

VWR[®] glassware

01. NON VOLUMETRIC
GLASSWARE

02. VOLUMETRIC
GLASSWARE

03. PIPETTE FILLERS &
CONTROLLERS

04. CLEANING



VWR® glassware

High quality glassware for all your applications. Glassware is indispensable for chemists and research scientists. In this guide you will find reliable glassware for your experiments, from standard to volumetric. VWR Collection glassware is also cost effective!



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VWR glassware – Quality need not always be expensive



VWR glassware is produced from high quality borosilicate 3.3 glass which is due to its composition is characterised by excellent chemical resistance, high temperature resistance and very good resistance against thermal shock.

Produced according to the international standard DIN ISO 3585 borosilicate 3.3 glass is therefore the ideal glass for mostly all laboratory applications.

Chemical composition of VWR borosilicate 3.3 glass:

Substance	% by weight
SiO ₂	80
B ₂ O ₃	13
Na ₂ O ₃	4
Al ₂ O ₃	2
K ₂ O	1

Chemical properties of VWR borosilicate 3.3 glassware:

VWR borosilicate 3.3 glassware is characterised by 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.

Physical properties of VWR borosilicate 3.3 glassware:

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

Information regarding the use of VWR borosilicate 3.3 glassware:

- **Cleaning:** Can be cleaned with common detergents in a dishwasher
- **Sterilisation:** Can be steam sterilized 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 vessel should not be more than ¾ filled with water

BEAKERS, LOW FORM

Borosilicate 3.3 glass, with spout.

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

An economical alternative for a wide range of laboratory applications.

DIN 12331, ISO 3819



Capacity (ml)	Height (mm)	Ext.Ø (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)	Ext.Ø (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	120	6	213-0470
3000	280	135	1	213-1178

BEAKERS, LOW FORM, HEAVY DUTY

Borosilicate 3.3 glass, with spout.

- Good chemical and thermal shock resistance
- Durable labelling area with matt finish 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 to rapid temperature changes is not as good as that of the standard product, therefore, slow, uniform heating is recommended.



Capacity (ml)	Height (mm)	Ext.Ø (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

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.
50	GL 32	46	91	10	215-3261
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.
50	GL 32	46	91	1	215-3275
100	GL 45	56	105	1	215-2325
250	GL 45	70	143	1	215-2326
500	GL 45	86	181	1	215-2327
1000	GL 45	101	230	1	215-2328
2000	GL 45	136	265	1	215-2329
5000	GL 45	181	336	1	215-2330
10000	GL 45	227	416	1	215-2337
20000	GL 45	288	512	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 even accommodate 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

Borosilicate 3.3 glass according to ISO 4796.

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



These reagent bottles have a precise ground neck to ensure a water- and air-tight connection between the bottle and the glass stopper. All components are made from borosilicate 3.3 glass, and are therefore ideal for the storage of aggressive and hot media.

Capacity (ml)	NS	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
10	10/19	36	50	1	215-3859
25	12/21	36	64	1	215-3860
50	14/23	42	78	1	215-3861
100	14/23	52	95	1	215-3862
250	19/26	70	128	1	215-3863
500	24/29	85	180	1	215-3864
1000	29/32	105	225	1	215-3865
2000	29/32	133	260	1	215-3866

ASPIRATOR BOTTLES, WITH STOPCOCK

Borosilicate 3.3 glass, with blue PP screw cap (GL 45) and interchangeable glass stopcock.

- Very good chemical resistance
- High temperature resistance and high resistance to thermal shock
- All parts of the bottle are fully autoclavable



Ideal for the storage of liquids containing aggressive acids or alkalis.

Capacity (ml)	Height (mm)	Ø ext. (mm)	NS stopper	Pk	Cat. No.
1000	225	101	24/29	1	215-4179
2000	260	136	29/32	1	215-4180
5000	330	181	29/32	1	215-4181
10000	410	227	29/32	1	215-4182



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

Ø ext. (mm)	Height (mm)	Capacity (ml)	Pk	Cat. No.
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



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



PETRI DISHES, GLASS

Made from borosilicate 3.3 glass and can, therefore, be sterilised and/or used for applications that require heat. These reusable glass Petri dishes are a green alternative to Petri dishes made from plastic, especially for smaller laboratories.

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

Version	Ø (mm)	Height (mm)	Sterility	Pk	Cat. No.
Without vents	60	20	Aseptic	10	391-0576
Without vents	80	20	Aseptic	10	391-0577
Without vents	100	15	Aseptic	10	391-0578
Without vents	100	20	Aseptic	10	391-0579
Without vents	120	20	Aseptic	5	391-0580
Without vents	150	25	Aseptic	2	391-0581



WATCH GLASSES

Borosilicate 3.3 glass.

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

These watch glasses are concave shaped, and can be used to evaporate liquids, hold solids while being weighed, or as covers for vessels.

Ø ext. (mm)	Pk	Cat. No.
40	10	216-2181
50	10	216-2182
60	10	216-2183
80	10	216-2184
100	10	216-2185
125	10	216-2186
150	2	216-2187
200	2	216-2188
250	1	216-2189



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 substances, with DIN 18 thread.

Description	Capacity (ml)	Pk	Cat. No.
Dropping bottles			
Bottle only	5	228	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



SAMPLE VIALS, WITH SNAP-CAPS

Soda-lime glass, amber.

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

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

Capacity (ml)	Ø×H (mm)	Colour	Pk	Cat. No.
3,00	19×30	Brown	200	216-1843
5,00	19×40	Brown	200	216-1844
10,00	22×45	Brown	200	216-1845
25,00	30×50	Brown	200	216-1846
30,00	28×75	Brown	200	216-1847
40,00	30×80	Brown	200	216-1848
50,00	30×100	Brown	200	216-1849
100,00	34×145	Brown	100	216-1851



SAMPLE VIALS, WITH SNAP-CAPS

Soda-lime glass, clear.

- Ideal for storing medication as liquids, powders or capsules
- Not suitable for heat applications

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

Capacity (ml)	Ø×H (mm)	Colour	Pk	Cat. No.
3,00	19×30	Clear	200	216-1758
5,00	19×40	Clear	200	216-1759
10,00	22×45	Clear	200	216-1760
25,00	30×50	Clear	200	216-1770
30,00	28×75	Clear	200	216-1776
40,00	30×80	Clear	200	216-1777
50,00	30×100	Clear	200	216-1778
100,00	34×145	Clear	100	216-1782



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

Borosilicate 3.3 glass.

- Resistant to 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 to 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 SCREW CAP

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

- Highly resistant to chemicals and thermal shock
- Graduations and white labelling area
- 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



Volumetric solutions for titration

- Labelled with minimum shelf life/batch number
- Traceable to SRM from NIST
- Certificates of Analysis available on web

AVS® TITRINORM®, accuracy 0,2%

Complete range of ready to use volumetric solutions from 250 ml to 20 l.

ConvoL® NORMADOSE®, accuracy 0,5%

Complete range of concentrated volumetric solutions in plastic or glass ampoules to make 1 l.



For more information, please contact your local VWR sales office.



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

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	Pk	Cat. No.
Flasks					
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

NS	Pk	Cat. No.
Glass stoppers for standard ground joints		
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



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

Ø ext.	For	Pk	Cat. No.
Cork rings for round bottom flasks			
80	10 - 100 ml flasks	5	217-1000
110	250 - 500 ml flasks	5	217-1001
140	500 - 1000 ml flasks	3	217-1002
170	2000 ml flasks	3	217-1003



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

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

Ø ext. (mm)	For	Pk	Cat. No.
Cork rings for round bottom flasks			
80	10 - 100 ml flasks	5	217-1000
110	250 - 500 ml flasks	5	217-1001
140	500 - 1000 ml flasks	3	217-1002

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

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

Ø ext.	For	Pk	Cat. No.
Cork rings for round bottom flasks			
80	10 - 100 ml flasks	5	217-1000
110	250 - 500 ml flasks	5	217-1001
140	500 - 1000 ml flasks	3	217-1002

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

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

Ø ext.	For	Pk	Cat. No.
Cork rings for round bottom flasks			
80	10 - 100 ml flasks	5	217-1000
110	250 - 500 ml flasks	5	217-1001
140	500 - 1000 ml flasks	3	217-1002

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



An 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

Ø ext.	For	Pk	Cat. No.
Cork rings for round bottom flasks			
80	10 - 100 ml flasks	5	217-1000
110	250 - 500 ml flasks	5	217-1001
140	500 - 1000 ml flasks	3	217-1002
170	2000 ml flasks	3	217-1003

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	110	22	64	1	214-1187
250	140	34	85	1	214-1188
500	170	34	105	1	214-1189
1000	200	42	131	1	214-1190
2000	250	50	166	1	214-1191
Wide neck					
100	110	34	64	1	214-1192
250	140	50	85	1	214-1193
500	170	50	105	1	214-1194
1000	200	50	131	1	214-1195
2000	250	76	166	1	214-1196



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

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

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

ROTARY EVAPORATING FLASKS

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance and high resistance to thermal shock
- White labelling area and imprinted catalogue number

These pear-shaped rotary evaporating flasks are produced from thick walled borosilicate glass tubing. With standard ground socket, suitable for all standard rotary evaporators.



Capacity (ml)	Socket size (NS)	Pk	Cat. No.
100	29/32	1	531-1099
250	29/32	1	531-1100
500	29/32	1	531-1101
1000	29/32	1	531-1102
2000	29/32	1	531-1103

ADAPTERS WITH STOPCOCK AND CONNECTOR

Borosilicate 3.3 glass.

- Highly resistant to aggressive chemicals and thermal shock
- Straight or right angled tubing connector
- Standard ground joint and standard ground joint stopcock (NS)
- Stopcock with solid glass key, bore 2,5 mm

Outer diameter of the tubing connector: 8 mm



Cone size (NS)	Connector	Pk	Cat. No.
14/23	Straight	1	201-1374
19/26	Straight	1	201-1375
24/29	Straight	1	201-1376
29/32	Straight	1	201-1377
14/23	Right angled	1	201-1378
19/26	Right angled	1	201-1379
24/29	Right angled	1	201-1396
29/32	Right angled	1	201-1397



GLASS STOPPERS FOR STANDARD GROUND JOINTS

Borosilicate 3.3 glass.

- Hollow, with hexagonal grip
- Trip-tip to ensure every last drop of liquid returns into the vessel
- Resistant to chemicals and thermal shock

DIN 12252

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



SPLASH HEADS, STUTZER, STRAIGHT

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance and high resistance to thermal shock
- Straight, with standard ground joint and socket

These splash heads, according to Stutzer, can be placed directly onto the distillation flask to intercept droplets.

Socket size (NS)	Cone size (NS)	Pk	Cat. No.
14/23	14/23	1	201-1398
29/32	14/23	1	201-1399
19/26	24/29	1	201-1400
29/32	29/32	1	201-1403



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CONDENSERS WITH COOLING COIL AND JACKET

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance and high resistance to thermal shock
- Standard ground cone and socket

These condensers, with cooling coil and jacket, have an additional cooling surface for condensing highly volatile vapours. With GL 14 screw thread and 8 mm external diameter tubing connection.



Cone size (NS)	Socket size (NS)	Jacket length (mm)	Pk	Cat. No.
29/32	29/32	160	1	201-1416
29/32	29/32	250	1	201-1417
29/32	29/32	400	1	201-1405
29/32	29/32	500	1	201-1408

SOXHLET EXTRACTORS

Borosilicate 3.3 glass.

- High chemical resistance
- High temperature resistance and high resistance to thermal shock
- Standard ground socket

For the extraction from solids with solvents. The solvent is recirculated continuously and distilled from the extracted sample before contacting the solid again. The extract is concentrated in a distillation flask.

The distillation flask and condenser must be ordered separately.



Flask capacity (ml)	Socket size (NS)	Pk	Cat. No.
30	29/32	1	537-0047
70	34/35	1	537-0048
100	45/40	1	537-0049
250	45/40	1	537-0050
500	60/46	1	537-0045
1000	71/51	1	537-0046

DIMROTH CONDENSERS WITH STANDARD GROUND JOINTS

Borosilicate 3.3 glass.

- Very good chemical resistance
- High temperature resistance and high resistance to thermal shock
- Standard ground cone and socket

These Dimroth condensers are equipped with a double spiral for effective condensation of vapours. With GL 14 screw thread and 8 mm external diameter tubing connection.



Cone size (NS)	Socket size (NS)	Jacket length (mm)	Pk	Cat. No.
14/23	14/23	160	1	201-1409
29/32	29/32	250	1	201-1412
29/32	29/32	400	1	201-1415

FUNNELS, WITH 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



Funnel O-Ø (mm)	Stem O-Ø (mm)	Stem length (mm)	Pk	Cat. No.
65	9	150	2	221-0172
80	9	150	2	221-0173
110	9	180	2	221-0174

FUNNELS WITH 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.
With PTFE key, non graduated			
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 PTFE key, graduated			
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, CYLINDRICAL, WITH PRESSURE BALANCE

Borosilicate 3.3 glass.

- Standard tapered joints top and bottom, drip stem and 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 a possible cause of breakage. PTFE key for grease-free performance.

Capacity (ml)	Cone size (NS)	Socket size (NS)	Pk	Cat. No.
50	14/23	14/23	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

FILTER HOLDER

Glass filter holder with stainless steel screen, 47 mm.



Description	Pk	Cat. No.
Glass filter holder with stainless steel screen	1	511-0666



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, 47 mm Ø spring clamp and ground joint flask. This 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.
Accessories		
Spare glass base and cap for filtration apparatus, 47 mm	1	511-0270
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
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
Spring clamp, aluminium, 47 mm for filtration apparatus	1	511-0269



FILTRING FLASKS, WITH GLASS HOSE CONNECTION

Borosilicate 3.3 glass.

- Suitable for hot and cold filtration
- Highly resistant to chemicals and thermal shock
- High temperature resistance
- White labelling area

Due to the heavy wall thickness the 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



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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	285	1	467-0090



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



DESICCATOR PLATES

Porcelain desiccator plates. Central hole Ø 20 mm, filter holes Ø ~5 mm. Suitable for use with any desiccators with corresponding diameter.

DIN 12911

Type	Ø (mm)	Pk	Cat. No.
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

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SILICA GEL, GRANULES, CHAMELEON® C 2,5 - 6 MM DRYING AGENT

Non toxic desiccants, 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	Pack type	Pk	Cat. No.
Silica gel, granules, Chameleon® C 2,5 - 6 mm drying agent	Plastic bottle for solids	1 kg	83000.290
Silica gel, granules, Chameleon® C 2,5 - 6 mm drying agent	Bucket (plastic)	5 kg	83000.360

SILICA GEL, GRANULES, CHAMELEON® C 1 - 3 MM DRYING AGENT

Non toxic desiccants, 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	Pack type	Pk	Cat. No.
Silica gel, granules, Chameleon® C 1 - 3 mm drying agent	Plastic bottle for solids	1 kg	83001.290
Silica gel, granules, Chameleon® C 1 - 3 mm drying agent	Bucket (plastic)	5 kg	83001.360
Silica gel, granules, Chameleon® C 1 - 3 mm drying agent	Plastic bottle for solids	500 g	83001.260

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 to 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	Pack type	Pk Info	Pk	Cat. No.
Silica gel, granules, Chameleon® C 2 - 6 mm drying agent in sachets	Sachets	500x5 g	500	87185.2500



PASTEUR PIPETTES

Soda-lime glass, disposable.

- Non sterile
- Automated manufacturing process ensures total production uniformity
- 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	150	250	612-1701
Non plugged	2	230	250	612-1702
Non plugged, sealed tip, breakable	2	230	250	612-3850
Non plugged, sealed tip, breakable	2	270	250	612-3860
Pre-plugged	2	150	250	612-1798
Pre-plugged	2	230	250	612-1799
Pre-plugged, sealed tip, breakable	2	230	250	612-3849
Pre-plugged, sealed tip, breakable	2	270	250	612-3861



PIPETTE BULBS

Natural latex.

- For Pasteur pipettes, small pipettes and medical drop counters

Capacity: 1 to 2 ml

Length: 38/57 mm

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



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



WEIGHING BOTTLES

Borosilicate 3.3 glass, low form.

- Interchangeable knobbed lid with ground joint
- White labelling area
- Resistant to chemicals and thermal shock

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



GLASS BEADS

Soda-lime glass, solid.

- Not suitable for heat applications
- Available in sizes from 1 to 10 mm

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



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 WITH RIM

FIOLAX®, neutral glass.

- Very good chemical resistance
- Relatively resistant to 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.

Length (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
40	8	0,8 - 1,0	250	212-0011
70	10	0,8 - 1,0	250	212-0012
75	12	0,8 - 1,0	250	212-0013
100	10	0,8 - 1,0	250	212-0014
100	12	0,8 - 1,0	250	212-0015
100	14	0,8 - 1,0	250	212-0017
100	16	0,8 - 1,0	250	212-0016
130	14	0,8 - 1,0	250	212-0018
160	16	0,8 - 1,0	250	212-0019
180	18	0,8 - 1,0	250	212-0020



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	1.000	212-0464
75	12	0,5 - 0,6	1.000	212-0465
100	12	0,5 - 0,6	1.000	212-0466
100	13	0,5 - 0,6	1.000	212-0467
100	14	0,5 - 0,6	1.000	212-0468
100	16	0,6 - 0,7	1.000	212-0469
125	16	0,6 - 0,7	1.000	212-0471
150	16	0,6 - 0,7	1.000	212-0472
160	16	0,6 - 0,7	1.000	212-0473



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

Note: Caps are not autoclavable.

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

VWR® volumetric glassware

VWR Collection 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 allow a faster outflow than class A products with a waiting time of 15 seconds. Both class A and AS products are delivered with a batch certificate that shows the mean value of the tested production batch. They cannot be delivered with a individual certificate.

Class B: The accuracy of class B measuring instruments is approximately half the accuracy of class A/AS. These products are ideal for educational use. Class B products are not delivered with a 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 of your VWR Collection 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 $\frac{3}{4}$ filled with liquid



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

DIN 12680

Batch number and batch certificate included.



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

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

DIN EN ISO 4788

Batch certificate included.



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 B, low form.

- Hexagonal glass base, with spout
- High contrast 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 white stopper
- Marks in white and inscriptions in blue enamel
- Calibrated to contain (TC, In)

DIN EN ISO 1042

Batch number and batch certificate included.



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.

- White PE stopper
- Marks and inscriptions in white enamel
- Calibrated to contain (TC, In)

DIN EN ISO 1042

Batch number and batch certificate included.



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

AR-Glas®

- Calibrated to deliver (TD)
- Ring mark and inscriptions in high contrast amber stain
- Not available with individual certificate

DIN EN ISO 648

Dated batch identification and batch certificate included.



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

AR-Glas®

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

DIN EN ISO 648

Dated batch identification and batch certificate.



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 B

AR-Glas®

- 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

GRADUATED PIPETTES, TYPE 3, CLASS AS

AR-Glas®

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

DIN 12696, ISO 835

Includes a lot certificate.

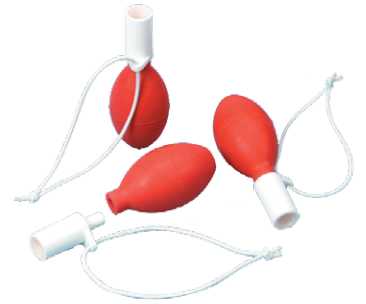


Capacity (ml)	Division (ml)	Tolerance (± ml)	Pk	Cat. No.
0,5	0,01	0,0075	3	612-4767
1	0,01	0,01	3	612-4768
2	0,02	0,015	3	612-4769
5	0,1	0,045	3	612-4770
10	0,1	0,075	3	612-4771
20	0,1	0,15	2	612-4772
25	0,1	0,15	2	612-4773
50	0,2	0,3	2	612-4774

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



SAFETY PIPETTE FILLERS, STANDARD/UNIVERSAL/FLIP

Natural rubber.

- For measuring and for 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 is 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, 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 giving maximum safety during serial pipetting.

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 0,45 µm	5	612-3678
Replacement filter set 0,2 µm	5	612-3681
Replacement silicone pipette holder	1	612-3679



solutions for every day use

VWR®
Lab bric-a-brac

- Storage and organisation
- Transportation
- Recording and labelling
- Lighting
- Other handy stuff





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 3 seconds on its fastest setting
- Autoclavable silicone pipette holder
- Replaceable hydrophobic membrane filter protects the unit against liquid influx and samples against contamination
- Environmentally friendly, rechargeable NiMH battery allows continuous usage for 4 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 requiring 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.

Supplied with charger, two spare hydrophobic filters (1x0,45 µm, 1x0,2 µm), bench stand/wall bracket and a coloured nose cone set.

Description	Pk	Cat. No.
Pipette controller Powerpette <i>Pro</i> , universal charger	1	612-4552

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

JOSEPH PAPER, GRADE 551

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

Thickness: 0,07 mm

Weight: 25 g/m²



Description	LxW (mm)	Pk	Cat. No.
Plain	350x500	500	111-5005
Plain	350x500	800	111-5007
Folded	350x500	40	111-5009
Folded	350x500	500	111-5006

Setting science in motion to create a better world



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