative for a wide range of laboratory applications. With white labelling area and imprinted catalogue number for convenient reordering.

DIN 12394

Capacity (ml)	Centre neck (NS)	Side necks (NS)	Pk	Cat. No.
100	29/32	29/32	1	**201-0553**
250	29/32	29/32	1	**201-0554**
500	29/32	29/32	1	**201-0555**
1000	29/32	29/32	1	**201-0556**
2000	29/32	29/32	1	**201-0557**

Cork rings for round bottom flasks

The ideal rest for round bottom flasks and other round bottom glass vessels. Compressed cork, natural.

- Economical and from a renewable resource
- Lightweight, tough
- Good thermal resistance

For (ml)	Ø ext. (mm)	Pk	Cat. No.
10 - 100	80	5	**217-1000**
250 - 500	110	5	**217-1001**
500 - 1000	140	3	**217-1002**
2000	170	3	**217-1003**
4000	210	2	**217-1004**
6000	240	2	**217-1005**

Borosilicate 3.3 glass

Many items imprinted with Cat. No. for easy reordering

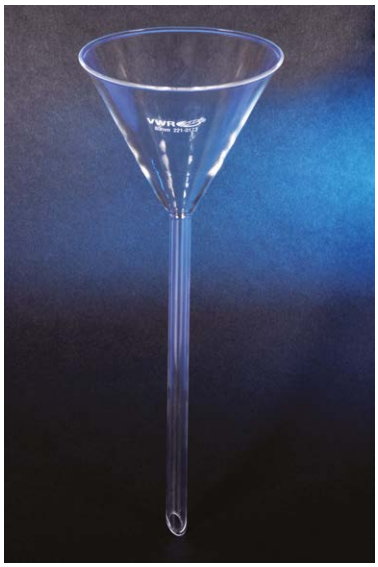
Glass beads

Soda-lime glass, solid.

- Not suitable for heat applications
- Available in sizes from 1 up to 10 mm
- Supplied in packs of 500 g

Can be used for many different applications in the laboratory. In microbiology laboratories they are used for the production of single cell suspensions or for plating. In chemical laboratories they are used as filling material for distillation columns. They can also be used to clean round bottom vessels.

Ø (mm)	Pk	Cat. No.
1,0 - 1,3	500 g	**201-1251**
2,0	500 g	**201-1252**
3,0	500 g	**201-1253**
4,0	500 g	**201-1254**
5,0	500 g	**201-1255**
6,0	500 g	**201-1256**
7,0	500 g	**201-1257**
8,0	500 g	**201-1258**
9,0	500 g	**201-1259**
10,0	500 g	**201-1260**



Funnels, long stem

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

Smooth internal walls.

ISO 4798

Stem O-Ø (mm)	Stem length (mm)	Pk	Cat. No.
65	150	2	**221-0172**
80	150	2	**221-0173**
110	180	2	**221-0174**

Funnels, short stem

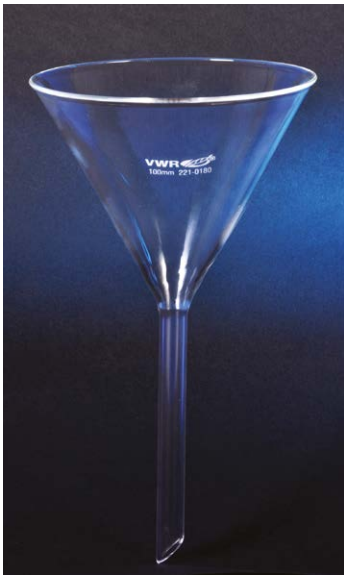
Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

Smooth internal walls.

ISO 4798

Funnel O-Ø (mm)	Stem O-Ø (mm)	For filter Ø (mm)	Stem length (mm)	Pk	Cat. No.
35	6	45 - 55	35	2	**221-0175**
45	6	55 - 70	45	2	**221-0176**
55	8	70 - 90	55	2	**221-0177**
70	8	110 - 125	70	2	**221-0178**
80	10	125 - 150	80	2	**221-0179**
100	10	150 - 185	100	2	**221-0180**
120	16	185 - 240	120	2	**221-0181**
150	18	240 - 270	150	2	**221-0182**



Funnels, powder

Borosilicate 3.3 glass.

- Good chemical and physical properties
- Very good thermal resistance
- Quick and easy to clean

Smooth internal walls. For transferring powders or liquids.

Funnel O-Ø (mm)	Stem O-Ø (mm)	Stem length (mm)	Pk	Cat. No.
50	20	30	2	**221-0183**
60	20	30	2	**221-0184**
80	25	30	2	**221-0185**
100	25	30	2	**221-0186**
120	30	30	2	**221-0187**
160	35	30	2	**221-0188**

Separating funnels, conical

Borosilicate 3.3 glass, with NS-PE stopper.

- With or without graduations
- Stopcock with PTFE key
- Very good chemical and temperature resistance

Capacity (ml)	Socket size (NS)	Pk	Cat. No.
Without graduation, with PTFE key			
50	19/26	1	**532-0006**
100	19/26	1	**532-0007**
250	29/32	1	**532-0008**
500	29/32	1	**532-0009**
1000	29/32	1	**532-0010**
2000	29/32	1	**532-0011**
With graduation, with PTFE key			
50	19/26	1	**532-0012**
100	19/26	1	**532-0013**
250	29/32	1	**532-0014**
500	29/32	1	**532-0015**
1000	29/32	1	**532-0016**
2000	29/32	1	**532-0017**

Separating funnels, Squibb

Borosilicate 3.3 glass with NS-PE stopper.

- With or without graduations
- Stopcock with PTFE key
- Very good chemical and temperature resistance

Capacity (ml)	Socket size (NS)	Pk	Cat. No.
Without graduation, with PTFE key			
50	19/26	1	**532-0018**
100	19/26	1	**532-0019**
250	29/32	1	**532-0020**
500	29/32	1	**532-0021**
1000	29/32	1	**532-0022**
2000	29/32	1	**532-0023**
With graduation, with PTFE key			
50	19/26	1	**532-0024**
100	19/26	1	**532-0025**
250	29/32	1	**532-0026**
500	29/32	1	**532-0027**
1000	29/32	1	**532-0028**
2000	29/32	1	**532-0029**

Dropping funnels, cylindrical, without pressure balance

Borosilicate 3.3 glass.

- Ground glass cone for flasks and assemblies
- PTFE key stopcock and PP stopper
- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion giving relatively high resistance to temperature changes

PTFE key stopcock for non stick, grease-free performance.

ISO 4800

Capacity (ml)	Cone size (NS)	Socket size (NS)	Pk	Cat. No.
50	14/23	14/23	1	**201-1238**
50	29/32	29/32	1	**201-1239**
100	14/23	14/23	1	**201-1240**
100	29/32	29/32	1	**201-1241**
250	29/32	29/32	1	**201-1242**
500	29/32	29/32	1	**201-1243**
1000	29/32	29/32	1	**201-1244**

Dropping funnels, cylincrical, with pressure balance

Borosilicate 3.3 glass.

- Standard taper joint top and bottom, drip stem, pressure-equalising arm
- PTFE key stopcock and plastic stopper
- Very good chemical resistance
- Very good temperature resistance

Drip stem does not extend beyond joint, thereby eliminating possible source of breakage. PTFE key for grease-free performance.

Capacity (ml)	Cone size (NS)	Socket size (NS)	Pk	Cat. No.
50	24/23	24/23	1	**201-1245**
50	29/32	29/32	1	**201-1246**
100	14/23	14/23	1	**201-1247**
100	29/32	29/32	1	**201-1248**
250	29/32	29/32	1	**201-1249**
500	29/32	29/32	1	**201-1250**

Filtering flasks, with glass hose connection

Borosilicate 3.3 glass.

- Suitable for hot and cold filtration
- Highly resistant against chemicals and thermal shock
- High temperature resistance
- White inscription field

Due to the heavy wall thickness the VWR filtration flask is vacuum tight.

Capacity (ml)	Pk	Cat. No.
100	1	**511-0260**
250	1	**511-0261**
500	1	**511-0262**
1000	1	**511-0263**
2000	1	**511-0264**

Filtration apparatus

Borosilicate 3.3 glass.

- Very good chemical resistance
- Very good temperature resistance
- Available with 1000 or 2000 ml flask
- Funnel with 300 or 500 ml capacity

All-glass filtration apparatus, with funnel, fritted base, cap, spring clamp 47 mm and ground joint flask. The unit is recommended for general filtration. Applications include, filtering corrosive solutions, particulate removal from HPLC solvents, and filtration analysis with solid phase extraction discs. Support base has a sealed-in, coarse-porosity, fritted disc.

Capacity (ml)	Description	Pk	Cat. No.
300	With 1000 ml flask	1	**511-0265**
500	With 2000 ml flask	1	**511-0266**

Description	Pk	Cat. No.
Spare parts for filtration apparatus		
Spare glass funnel 300 ml for filtration apparatus, borosilicate 3.3 glass	1	**511-0267**
Spare glass funnel 500 ml for filtration apparatus, borosilicate 3.3 glass	1	**511-0268**
Spring clamp, Aluminium, 47 mm for filtration apparatus	1	**511-0269**
Spare glass base and cap for filtration apparatus, 47 mm	1	**511-0270**
Spare ground joint flask for filtration apparatus, 1000 ml capacity	1	**511-0271**
Spare ground joint flask for filtration apparatus, 2000 ml capacity	1	**511-0272**

Silica gel, granules Chameleon®C 2,5 - 6 mm drying agent

Non toxic dessicants, for adsorbing moisture from the atmosphere and gas streams, which contain iron salts as a colour indicator. The dry material has an intense orange colour and changes to a pale beige/white colour on adsorption of water.

- Water adsorption capacity at 50% RH is a minimum of 23%
- Loss on drying at 145 °C is less than 2%
- At concentration of 10% in water, pH is from 1,5 to 5
- Regeneration can be achieved by heating to 150 °C in a drying oven

Description	Pk	Cat. No.
Silica gel, granules Chameleon® C 2,5 - 6 mm drying agent	1 kg	**83000.290**
Silica gel, granules Chameleon® C 2,5 - 6 mm drying agent	5 kg	**83000.360**

Silica gel, granules Chameleon®C 1 - 3 mm drying agent

Description	Pk	Cat. No.
Silica gel, granules Chameleon® C 1-3 mm drying agent	500 g	**83001.260**
Silica gel, granules Chameleon® C 1-3 mm drying agent	1 kg	**83001.290**
Silica gel, granules Chameleon® C 1-3 mm drying agent	5 kg	**83001.360**

Silica gel, granules Chameleon® C 2 - 6 mm drying agent in sachets

This product adsorbs water vapour so maintaining a dry environment for your products. When the gel's adsorption capacity is exhausted the colour changes from orange to colourless.
The product can be regenerated back to an orange colour by heating in a drying oven at 120 - 140 °C for approximately 3 hours and then re-used. It is suitable for numerous drying applications although it is not recommended for strongly acidic or strongly alkaline compounds.

Description	Pk	Cat. No.
Silica gel, granules Chameleon® C 2 - 6 mm drying agent in sachets	500	**87185.2500**

Desiccators

Borosilicate 3.3 glass.

- Precisely ground flat flanges and interchangeable knobbed lids
- Base and lid with flat flange ground to fit
- High mechanical, thermal and chemical resistance

These desiccators are ideal for drying, drying processes and protecting samples from the effects of air and moisture.

DIN 12491

Nominal size (DN)	Usable height (mm)	Ø ext.×H (mm)	Ø int. (mm)	Pk	Cat. No.
Desiccators					
100	65	153×195	92	1	**467-0069**
150	95	215×265	143	1	**467-0070**
200	130	270×315	192	1	**467-0071**
250	140	320×370	239	1	**467-0072**
300	165	380×445	285	1	**467-0073**

Type	Ø (mm)	Pk	Cat. No.
Desiccator plates			
Porcelain	90	1	**467-0100**
Porcelain	140	1	**467-0101**
Porcelain	190	1	**467-0102**
Porcelain	235	1	**467-0103**
Porcelain	280	1	**467-0104**

Vacuum desiccators

Borosilicate 3.3 glass.

- Precisely ground flat flanges and interchangeable tubulated lids
- Standard ground joint NS 24/29 junction tube in the lid, complete with stopcock plus PTFE spindle
- Base and lid with flat flange ground to fit
- High mechanical, thermal and chemical resistance

Due to the increased wall thickness these desiccators can be used up to the maximum vacuum that is technically possible.

DIN 12491

Type	Nominal size (DN)	Ø ext.×H (mm)	Ø int. (mm)	Pk	Cat. No.
With stopcock	100	153×180	92	1	**467-0086**
With stopcock	150	215×250	143	1	**467-0087**
With stopcock	200	270×315	192	1	**467-0088**
With stopcock	250	320×355	239	1	**467-0089**
With stopcock	300	380×435	258	1	**467-0090**

Pasteur pipettes

Soda-lime glass, disposable.

- Non sterile
- Automated manufacturing process ensuring total uniformity of production
- Tapered upper opening for cotton ball plugging
- Top body outer diameter: 7,1 mm, wall thickness: 0,53 mm, jet outer Ø: 1,50 mm

Description	Capacity (ml)	Length (mm)	Pk	Cat. No.
Non plugged	2,0	150	250	**612-1701**
Pre-plugged	2,0	150	250	**612-1798**
Non plugged	2,0	230	250	**612-1702**
Non plugged, sealed tip, breakable	2,0	230	250	**612-3850**
Pre-plugged	2,0	230	250	**612-1799**
Pre-plugged, sealed tip, breakable	2,0	230	250	**612-3849**
Non plugged, sealed tip, breakable	2,0	270	250	**612-3860**
Pre-plugged, sealed tip, breakable	2,0	270	250	**612-3861**

Pipette bulbs

Natural latex.

- For Pasteur pipettes, small pipettes and medical drop counters

Capacity: 1 - 2 ml

Length: 38/57 mm

Description	Colour	Pk	Cat. No.
Dropper bulbs, 1 ml, 38 mm	Natural	72	**612-2691**
Dropper bulbs, 2 ml, 57 mm	Natural	72	**612-2693**

Test tubes with or without rim

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes

The economical alternative for a wide range of uses. Thick walled.

DIN 12395

Length (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
With rim				
75	12	0,9 - 1,0	100	**212-0307**
100	12	0,9 - 1,0	100	**212-0308**
130	14	0,9 - 1,0	100	**212-0309**
130	16	1,1 - 1,2	100	**212-0310**
150	20	1,1 - 1,2	100	**212-0313**
150	25	1,1 - 1,2	50	**212-0315**
160	16	1,1 - 1,2	100	**212-0311**
180	18	1,1 - 1,2	100	**212-0312**
180	20	1,1 - 1,2	100	**212-0314**
200	25	1,1 - 1,2	50	**212-0316**
200	30	1,1 - 1,2	50	**212-0317**
Without rim				
75	10	0,8 - 1,0	100	**212-0027**
75	12	0,8 - 1,0	100	**212-0028**
100	10	0,8 - 1,0	100	**212-0029**
100	12	0,8 - 1,0	100	**212-0030**
130	14	0,9 - 1,0	100	**212-0318**
130	16	1,1 - 1,2	100	**212-0319**
150	20	1,1 - 1,2	100	**212-0320**
150	25	1,1 - 1,2	50	**212-0322**
160	16	0,8 - 1,0	100	**212-0031**
180	18	0,8 - 1,0	100	**212-0032**
180	20	1,1 - 1,2	100	**212-0321**
200	25	1,1 - 1,2	50	**212-0323**
200	30	1,1 - 1,2	50	**212-0324**

Test tubes without rim

Soda lime glass.

- Thin walled
- Good chemical and physical properties
- Can also be used as disposable test tubes

The economically proven alternative in an economy size pack.

Length (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
75	10	0,5 - 0,6	1000	**212-0464**
75	12	0,5 - 0,6	1000	**212-0465**
100	12	0,5 - 0,6	1000	**212-0466**
100	13	0,5 - 0,6	1000	**212-0467**
100	14	0,5 - 0,6	1000	**212-0468**
100	16	0,6 - 0,7	1000	**212-0469**
120	12	0,6 - 0,7	500	**212-0470**
125	16	0,6 - 0,7	1000	**212-0471**
150	16	0,6 - 0,7	1000	**212-0472**
160	16	0,6 - 0,7	1000	**212-0473**

Test tubes with rim

FIOLAX®, neutral glass.

- Very good chemical resistance
- Relatively resistant against rapid temperature changes and local heating

The economical alternative for a wide range of uses. Thin walled.

DIN 12395

Length (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
70	8	0,4 - 0,5	100	**212-0021**
75	10	0,4 - 0,5	100	**212-0300**
75	12	0,4 - 0,5	100	**212-0301**
100	10	0,4 - 0,5	100	**212-0022**
100	12	0,4 - 0,5	100	**212-0023**
130	14	0,4 - 0,5	100	**212-0302**
130	16	0,5 - 0,6	100	**212-0303**
150	25	0,6 - 0,7	50	**212-0304**
160	16	0,5 - 0,6	100	**212-0024**
180	18	0,5 - 0,6	100	**212-0025**
180	20	0,5 - 0,6	100	**212-0026**
200	25	0,6 - 0,7	50	**212-0305**
200	30	0,7 - 0,8	50	**212-0306**

Test tubes without rim

Soda-lime glass.

- Thick walled
- Good chemical and physical properties
- Can also be used as disposable test tubes

The economically proven alternative in an economy size pack. Wall thickness approximately 0,8 to 1,0 mm.

Length (mm)	Ø ext. (mm)	Pk	Cat. No.
40	8	250	**212-0011**
70	10	250	**212-0012**
75	12	250	**212-0013**
100	10	250	**212-0014**
100	12	250	**212-0015**
100	14	250	**212-0017**
100	16	250	**212-0016**
130	14	250	**212-0018**
160	16	250	**212-0019**
180	18	250	**212-0020**

Culture tubes with black PP screw cap

Made from soda-lime glass, clear.

- GL thread
- Wall thickness 1 mm (±0,04 mm)
- High chemical and mechanical resistance

Ø×L (mm)	Thread	Pk	Cat. No.
12×100	GL 14	100	**212-0656**
16×100	GL 18	100	**212-0657**
16×160	GL 18	100	**212-0658**
18×180	GL 18	100	**212-0659**

Weighing bottles

Borosilicate 3.3 glass, low form.

- Interchangeable knobbed lid with ground joint
- Writing area in white colour
- Resistant against chemicals and thermal shock
- Autoclavable

Capacity (ml)	Ø×H (mm)	NS	Pk	Cat. No.
6	25×25	24/12	1	**611-3817**
15	35×30	34/12	1	**611-3818**
15	40×25	40/12	1	**611-3819**
30	50×30	50/12	1	**611-3820**
45	60×30	60/12	1	**611-3821**
80	80×30	80/12	1	**611-3822**

Weighing boats

Borosilicate 3.3 glass.

- Ideal for weighing small samples
- Powders can be tapped or rinsed through the tubular stem of the weighing boats into the receiving vessel

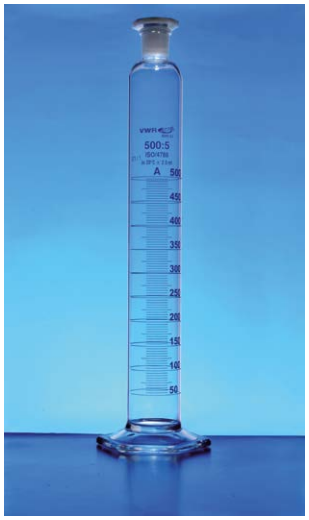
Capacity (ml)	Length (mm)	Pk	Cat. No.
3	70	3	**611-9194**
6	85	3	**611-9195**
10	100	3	**611-9196**

Mixing measuring cylinders

Borosilicate 3.3 glass, class A.

- Calibrated to contain (TC, In)
- Hexagonal glass base, NS ground and PE stopper
- Ring marks at major graduations, marks and inscriptions in blue colour
- Batch certificate included

DIN EN ISO 4788



Capacity (ml)	Division (ml)	Height (mm)	Pk	Cat. No.
10	0,2	160	2	**612-5771**
25	0,5	190	2	**612-5772**
50	1,0	220	2	**612-5773**
100	1,0	285	2	**612-5774**
250	2,0	350	2	**612-5775**
500	5,0	395	2	**612-5776**
1000	10,0	500	1	**612-5777**

Measuring cylinders

Borosilicate 3.3 glass, class A, tall form.

- Calibrated to contain (TC, In)
- Hexagonal glass base, with spout
- Blue graduations with ring marks at major graduations
- Batch number and enclosed batch certificate

DIN 12680

Capacity (ml)	Division (ml)	Tolerance (± ml)	Pk	Cat. No.
5	0,1	0,05	2	**612-3832**
10	0,2	0,1	2	**612-3833**
25	0,5	0,25	2	**612-3834**
50	1	0,5	2	**612-3835**
100	1	0,5	2	**612-3836**
250	2	1	2	**612-3837**
500	5	2,5	2	**612-3838**
1000	10	5	1	**612-3839**
2000	20	10	1	**612-3840**

Measuring cylinders

Borosilicate 3.3 glass, class B, low form.

- Hexagonal glass base, with spout
- High contrasting amber stain graduations with ring marks at major graduations

DIN 12680

Capacity (ml)	Division (ml)	Tolerance (± ml)	Pk	Cat. No.
10	1	0,3	2	**612-3841**
25	1	0,5	2	**612-3842**
50	2	1,0	2	**612-3843**
100	2	1,0	2	**612-3844**
250	5	2,0	2	**612-3845**
500	10	5,0	2	**612-3846**
1000	20	10,0	1	**612-3847**

Volumetric flasks

Borosilicate 3.3 glass, class A.

- PP stopper
- Marks in white and inscriptions in blue enamel
- Batch number and enclosed batch certificate
- Calibrated to contain (TC, In)

DIN EN ISO 1042

Capacity (ml)	NS	Tolerance (± ml)	Pk	Cat. No.
5	10/19	0,040	2	**612-3738**
10	10/19	0,040	2	**612-3740**
20	10/19	0,040	2	**612-3741**
25	10/19	0,040	2	**612-3742**
50	12/21	0,060	2	**612-3743**
100	14/23	0,100	2	**612-3744**
200	14/23	0,150	2	**612-3745**
250	14/23	0,150	2	**612-3746**
500	19/26	0,250	2	**612-3818**
1000	24/29	0,400	1	**612-3819**
2000	29/32	0,600	1	**612-3820**

Volumetric flasks

Borosilicate 3.3 glass, amber, class A.

- PE stopper
- Marks and inscriptions in white enamel
- Batch number and enclosed batch certificate
- Calibrated to contain (TC, In)

DIN EN ISO 1042

Capacity (ml)	NS	Tolerance (± ml)	Pk	Cat. No.
5	10/19	0,04	2	**612-3821**
10	10/19	0,04	2	**612-3822**
20	10/19	0,04	2	**612-3823**
25	10/19	0,04	2	**612-3824**
50	12/21	0,06	2	**612-3825**
100	14/23	0,10	2	**612-3826**
200	14/23	0,15	2	**612-3827**
250	14/23	0,15	2	**612-3828**
500	19/26	0,25	2	**612-3829**
1000	24/29	0,40	1	**612-3830**
2000	29/32	0,60	1	**612-3831**

Burettes, lateral stopcock

Borosilicate 3.3 glass, class AS.

- Schellbach stripe, stopcock with glass key
- High contrast blue enamel graduations
- Batch certificate included

DIN EN ISO 385

Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,02	500	1	**612-4142**
25	0,1	0,03	500	1	**612-4143**
50	0,1	0,05	500	1	**612-4144**

Burettes, straight stopcock

Borosilicate 3.3 glass, class AS.

- Schellbach stripe, stopcock with glass key
- High contrast blue enamel graduations
- Batch certificate included

DIN EN ISO 385

Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,02	500	1	**612-4139**
25	0,05	0,03	500	1	**612-4140**
50	0,1	0,05	500	1	**612-4141**

Bulb pipettes, one mark, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver, total delivery
- Ring mark and inscriptions in high contrast amber stain
- Dated batch identification and batch certificate
- Not available with individual certificate

DIN EN ISO 648

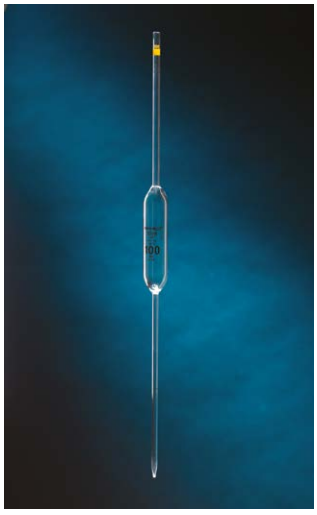
Capacity (ml)	Tolerance (± ml)	Length (mm)	Pk	Cat. No.
1	0,007	300	3	**612-4129**
2	0,010	330	3	**612-4130**
3	0,010	350	3	**612-4131**
4	0,015	410	3	**612-4132**
5	0,015	410	3	**612-4133**
10	0,020	450	3	**612-4134**
20	0,030	520	2	**612-4135**
25	0,030	530	2	**612-4136**
50	0,050	550	2	**612-4137**
100	0,080	600	2	**612-4138**

Bulb pipettes, two marks, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Ring mark and inscriptions in high contrast amber stain
- Dated batch identification and batch certificate

DIN EN ISO 648



Capacity (ml)	Tolerance (± ml)	Length (mm)	Pk	Cat. No.
1	0,007	300	3	**612-4775**
2	0,010	330	3	**612-4776**
3	0,010	350	3	**612-4777**
4	0,015	410	3	**612-4778**
5	0,015	410	3	**612-4779**
10	0,020	450	3	**612-4780**
20	0,030	520	2	**612-4781**
25	0,030	530	2	**612-4782**
50	0,050	550	2	**612-4783**
100	0,080	600	2	**612-4784**

Graduated pipettes, type 3, class AS

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Marks and inscriptions in amber stain
- Cotton plug ending (cotton plugs not included)
- Lot certificate

DIN 12696, ISO 835

Capacity (ml)	Division (ml)	Tolerance (± ml)	Pk	Cat. No.
0,5	0,01	0,0075	3	**612-4767**
1	0,01	0,01	3	**612-4768**
2	0,02	0,015	3	**612-4769**
5	0,1	0,045	3	**612-4770**
10	0,1	0,075	3	**612-4771**
20	0,1	0,15	2	**612-4772**
25	0,1	0,15	2	**612-4773**
50	0,2	0,3	2	**612-4774**

Graduated pipettes, type 3, class B

Borosilicate 3.3 glass.

- Calibrated to deliver (TD, Ex)
- Marks and inscriptions in amber stain
- Cotton plug ending (cotton plugs not included)

DIN 12696

Capacity (ml)	Division (ml)	Tolerance (± ml)	Pk	Cat. No.
0,5	0,01	0,008	3	**612-4121**
1	0,01	0,01	3	**612-4122**
2	0,02	0,015	3	**612-4123**
5	0,1	0,045	3	**612-4124**
10	0,1	0,075	3	**612-4125**
20	0,1	0,15	2	**612-4126**
25	0,1	0,15	2	**612-4127**
50	0,2	0,3	2	**612-4128**

Safety pipette fillers, Standard / Universal / Flip

Standard

Universal

Flip

Natural rubber.

- For measuring and volumetric pipettes up to 10 ml (Standard) or 100 ml (Universal/Flip)
- Standard/Universal: Three ventilation valves
- Flip: Only two operating points for easier usage (release through an automatic removable valve)

Description	Colour	Pk	Cat. No.
Safety pipette filler Standard	Red	1	**612-1930**
Safety pipette filler Standard	Blue	1	**612-2008**
Safety pipette filler Universal	Red	1	**612-1931**
Safety pipette filler Universal	Blue	1	**612-2004**
Safety pipette filler Flip	Red	1	**612-1920**
Safety pipette filler Flip	Blue	1	**612-1947**

Pipette filler, Smoothie™

3 year warranty

Pipette filler for glass and plastic pipettes from 1 to 25 ml.

- Comfortable and simple to use
- Smooth, controllable thumb action
- Silicone adapter for leakproof positioning of each pipette

The Smoothie™ pipette filler is a simple manual pipetting aid for convenient single handed operation. The unique range control allows selection from a choice of two dispense resolutions. One range setting delivers fast filling with optimal accuracy when used with 10 to 25 ml pipettes, the other setting is for use with pipettes from 1 to 10 ml where accuracy of fill can sometimes be difficult to control.

Description	Pk	Cat. No.
Pipette filler Smoothie™	1	**612-4546**

Pipette filler, Safetypette

Pipette filler for glass and plastic pipettes from 1 to 100 ml.

- Replaceable hydrophobic membrane filter to protect the instrument from liquid penetration
- Separate buttons for aspirating/dispensing and discharging
- Silicone adapter for leakproof positioning of each pipette

The Safetypette pipette filler facilitates the pipetting of a wide range of liquids. The practical arrangement of the controls makes work easier and gives maximum safety during serial pipetting.

Ordering information: Supplied with three separate nose cones in three different colours.

Description	Pk	Cat. No.
Pipette filler Safetypette	1	**612-4548**

Description	Pk	Cat. No.
Accessories		
Replacement filter set 0,2 µm	5	**612-3681**
Replacement filter set 0,45 µm	5	**612-3678**
Replacement silicone pipette holder	1	**612-3679**

Pipette controller, Powerpette Pro

Pipette controller for glass and plastic pipettes from 1 to 100 ml.

- Lightweight UV resistant body (180 g) and nose cones
- Fills a 25 ml pipette in under three seconds on its fastest setting
- Autoclavable silicone pipette holder
- Replaceable hydrophobic membrane filter protects the unit against liquid influx and protects samples against contamination
- Environmentally friendly rechargeable NiMH battery allows continuous usage for four hours; low battery light; rechargeable during use

The Powerpette Pro pipette controller delivers efficient performance with a powerful but quiet motor to speed up large volume pipetting. The mode selection switch enables selection of high or low modes both allowing variable aspirate and dispense speeds (with blow out). In any mode setting the speed of suction and dispensing is controlled through the concave finger triggers, designed to provide a comfortable and positive grip, and to require minimum effort. An additional gravity dispense mode is designed for use with 'To Deliver' (TD) pipettes. The Powerpette Pro is now supplied with additional coloured nose cones to allow laboratory, application or user colour coding to minimise the risk of cross-contamination.

Ordering information: Supplied with charger, two spare hydrophobic filters (1×0,45 µm, 1×0,2 µm), bench stand/wall bracket and a coloured nose cone set.

Description	Pk	Cat. No.
Pipette controller Powerpette Pro, EU-charger	1	**612-4552**
Pipette controller Powerpette Pro, UK-charger	1	**612-4553**

Description	Pk	Cat. No.
Accessories		
Replacement filter set 0,2 µm	5	**612-3681**
Replacement filter set 0,45 µm	5	**612-3678**
Replacement silicone pipette holder	1	**612-3679**
Pack of 3 coloured nose cones (red, blue and pink)	1	**612-4555**

Safety bulb pipette fillers

Red rubber with white plastic connector and silicone conical adapter, autoclavable.

- For large and small capacity pipettes
- Conical adapter for connecting pipettes more securely, avoids breakages because it requires less force to fit on the bulb
- Elastic cord for attaching the bulb to a reagent vessel or to the user's wrist

Capacity: 15 ml

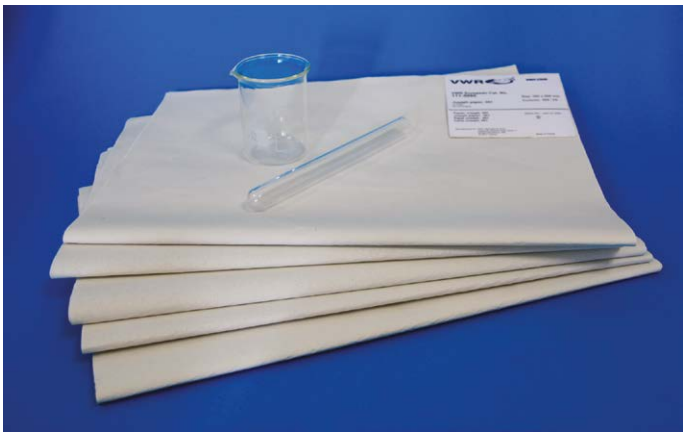
Description	Colour	Pk	Cat. No.
Safety bulb pipette fillers, 15 ml	Red/white	3	**612-2703**

Joseph paper, grade 551

Absorbent paper, suitable for cleaning and drying of glass containers, tubes, microscopic plates, bottles, etc.

Thickness (mm)	0,07
Weight	25 g/m^2

Description	L×W (mm)	Pk	Cat. No.
Plain	350×500	500	**111-5005**
Plain	350×500	800	**111-5007**
Folded	350×500	40	**111-5009**
Folded	350×500	500	**111-5006**



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