

Glassware solutions from Avantor

01. NON VOLUMETRIC
GLASSWARE

02. VOLUMETRIC
GLASSWARE

03. PIPETTE FILLERS &
CONTROLLERS

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Glassware solutions from Avantor

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® 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



Principles of using VWR® borosilicate 3.3 glassware

1. Cleaning:

VWR® laboratory glassware made from borosilicate 3.3 glass can be cleaned either manually or in a laboratory dish washer using usual cleaning and disinfecting agents. It is recommended to wash the glass before the first use. VWR® laboratory glassware which came into contact with infectious substances should be cleaned and sterilized with hot air or steam. In this way, burning-on of impurities and damaging of glass by possibly adhered chemicals is prevented.

A) Manual cleaning:

- Laboratory glassware should be wiped and washed with a cloth or a sponge using a cleaning solution.
- Do not use abrasive washing agents as they can scratch the glass.
- Avoid extended exposition to alkaline media at temperatures above 70 °C as printing can be destroyed.

B) Washing in dish washers:

- Washing of laboratory glassware in dish washers is more considerate than manual cleaning. The glass is getting into contact with a cleaning solution for a relatively short time only during the phase of rinsing when the solution is sprayed on the glass surface.
- When inserting the glassware into a dish washer care should be taken to prevent mutual impacts.

2. Safety instructions for users:

- Never expose VWR® laboratory glassware to sudden changes in temperature. Prevent taking hot glassware out of a drier and putting it on a cold or wet laboratory table. The warning is particularly applicable to thick-walled glassware such as heavy-walled beakers or Erlenmeyers, suction flasks and desiccators.
- Before each evacuation or pressure stress of glass vessels, make a visual inspection of a faultless state (for heavy scratches, impacts, etc.). Damaged glass vessels must not be used for applications under pressure or vacuum.
- VWR® laboratory glassware under pressure or vacuum should be handled with care (e.g. suction flasks or desiccators).
- Do not expose VWR® laboratory glassware to sudden changes in pressure.
- To prevent developing stress in the glass do not heat up glass vessels under vacuum or pressure from one side or with an open flame.
- The VWR® laboratory glassware with flat bottom (e.g. Erlenmeyer flasks, bottles or beakers) should not be exposed to pressure stress.

VWR® laboratory bottles

VWR® laboratory bottles are made from borosilicate glass 3.3, featuring excellent chemical properties and a high thermal resistance. They are chemically resistant and stable. After completion with a plastic pouring ring, they enable liquids to be easily poured out. All bottles of a volume 100 ml and higher have the same GL 45 thread size, the screw caps can be mutually interchanged. The bottle, pouring ring and the screw cap can be sterilized.

Handling instructions:

a) Freezing of substances

- Freeze the bottle in a skew position (about 45 °) and filled up to max. 3/4 (volume expansion).
- Temperature limit: –40 °C as plastic lids and pouring rings do not resist to lower temperatures.

b) Thawing of substances

- Thawing of a frozen material can be carried out by submerging the bottle into a liquid bath (temperature difference should not exceed 100 °C). The frozen material will thus be heated up uniformly from all sides and the bottle will not be damaged. Thawing should also be accomplished slowly from the top so that the surface is first liquefied and the material can expand.

c) Sterilization

- During sterilization, the screw cap should only lightly be fitted on the bottle (screwed with max. one rotation). Pressures are not equalized when the bottle is closed means the pressure difference created in this way can lead to a breakage of the bottle.

d) Pressure resistance

- VWR® laboratory bottles are not suitable for applications under pressure or vacuum.

Disclaimer: VWR® wants to state that these specifications can only be regarded as general information and will not discharge the user from his obligation to ensure the product is suitable for the intended use - if there's any doubt ask us.

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, 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

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

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, COATED

Made from clear borosilicate 3.3 glass, with transparent, long life plastic coating. The coating protects the bottle from scratches, splinters and leaking liquids.

- Very good chemical resistance
- High temperature resistance and high resistance to temperature changes
- Autoclavable at 121 or 134 °C
- Delivered with mounted pouring ring and blue PP screw cap



Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
100	GL 45	56	100	1	215-4261
250	GL 45	70	138	1	215-4262
500	GL 45	86	176	1	215-4263
1000	GL 45	101	225	1	215-4264
2000	GL 45	136	260	1	215-4265
5000	GL 45	181	330	1	215-4266

LABORATORY BOTTLES, COATED

Made from amber borosilicate 3.3 glass, with transparent, long life plastic coating. The coating protects the bottle from scratches, splinters and leaking liquids.

- Very good chemical resistance
- High temperature resistance and high resistance to temperature changes
- Amber coloured, ideal for use with light-sensitive liquids
- Autoclavable at 121 or 134 °C
- Delivered with mounted pouring ring and blue PP screw cap



The economical alternative for a wide range of laboratory applications. Purely external application of the colour ensures unchanged glass properties on the inner surface of the bottles.

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
100	GL 45	56	100	1	215-4267
250	GL 45	70	138	1	215-4268
500	GL 45	86	176	1	215-4269
1000	GL 45	101	225	1	215-4270
2000	GL 45	136	260	1	215-4271
5000	GL 45	181	330	1	215-4272

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



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.

In compliance with DIN ISO 4796-1 standards. Supplied with screw cap and pouring ring. The bottles are packed in shrink-wrapped modules.

Capacity (ml)	Thread (	WxDxH (mm)	Colour	Description	Pk	Cat. No.
Clear glass						
500	GL 80	94x94x139	Clear	With PP screw cap	1	215-3743
1000	GL 80	105x105x185	Clear	With PP screw cap	1	215-3744
2000	GL 80	115x115x258	Clear	With PP screw cap	1	215-3745
5000	GL 80	160x160x357	Clear	With PP screw cap	1	215-3746
Amber glass						
500	GL 80	94x94x139	Amber	With LDPE screw cap	1	215-3747
1000	GL 80	105x105x185	Amber	With LDPE screw cap	1	215-3748
2000	GL 80	115x115x258	Amber	With LDPE screw cap	1	215-3749
5000	GL 80	160x160x357	Amber	With LDPE screw cap	1	215-3773



REAGENT BOTTLES, NARROW NECK

Made from clear or amber soda-lime glass. Ideal for sampling, storage, transporting liquids, or other applications that do not involve high thermal stress.

- Good chemical and physical properties
- Clear or amber glass, delivered with black PP screw cap
- Amber glass bottles ideal for use with light-sensitive liquids

Bottles can be sterilised but the temperature difference (ΔK) must not exceed 40 °C.

Thread in accordance with DIN 168.

Capacity (ml)	Thread (	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
Clear glass					
30	GL 18	34	74	143	215-4365
50	GL 18	37	97	120	215-4366
100	GL 22	45	117	72	215-4367
250	GL 22	62	149	42	215-4368
500	GL 25	76	184	35	215-4369
1000	GL 28	98	218	20	215-4370
Amber glass					
100	GL 22	45	117	56	215-4371
150	GL 22	37	132	56	215-4372
200	GL 22	57	143	63	215-4373
250	GL 22	62	149	42	215-4374
500	GL 25	76	184	35	215-4375
1000	GL 28	98	218	20	215-4376
2500	GL 45	139	285	11	215-4377



REAGENT BOTTLES, WIDE NECK

Made from clear or amber soda-lime glass. Ideal for sampling, storage of powders or liquids, or other applications that do not involve high thermal stress.

- Good chemical and physical properties
- Clear or amber glass, delivered with black PP screw cap
- Amber glass bottles ideal for use with light-sensitive liquids

Bottles can be sterilised but the temperature difference (ΔK) must not exceed 40 °C.

Thread in accordance with DIN 168.

Capacity (ml)	Thread	Ø ext. (mm)	Height (mm)	Colour	Pk	Cat. No.
Clear glass						
25	GL 28	36	57		120	215-4378
30	GL 32	36	68		126	215-4379
50	GL 32	44	75		85	215-4380
50	GL 40	44	69,5		125	215-4381
100	GL 40	50	92,5		63	215-4382
125	GL 40	54	98		80	215-4383
150	GL 45	57	104		42	215-4384
200	GL 55	63	109		56	215-4385
250	GL 55	69	113		48	215-4386
500	GL 55	84	154		20	215-4387
1000	GL 68	103,2	180,5		18	215-4388
Amber glass						
25	GL 28	36	57	Amber	126	215-4389
30	GL 32	36	68	Amber	126	215-4390
50	GL 32	44	75	Amber	85	215-4391
50	GL 40	44	69,5	Amber	105	215-4392
75	GL 40	48,5	79	Amber	99	215-4393
100	GL 40	50	92,5	Amber	56	215-4394
125	GL 40	54	98	Amber	84	215-4395
150	GL 45	57	104	Amber	48	215-4396
200	GL 55	63	109	Amber	35	215-4397
250	GL 55	69	113	Amber	30	215-4398
300	GL 55	70	127	Amber	42	215-4399
500	GL 55	84	154	Amber	20	215-4400
1000	GL 68	103,2	180,5	Amber	12	215-4401
2500	GL 80	138	281,5	Amber	11	215-4402



REAGENT BOTTLES WITH PP 28 THREAD

Made from clear or amber soda-lime glass. Ideal for sampling, storage, transporting liquids, or other applications that do not involve high thermal stress.

- Good chemical and physical properties
- Clear or amber glass
- Amber glass bottles ideal for use with light-sensitive liquids

Bottles can be sterilised but the temperature difference (ΔK) must not exceed 40 °C.

Supplied without caps, screw caps must be ordered separately.

Capacity (ml)	Thread)	Ø ext. (mm)	Height (mm)	Pk	Cat. No.
Clear glass					
30	PP 28	34,2	69	143	215-4403
50	PP 28	40,5	81	99	215-4404
100	PP 28	50,5	96,5	88	215-4405
200	PP 28	62,5	119,5	63	215-4406
250	PP 28	65	133	51	215-4407
500	PP 28	82	161	33	215-4408
1000	PP 28	100,5	206,2	14	215-4409
Amber glass					
30	PP 28	34,2	69	100	215-4410
50	PP 28	40,5	81	99	215-4411
60	PP 28	38,6	82,7	80	215-4412
100	PP 28	50,5	96	56	215-4413
150	PP 28	56,7	111	48	215-4414
200	PP 28	62,5	119,5	49	215-4415
250	PP 28	65	133	39	215-4416
500	PP 28	82	161	20	215-4417
1000	PP 28	100,5	106,2	14	215-4418

Description	Pk	Cat. No.
Screw caps for reagent bottles with PP 28 thread		
Screw cap, PP, black with foam insert	25	215-4458
Screw cap, PP, white with foam insert	25	215-4459

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

BOTTLE CARRIERS

These bottle carriers are made from polyamide coated stainless steel.

- Very good chemical and temperature resistance
- Sturdy carrying handle
- Four non slip feet

Suitable for safe transporting and storage of laboratory bottles.



WxDxH (mm)	For	Compartment size (mm)	Pk	Cat. No.
215x195x300 (±5 mm)	4x 500 ml bottles	90x90	1	215-4208
310x195x300 (±5 mm)	6x 500 ml bottles	90x90	1	215-4209
500x195x300 (±5 mm)	10x 500 ml bottles	90x90	1	215-4224
255x235x300 (±5 mm)	4x 1000 ml bottles	110x110	1	215-4225
370x235x300 (±5 mm)	6x 1000 ml bottles	110x110	1	215-4226
600x235x300 (±5 mm)	10x 1000 ml bottles	110x110	1	215-4227



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 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

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

ERLENMEYER FLASKS WITH FOUR BAFFLES

Borosilicate glass 3.3, with four baffles, GL 45 thread and blue PP GL 45 screw cap.

- High chemical and thermal resistance
- Four equi-distant baffles providing consistent agitation when used with orbital shakers
- Ideal for bacterial culture production
- Complete with blue PP GL 45 screw cap
- Autoclavable at 121 °C

VWR baffled flasks are delivered with a standard GL 45 screw cap which can be replaced with the GL 45 membrane screw cap, with 0,2 µm PTFE membrane from DWK (Cat. No. SCOT291182809) to ensure optimal gas exchange for optimal bacteria growth.



Capacity (ml)	Height (mm)	Ø ext. (mm)	Thread	Pk	Cat. No.
250	130	82	GL 45	1	214-0436
500	165	101	GL 45	1	214-0437
1000	205	129	GL 45	1	214-0438
2000	265	161	GL 45	1	214-0439

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

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

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

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

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

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

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, 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



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



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	15	1	216-0061
50	30	20	1	216-0063
60	35	40	1	216-0065
70	40	50	1	216-0067
80	45	90	1	216-0069
95	55	200	1	216-0071
115	65	380	1	216-0073
140	75	650	1	216-0075
190	90	1600	1	216-0077
230	100	2700	1	216-0079

Ø ext. (mm)	Height (mm)	Capacity (ml)	Pk	Cat. No.
With spout				
40	25	15	1	216-0060
50	30	20	1	216-0062
60	35	40	1	216-0064
70	40	50	1	216-0066
80	45	90	1	216-0068
95	55	200	1	216-0070
115	65	380	1	216-0072
140	75	650	1	216-0074
190	90	1600	1	216-0076
230	100	2700	1	216-0078

VWR® nitrile chemical protective flock-lined gloves

- Superior resistance
- Higher durability and longer wear
- Added comfort

CLICK
HERE



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.

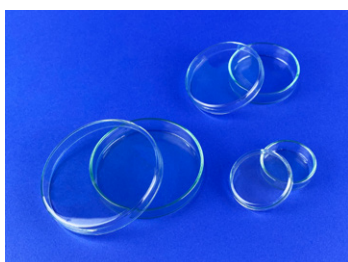
- Very good chemical resistance
- High temperature resistance
- Minimal thermal expansion, giving relatively high resistance to temperature changes
- Autoclavable and sterilisable

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

PETRI DISHES, GLASS

Soda-lime glass, with lid. For use as disposables. These Petri dishes are a green alternative to disposable Petri dishes made from plastic.

- Good chemical resistance
- Heatable up to 60 °C
- Not suitable for applications related to strong heat or rapid temperature changes
- Ideal for bacterial culture production



Ø (mm)	Height (mm)	Sterility	Pk	Cat. No.
40	12	Non sterile	40	391-0665
60	15	Non sterile	30	391-0666
70	15	Non sterile	18	391-0652
80	15	Non sterile	36	391-0667
90	15	Non sterile	36	391-0668
100	15	Non sterile	36	391-0669
100	20	Non sterile	36	391-0671
120	20	Non sterile	72	391-0673
150	25	Non sterile	36	391-0674
180	30	Non sterile	9	391-0659
200	30	Non sterile	10	391-0660
200	50	Non sterile	7	391-0661

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



SCINTILLATION VIALS

VWR® scintillation vials are produced from borosilicate 3.3 glass. They are compatible with all scintillation counters.

- High resistance against chemicals and thermal shock
- Low background counts and high ultraviolet transmission
- Delivered in convenient pack sizes

VWR® scintillation vials are ideal for use in liquid scintillation counting, beta/gamma counting or for sample storage.

Screw caps have to be ordered separately and you can choose the right screw cap for your application from our selection of fitting screw caps with the most common liners, which we offer as accessories.

Packed in shrink-wrapped trays in a convenient 250 piece pack size.

Capacity (ml)	Ø×H (mm)	Colour	Cap included	Cap size	Pk	Cat. No.
Vials						
6,00	17×58	Clear	No	15-425	250	215-4488
20,00	28×61	Clear	No	22-400	250	215-4491



Type	Cap size	Pk	Cat. No.
Screw cap, PP, with metal foil/pulp liner	15-425	100	215-4489
Screw cap, UREA, with metal foil/pulp liner	15-425	100	215-4490
Screw cap, PP, with foamed PE liner	22-400	100	215-4492
Screw cap, PP, with metal foil/pulp liner	22-400	100	215-4493
Screw cap, UREA, with PE disc liner	22-400	100	215-4494
Screw cap, UREA, with metal foil/pulp liner	22-400	100	215-4495
Screw cap, UREA, with PE cone liner	22-400	100	215-4496

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



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



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

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

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 47 mm stainless steel screen, 300 ml glass funnel, 47 mm aluminium spring clamp, 47 mm glass base, PTFE gasket and silicone stopper no. 8.

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

FILTERING 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.

ISO 6556



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



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. x H (mm)	Ø int. (mm)	Pk	Cat. No.
With stopcock	100	153x180	92	1	467-0086
With stopcock	150	215x250	143	1	467-0087
With stopcock	200	270x315	192	1	467-0088
With stopcock	250	320x355	239	1	467-0089
With stopcock	300	380x435	285	1	467-0090



DESICCATORS

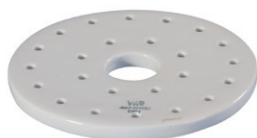
Borosilicate 3.3 glass.

- 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. x H (mm)	Ø int. (mm)	Pk	Cat. No.
Desiccators					
100	65	153x195	92	1	467-0069
150	95	215x265	143	1	467-0070
200	130	270x315	192	1	467-0071
250	140	320x370	239	1	467-0072
300	165	380x445	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

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	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 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	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



RACKS FOR TEST TUBES

These test tube racks are either made from rust-proof, electrolytically polished stainless steel or from polyamide coated steel.

- Very good chemical and temperature resistance
- Polyamide coated racks are heat resistant up to 80 °C
- Robust and stable, easy to clean
- Hole size 18x18 mm

Hole Ø (mm)	No. of holes	WxDxH (mm)	Pk	Cat. No.
Polyamid coated steel				
18	12 (2x6)	130x50x70	1	212-0713
18	18 (3x6)	130x70x70	1	212-0714
18	24 (4x6)	130x90x70	1	212-0715
18	24 (2x12)	250x50x70	1	212-0716
18	36 (3x12)	250x70x70	1	212-0717
18	48 (4x12)	250x90x70	1	212-0718
18	100 (10x10)	210x210x70	1	212-0719
Stainless steel				
18	12 (2x6)	130x50x70	1	212-0720
18	18 (3x6)	130x70x70	1	212-0721
18	24 (4x6)	130x90x70	1	212-0722
18	24 (2x12)	250x50x70	1	212-0723
18	36 (3x12)	250x70x70	1	212-0724
18	48 (4x12)	250x90x70	1	212-0725



CENTRIFUGE TUBES, ASTM

Borosilicate glass 3.3, used for the determination of water and sediments in crude oils according to test method ASTM D 96.

- High chemical and thermal resistance
- High contrast blue enamel graduations
- Withstand forces up to 700 xg

Design, graduations and tolerances meet ASTM (American Society for Testing Materials) specifications.

ASTM D 96

Delivered without cap.

Description	Capacity (ml)	Closure type	ØxL (mm)	Pk	Cat. No.
Centrifuge tube, conical	100	Without cap	17x200	1	525-1568
Centrifuge tube, pear-shaped	100	Without cap	17x200	1	525-1569

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CENTRIFUGE TUBES, SODA-LIME GLASS

Available with round or conical bottom, graduated or non graduated. Not suitable for applications related with strong heat or rapid temperature changes.

- Produced from soda-lime glass tubing
- Withstand forces up to 3000 xg
- Graduations in high contrast blue enamel

Ideal for use as disposables. Can be autoclaved but the temperature difference (ΔK) should not exceed 40 °C.

Description	Capacity (ml)	Ø×L (mm)	Pk	Cat. No.
Conical, non graduated	10	16×100	100	525-1570
Conical, non graduated	15	17×100	100	525-1571
Conical, graduated	10	16×100	10	525-1572
Conical, graduated	15	17×100	10	525-1573
Round, non graduated	10	16×100	100	525-1574
Round, non graduated	15	17×100	100	525-1575
Round, graduated	10	16×100	10	525-1576
Round, graduated	15	17×100	10	525-1577



CENTRIFUGE TUBES, BOROSILICATE GLASS 3.3

Reusable centrifuge tubes made from borosilicate 3.3 glass, available with round or conical bottom, graduated or non graduated.

- Produced from borosilicate 3.3 glass tubing
- Highly resistant against chemicals and rapid temperature changes
- Autoclavable
- Withstand forces up to 3500 xg

Graduations and inscriptions in high contrasting blue enamel. With straight rim.

DIN 58970 (only round bottom tubes).

Description	Capacity (ml)	Ø×L (mm)	Pk	Cat. No.
Round, non-graduated	6	12×100	10	525-1578
Round, non-graduated	12	16×100	10	525-1579
Conical, non-graduated	12	16×100	10	525-1580
Conical, non-graduated	15	17×113	10	525-1581
Conical, graduated	15	17×113	10	525-1582
Round, non-graduated	25	24×100	2	525-1583
Round, non-graduated	50	34×100	2	525-1584
Round, non-graduated	80	44×100	2	525-1585



CENTRIFUGE TUBES, HEAVY WALL, WITH SCREW CAP

Made from borosilicate 3.3 glass, with heavy wall to withstand higher speeds in centrifugation.

- Produced from borosilicate 3.3 glass tubing
- Highly resistant against chemicals and rapid temperature changes
- Autoclavable
- Withstand forces up to 3500 xg
- Thread size 24-410, screw caps included

VWR® heavy wall centrifuge tubes are especially used for separating neutralised sediment for culturing from sputum specimens.

Capacity (ml)	Closure type	Ø×L (mm)	Thickness (mm)	Pk	Cat. No.
35	Screw cap	29×100	1,8	4	525-1587
50	Screw cap	29×123	1,8	4	525-1588



ABSORPTION CUVETTES

High quality cuvettes manufactured from quartz or optical glass for accurate spectrophotometric analysis.

- Fully heat-fused construction
- Two cover types available: Flat lid and stopper
- Matched sets available

Due to the fully heat-fused construction (no intermediate materials or adhesives), and careful annealing to remove any strain, there is no optical or physical distortion of the two optically polished windows. Flat lids and stoppers are made of polytetrafluoroethylene (PTFE). Stoppered cells provide a more suitable seal for volatile liquids. Matched cells exhibit a transmission tolerance within 0,5% at 200 nm (quartz cuvette)/360 nm (optical glass).

Manufactured under ISO 19001:2015. Certificate of Quality is attached with each product.

Packs of two cuvettes are matched sets. For cuvettes used in fluorometers, please refer to 634-1223 series.

Description	Height (mm)	Volume (µl)	Path length (mm)	Window material	Pk	Cat. No.
Flat PTFE lids						
Macro	45	350	1	Quartz glass	1	634-1196
Macro	45	700	2	Quartz glass	1	634-1197
Semi-micro	45	1	10	Quartz glass	1	634-1220
Semi-micro	45	1,4	10	Quartz glass	1	634-1221
Macro	45	1,75	5	Quartz glass	1	634-1198
Macro	45	3,5	10	Quartz glass	1	634-1199
Macro, spectrally matched	45	3,5	10	Quartz glass	2	634-1200
Macro	45	3,5	10	Optical glass	1	634-1205
Macro, spectrally matched	45	3,5	10	Optical glass	2	634-1206
Macro	45	3,5	10	Optical glass	1	634-1216
Macro	45	3,5	10	Quartz glass	1	634-1219
Macro	45	7	20	Quartz glass	1	634-1201
Macro	45	7	20	Optical glass	1	634-1207
Macro	45	7	20	Optical glass	1	634-1217
Semi-micro	45	7	50	Quartz glass	1	634-1222
Macro	45	14	40	Quartz glass	1	634-1202
Macro	45	14	40	Optical glass	1	634-1208
Macro	45	17,5	50	Quartz glass	1	634-1203
Macro	45	17,5	50	Optical glass	1	634-1209
Macro	45	17,5	50	Optical glass	1	634-1218
Macro	45	35	100	Quartz glass	1	634-1204
Macro	45	35	100	Optical glass	1	634-1210
PTFE stoppers						
Macro	52	350	1	Quartz glass	1	634-1211
Macro	52	700	2	Quartz glass	1	634-1212
Macro	45	1,75	5	Quartz glass	1	634-1213
Macro	45	3,5	10	Quartz glass	1	634-1214
Macro	45	7	20	Quartz glass	1	634-1215

CUVETTES FOR FLUORESCENCE MEASUREMENTS

Standard rectangular macro cuvettes made from Spectrosil quartz for accurate readings.

- Fully heat-fused construction
- Four polished windows
- Two cover types available: Flat lid and stopper

Due to the fully heat-fused construction (no intermediate materials or adhesives), and careful annealing to remove any strain, there is no optical or physical distortion of the two optically polished windows. Flat lids and stoppers are made of polytetrafluoroethylene (PTFE). Stoppered cells provide a more suitable seal for volatile liquids.

Manufactured under EN ISO19001:2015. Certificate of Quality is attached with each product.

For absorption cuvettes used in spectrophotometers, please refer to 634-1196 series.

Description	Height (mm)	Volume (ml)	Path length (mm)	Window material	Pk	Cat. No.
Flat PTFE lids						
Macro	45	3,5	10	Quartz glass	1	634-1223
Macro	45	7	20	Quartz glass	1	634-1224
PTFE stopper						
Macro	45	3,5	10	Quartz glass	1	634-1225

VWR® volumetric glassware

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 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 ¾ 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

With imprinted 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

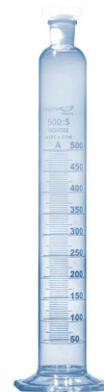
MIXING MEASURING CYLINDERS

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

With imprinted batch number and batch certificate included.



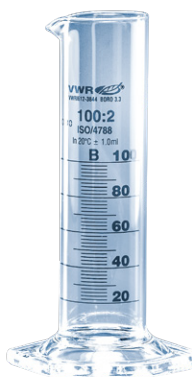
Capacity (ml)	Division (ml)	Height (mm)	Pk	Cat. No.
10	0,2	160	2	612-5771
25	0,5	190	2	612-5772
50	1,0	220	2	612-5773
100	1,0	285	2	612-5774
250	2,0	350	2	612-5775
500	5,0	395	2	612-5776
1000	10,0	500	1	612-5777

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
- Mark and inscriptions in blue enamel
- Calibrated to contain (TC, In)

DIN EN ISO 1042

With imprinted 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

With imprinted batch number and batch certificate included.



VOLUMETRIC FLASKS WITH SINGLE CERTIFICATE

Borosilicate 3.3 glass, with PP stopper. Single certified class A volumetric flasks with imprinted serial number and individual work certificate.

- High chemical and thermal resistance
- Delivered with white PP stopper
- Inscriptions and ring mark in high contrasting blue enamel
- Calibrated to contain (TC, In)
- Imprinted serial number and single certificate included

Made from true bore glass tubing to guarantee exact measurement.

DIN EN ISO 1042. Conformity certified with DE-M mark.



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

Capacity (ml)	NS	Tolerance (± ml)	Pk	Cat. No.
5	10/19	0,040	1	612-6701
10	10/19	0,040	1	612-6702
20	10/19	0,040	1	612-6703
25	10/19	0,040	1	612-6704
50	12/21	0,060	1	612-6705
100	14/23	0,100	1	612-6706
200	14/23	0,150	1	612-6707
250	14/23	0,150	1	612-6708
500	19/26	0,250	1	612-6709
1000	24/29	0,400	1	612-6710
2000	29/32	0,600	1	612-6711

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



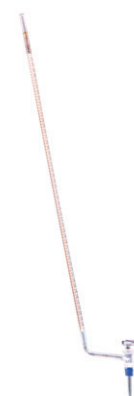
Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,02	500	1	612-4139
25	0,05	0,03	500	1	612-4140
50	0,1	0,05	500	1	612-4141

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, WITH PTFE NEEDLE VALVE STOPCOCK

Borosilicate 3.3 glass, class AS.

- High chemical and thermal resistance
- Schellbach stripe for accurate meniscus reading
- Stopcock with PTFE needle valve
- High contrast blue enamel graduations
- Batch certificate included

To avoid material damaging friction between the burette and the stopcock and to ensure tightness joint, grease is necessary when working with burettes with glass stopcock. After use the joint grease must be removed as the burette tip could become contaminated. This step is not necessary when working with burettes with a PTFE needle valve stopcock.

DIN EN ISO 385



Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,03	313	1	612-6688
25	0,1	0,05	342	1	612-6689
50	0,1	0,05	521	1	612-6690

BURETTES, WITH PTFE KEY STOPCOCK

Borosilicate 3.3 glass, class AS.

- High chemical and thermal resistance
- Schellbach stripe for accurate meniscus reading
- Stopcock with PTFE key
- High contrast blue enamel graduations
- Batch certificate included

To avoid material damaging friction between the burette and the stopcock and to ensure tightness, joint grease is necessary when working with burettes that have a glass stopcock. After use the joint grease must be removed as the burette tip could become contaminated. This step is not necessary when working with burettes with a PTFE key stopcock.

DIN EN ISO 385



Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,03	313	1	612-6691
25	0,1	0,05	342	1	612-6692
50	0,1	0,05	521	1	612-6693

BURETTES, WITH DETACHABLE PTFE STOPCOCK

Borosilicate 3.3 glass, class AS.

- High chemical and thermal resistance
- Schellbach stripe for accurate meniscus reading
- Detachable and interchangeable PTFE stopcock
- High contrast blue enamel graduations
- Batch certificate included

No breakage in case of improper handling because the stopcock is not directly connected with the body of the burette. Fast to dismantle, easy to clean and simple to repair because all individual components are replaceable.

DIN EN ISO 385



Capacity (ml)	Division (ml)	Tolerance (± ml)	Scale length (mm)	Pk	Cat. No.
10	0,05	0,03	313	1	612-6694
25	0,1	0,05	342	1	612-6695
50	0,1	0,05	521	1	612-6696

AUTOMATIC BURETTES ACCORDING TO DR. SCHILLING

Borosilicate 3.3 glass, class B.

- Schellbach stripe for accurate meniscus reading
- High contrast blue enamel graduations
- Complete with 1000 ml plastic bottle, plastic clamp, plastic stand and PTFE pipe
- Automatic zeroing, squeezing bottle allows rapid filling

Mainly used in chemical laboratories to measure small volumes of liquid in titration. The built-in overflow automatically drains excess liquid back to the reservoir bottle.

DIN EN ISO 385, error limits according to class B.



Capacity (ml)	Division (ml)	Tolerance (± ml)	Length (mm)	Pk	Cat. No.
10	0,05	0,02	800	1	612-6697
25	0,1	0,03	800	1	612-6699
50	0,1	0,05	800	1	612-6700

BULB PIPETTES, ONE MARK, CLASS AS

Borosilicate 9.1 glass

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

DIN EN ISO 648

With imprinted batch number and batch certificate included.



BULB PIPETTES, ONE MARK, CLASS AS, WITH SINGLE CERTIFICATE

Borosilicate 9.1 glass. Single certified class AS bulb pipettes with one mark, imprinted serial number and individual work certificate.

- Calibrated to deliver (TD, Ex)
- Inscriptions and ring mark in high contrasting amber
- Imprinted serial number, single certificate included

Made from true bore glass tubing to guarantee exact measurement at each measuring point. Colour coded and conformity certified with DE-M mark.

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

Capacity (ml)	Tolerance (± ml)	Length (mm)	Pk	Cat. No.
1	0,007	300	1	612-6712
2	0,010	330	1	612-6713
3	0,010	350	1	612-6714
4	0,015	410	1	612-6715
5	0,015	410	1	612-6716
10	0,020	450	1	612-6717
20	0,030	520	1	612-6718
25	0,030	530	1	612-6719
50	0,050	550	1	612-6720
100	0,080	600	1	612-6721

BULB PIPETTES, TWO MARKS, CLASS AS

Borosilicate 9.1 glass.

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

DIN EN ISO 648

With imprinted batch number and batch certificate included..



GRADUATED PIPETTES, TYPE 3, CLASS B

Borosilicate 9.1 glass.

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

DIN 12696



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

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**

Borosilicate 9.1 glass.

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

DIN 12696, ISO 835

With imprinted batch number and batch certificate included.

**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

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

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



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 (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 <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



LAB DRYING RACK

Versatile rack made of durable, easy to clean PS.

- Channels designed for more useful configurations
- Use on counter or mount on wall
- Large and small pegs for all glassware varieties
- One of a kind drying basket to collect small items

Designed to protect against breakage

- Peg angle allows for better hold - especially for large, heavy pieces
- Patent pending SureGrip hook securely grips glassware into place
- Holds up to 35 kg

Includes 72 pegs (36 small, green and 36 large, blue), 2 drying baskets (clear), drainage tubing, mounting hardware.

Description	WxDxH (mm)	Pk	Cat. No.
Drying rack			
Drying rack set	441×660×139	1	149-0297

Description	Pk	Cat. No.
Accessories for lab drying rack, VWR®		
Replacement basket, clear	2	149-0298
Replacement pegs, 5 long and 5 short	10	149-0299
Replacement draining set	1	149-0319

LABORATORY MARKERS

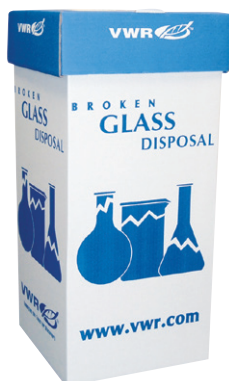


These versatile laboratory markers are designed to write on wet or dry surfaces, and are suitable for industrial, biomedical and educational laboratories.

- Durable tip and generous ink supply ensure a long product life
- Ink dries instantly, allowing immediate handling
- Non sterile
- Made without natural rubber latex

These markers provide permanent marking on plastic disposables. When used on glass, metal or porcelain surfaces, the ink will not smear when subjected to water, and can be washed off these surfaces using various solvents, allowing repeated marking.

Description	Colour	Pk	Cat. No.
Laboratory markers, fine tip	Black	10	811-0065
Laboratory markers, fine tip	Blue	10	811-0066
Laboratory markers, fine tip	Red	10	811-0067
Laboratory markers, fine tip	Green	10	811-0068



BOXES FOR BROKEN GLASS

Corrugated cardboard with PE pouch, 50 µm thick.

- Folded flat for space-saving storage
- A flap is built into the lid for easy filling
- The internal safety lid is closed for removal of the container

Ideal for collecting, transporting and removing broken glass from the laboratory. Consists of a sturdy box made of strong corrugated cardboard, and a PE insertion pouch which prevents any possible escape of fluids adhering to broken glass.

Does not qualify as a DOT container.

Delivered unassembled. Assembly takes a few seconds.

Description	WxDxH (mm)	Pk	Cat. No.
Floor standing box, max. weight: 18 kg	305×305×685	6	119-0036
Bench standing box, max. weight: 5,5 kg	203×203×254	6	119-0037
Bench**	203×203×254	6	56617-804

Description	For	Colour	Pk	Cat. No.
Accessories for boxes for broken glass				
Carton cover with bag holder	Glass disposal carton	Blue	1	VWRU89088-054



CLEANING BRUSHES FOR CONICAL VESSELS

Natural black bristles, plastic handle. These cleaning brushes are specially designed for cleaning conical laboratory equipment such as conical measuring cylinders and funnels.

- Conically-tapered bristles with rounded tips and two protruding tufts ensure gentle, thorough cleaning
- Ergonomic handle
- Plastic handle with hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	150 mm	56 mm	Plastic	330	1	149-0104



CLEANING BRUSHES FOR BALLOON FLASKS

Black nylon, wooden handle. These cleaning brushes are specially designed for cleaning balloon flasks and carboys.

- Swivelling brush section for easy cleaning of bottoms and corners
- For cleaning the upper inside shoulder of balloon flasks and carboys
- Wooden handle with hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Nylon	200 mm	50 mm	Wood	550	1	149-0105



CLEANING BRUSH FOR FLASKS AND BOTTLES

Ideal for cleaning flasks and bottles. Natural white bristles with plastic handle.

- Flexible, pivoting plastic handle enables all the curved surfaces of flasks and bottles to be thoroughly cleaned
- Autoclavable
- Extra wide handle for a secure, comfortable grip

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	100 mm	38 mm	Plastic	400	5	149-0106



CLEANING BRUSHES FOR FLASKS AND BOTTLES, WITH FLEXIBLE HANDLE

Brushes with natural white bristles and flexible plastic handle. Ideal for cleaning Erlenmeyer flasks, round and flat bottom flasks, Kjeldahl flasks, pear-shaped flasks, reagent or measuring flasks and bottles.

- Angled handle passes easily through the neck of bottles and flasks
- Flexible, pliable brush head adapts to the shape of the container to be cleaned
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	89 mm	35 mm	Plastic	300	5	149-0108
Natural bristles	100 mm	38 mm	Plastic	350	5	149-0109
Natural bristles	125 mm	44 mm	Plastic	430	5	149-0110



CLEANING BRUSHES FOR GLASS BEAKERS

Natural black bristles with wooden handle. Inexpensive brushes for cleaning glass beakers and a wide range of other wide necked laboratory utensils.

- Chemical resistant bristles
- Long wooden handle
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	150 mm	75 mm	Wood	410	1	149-0133
Natural bristles	139 mm	82 mm	Wood	330	1	149-0132

Detergents and cleaning agents, LABWASH® Premium

VWR
(BDH) CHEMICALS

A more concentrated version of the LABWASH® range.

- Residue-free laboratory glassware cleaning
- Excellent cleaning power at low dosage levels
- NTA-free (no Nitrilotriacetic acid)
- Protects the environment, active ingredients are biodegradable
- Acid rinse concentrates available to neutralise alkaline cleaners



42466-EN



CLEANING BRUSHES FOR GLASS BEAKERS

Brushes with white nylon bristles and wooden handle. Ideal for intensive, extra-thorough cleaning of glass beakers and a wide range of other wide necked laboratory utensils.

- Chemical resistant bristles
- Strong tufts at the brush tip reduce the risk of scratching and improve cleaning intensity
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Nylon	150 mm	60 - 73 mm	Wood	410	1	149-0134

CLEANING BRUSHES FOR GLASS BEAKERS, AUTOCLAVABLE

Brushes with white nylon bristles and plastic handle. Ideal for cleaning glass beakers and other cylindrical laboratory utensils.

- Durable and tough
- Autoclavable

FDA and USDA approved.



Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Nylon	150 mm	75 mm	Plastic	400	1	149-0135

CLEANING BRUSHES FOR BOTTLES

Natural black bristles with wire handle.

- Rounded tip for gentle, thorough cleaning
- Handle with safety ribbing for a firm grip when cleaning glass equipment
- Hanging loop



Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	91 mm	35 mm	Wire	280	5	149-0138

CLEANING BRUSHES FOR GAS WASHING BOTTLES AND CYLINDERS

These cleaning brushes are specially designed for cleaning gas washing bottles, cylinders and large test tubes.

- Tied tip to reduce the danger of scratching and improve cleaning intensity
- Wire handle for secure grip
- Hanging loop



Description	Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Brush, white	Nylon	100 mm	41 mm	Wire	280	3	149-0224
Brush, black	Nylon	150 mm	60 mm	Wire	500	3	149-0202
Brush, white	Natural bristles	112 mm	44 mm	Wire	280	3	149-0223

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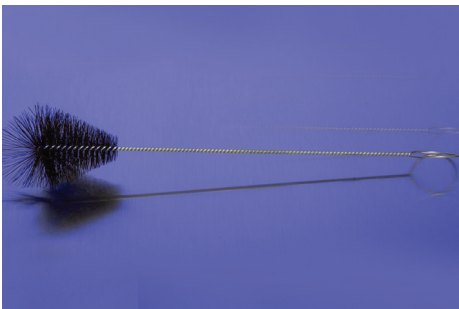
CLEANING BRUSHES FOR FLASKS AND BOTTLES, DOUBLE-TUFTED END



Natural black bristles with wire handle.

- Specially designed brush folds flat as it enters the glassware, then opens to reach across flask and bottle bottoms for very effective cleaning

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	106 mm	38 mm	Wire	300	3	149-0204



CLEANING BRUSHES FOR BOTTLES

Black bristles with wire handle. The special design enables bottles to be cleaned thoroughly and effectively.

- Bristles flatten together and spread out again when they have passed through the bottle neck
- Double-tied tip minimises risk of scratching and improves cleaning intensity
- Hanging loop

Description	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
For 25 ml bottles	44 mm	44 mm	Wire	230	3	149-0205
For 50 ml bottles	44 mm	14 - 53 mm	Wire	230	3	149-0206
For 100 ml bottles	60 mm	38 mm	Wire	300	3	149-0207

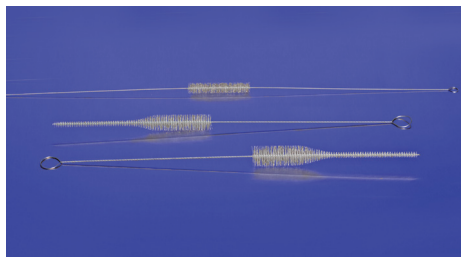


CLEANING BRUSHES FOR TEST TUBES

White or natural bristles. Ideal for cleaning test tubes and a wide range of other laboratory utensils.

- One or two tip ties minimise risk of scratching and improve cleaning intensity
- Wire handle for secure grip
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	75 mm	13 mm	Wire	200	5	149-0218
Natural bristles	81 mm	19 mm	Wire	230	5	149-0213
Natural bristles	100 mm	35 mm	Wire	250	5	149-0214
Nylon	75 mm	11 mm	Wire	230	5	149-0208
Nylon	78 mm	13 mm	Wire	200	5	149-0219
Nylon	81 mm	19 mm	Wire	230	5	149-0220
Nylon	100 mm	35 mm	Wire	250	5	149-0221

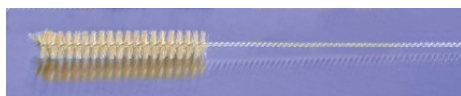


CLEANING BRUSHES FOR PIPETTES

Brushes with white nylon bristles with wire handle. Ideal for cleaning volumetric, milk and Mohr pipettes.

- Soft nylon bristles for gentle, thorough cleaning
- Long wire handle for secure grip
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Nylon	190 mm	5 - 19 mm	Wood	430	5	149-0210
Nylon	190 mm	5 - 23 mm	Wood	430	5	149-0211
Nylon	75 mm	13 mm	Wood	600	5	149-0228

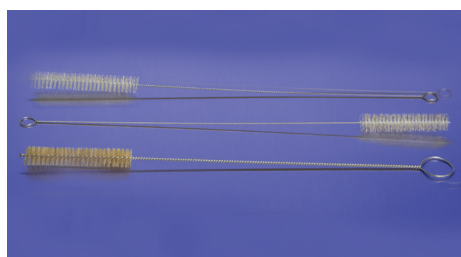


CLEANING BRUSH FOR BURETTES

Brushes with natural white bristles and wire handle. Ideal for cleaning burettes, pipettes and long tubing.

- Long, flexible handle
- Fan tip prevents scratching
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Natural bristles	131 mm	32 mm	Wire	900	5	149-0215



CLEANING BRUSHES FOR SMALL VESSELS

Brushes with white nylon or natural bristles and wire handle. Ideal for cleaning reagent flasks, burettes, pipettes, tubes and a wide variety of other laboratory items with small diameters.

- Available with white nylon or natural bristles
- Wire handle for secure grip
- Hanging loop

Bristle material	Brush head length	Brush head Ø	Handle material	Total length (mm)	Pk	Cat. No.
Nylon	63 mm	13 mm	Wire	300	5	149-0216
Nylon	75 mm	13 mm	Wire	300	5	149-0217
Natural bristles	75 mm	13 mm	Wire	300	5	149-0222



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	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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AUSTRIA

VWR International GmbH
Graumannsgasse 7
1150 Wien
Tel.: +43 1 97 002 0
info.at@vwr.com

BELGIUM

VWR International bv
Researchpark Haasrode 2020
Geldenaaksebaan 464
3001 Leuven
Tel.: +32 (0) 16 385 011
vwr.be@vwr.com

CZECH REPUBLIC

VWR International s. r. o.
Veetee Business Park
Pražská 442
CZ - 281 67 Stříbrná Kalice
Tel.: +420 321 570 321
info.cz@vwr.com

DENMARK

VWR International A/S
Tobaksvejen 21
2860 Søborg
Tel.: +45 43 86 87 88
info.dk@vwr.com

FINLAND

VWR International Oy
Valimotie 17-19
00380 Helsinki
Tel.: +358 (0) 9 80 45 51
info.fi@vwr.com

FRANCE

VWR International S.A.S.
Immeuble Estréo
1-3 rue d'Aurion
93114 Rosny-sous-Bois cedex
Tel.: 0 825 02 30 30* (national)
Tel.: +33 (0) 1 45 14 85 00 (international)
info.fr@vwr.com
* 0,18 € TTC/min + prix appel

GERMANY

VWR International GmbH
Hilpertstraße 20a
D - 64295 Darmstadt
Tel.: 0800 702 00 07* (national)
Tel.: +49 (0) 6151 3972 0 (international)
info.de@vwr.com
*Freecall

HUNGARY

VWR International Kft.
Simon László u. 4.
4034 Debrecen
Tel.: +36 52 521130
info.hu@vwr.com

IRELAND

VWR International Ltd
Orion Business Campus
Northwest Business Park
Ballycoolin
Dublin 15
Tel.: +353 (0) 1 88 22 222
sales.ie@vwr.com

ITALY

VWR International S.r.l.
Via San Giusto 85
20153 Milano (MI)
Tel.: +39 02 3320311
info.it@vwr.com

THE NETHERLANDS

VWR International B.V.
Postbus 8198
1005 AD Amsterdam
Tel.: +31 (0) 20 4808 400
info.nl@vwr.com

NORWAY

VWR International AS
Brynsalleen 4,
0667 Oslo
Tel.: +47 22 90 00 00
info.no@vwr.com

POLAND

VWR International Sp. z o.o.
Limbowa 5
80-175 Gdansk
Tel.: +48 58 32 38 200
info.pl@vwr.com

PORTUGAL

VWR International –
Mat. de Laboratório, Soc. Unipessoal,
Lda
Edifício Ramazzotti
Avenida do Forte 6, P-1.09 e P-1.10
2790-072 Carnaxide
Tel.: +351 21 3600 770
Info.pt@vwr.com

SPAIN

VWR International EuroLab S.L.U.
C/ Tecnología 5-17
A-7 Llinars Park
08450 - Llinars del Vallès
Barcelona
Tel.: +34 902 222 897
info.es@vwr.com

SWEDEN

VWR International AB
Fagerstagatan 18b
163 94 Stockholm
Tel.: +46 (0) 8 621 34 20
kundservice.se@vwr.com

SWITZERLAND

VWR International GmbH
Lerzenstrasse 16/18
8953 Dietikon
Tel.: +41 (0) 44 745 13 13
info.ch@vwr.com

UK

VWR International Ltd
Customer Service Centre
Hunter Boulevard - Magna Park
Lutterworth
Leicestershire
LE17 4XN
Tel.: +44 (0) 800 22 33 44
uksales@vwr.com

CHINA

VWR (Shanghai) Co., Ltd
Bld.No.1, No.3728 Jinke Rd,
Pudong New District
Shanghai, 201203- China
Tel.: 400 821 8006
info_china@vwr.com

INDIA

VWR Lab Products Private Limited
No.139. BDA Industrial Suburb,
6th Main, Tumkur Road, Peenya Post,
Bangalore, India – 560058
Tel.: +91 80 28078400
vwr_india@vwr.com

KOREA

Avantor Performance Materials
Korea Ltd
2F ACE Gwanggyo Tower I,
Daehak 4ro 17
Yeongtong-gu Suwon, Korea 16226
Tel.: +82 31 645 7256
saleskorea@avantorsciences.com

MIDDLE EAST & AFRICA

VWR International FZ-LLC
Office 203, DSP Lab Complex,
Dubai Science Park,
Dubai, United Arab Emirates
Tel.: +971 4 5573271
Info.mea@vwr.com

SINGAPORE

VWR Singapore Pte Ltd
18 Gul Drive
Singapore 629468
Tel.: +65 6505 0760
sales.sg@vwr.com

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