Alumina crucibles, boats and lids

195 typical sizes: 79 crucibles (0.5 to 1500 ml), 67 boats, 17 boats with lids and 32 lids

Issued 20 October 2026. Size list: 29 September 2026. Typical dimensions; exact dimensions are confirmed in your quotation.

These are the sizes we make, in stock or made quickly. Values are as printed in the industry size tables we work from; each maker differs slightly. Other sizes are made to drawing. Every row links to the quote form with that size filled in.

Grades: 99% and 99.5% Al2O3. Our crucibles are used up to 1,650 °C in air; the grade is confirmed for each part in the quotation.

Arc-shaped crucibles

Capacity in ml; top OD, bottom diameter and height in mm. The rim is wider than the base.

Shape	Capacity (ml)	Top OD	Bottom dia.	Height	Quote
Standard	3	20	16	17	Select size
Standard	4	25	19	18	Select size
Standard	5	26	18	21	Select size
Standard	10	30	20	28	Select size
Standard	15	35	21	30	Select size
Standard	20	38	24	35	Select size
Standard	25	39	24	38	Select size
Standard	30	45	27	39	Select size
Standard	40	46	30	40	Select size
Standard	50	50	30	48	Select size
Standard	70	56	35	56	Select size
Standard	100	61	31	60	Select size
Standard	150	73	43	67	Select size
Standard	200	82	43	70	Select size
Standard	250	90	53	76	Select size
Standard	300	88	53	85	Select size
Standard	500	108	62	108	Select size
Standard	600	100	65	128	Select size
Standard	800	113	62	140	Select size
Standard	1300	135	83	150	Select size
Tall	3	17	11	25	Select size
Tall	4	22	14	24	Select size
Tall	10	28	20	32	Select size
Tall	15	31	21	35	Select size
Tall	20	34	24	39	Select size
Tall	30	37	24	45	Select size

Shape	Capacity (ml)	Top OD	Bottom dia.	Height	Quote
Tall	50	50	30	54	Select size
Tall	120	63	33	73	Select size
Tall	150	67	41	80	Select size
Tall	400	75	56	122	Select size
Tall	500	86	50	140	Select size

Cylindrical crucibles

Capacity in ml; OD and height in mm. Several capacities come in more than one footprint.

Capacity (ml)	OD	Height	Quote
0.5	20	4	Select size
1	11	20	Select size
1.5	13	25	Select size
2	12	39	Select size
2	30	5	Select size
3	16	28	Select size
4	14	44	Select size
5	16	50	Select size
5	28	17	Select size
6	16	56	Select size
6	19	35	Select size
10	19	58	Select size
10	20	50	Select size
10	30	28	Select size
15	23	60	Select size
15	47	13	Select size
20	35	30	Select size
25	28	58	Select size
30	40	35	Select size
40	35	58	Select size
45	35	70	Select size
50	30	100	Select size
60	40	70	Select size
60	50	50	Select size
65	35	100	Select size
75	45	65	Select size
80	60	40	Select size
80	75	27	Select size
85	50	60	Select size

Capacity (ml)	OD	Height	Quote
120	50	80	Select size
120	60	60	Select size
120	90	35	Select size
125	41	137	Select size
130	45	110	Select size
150	50	100	Select size
180	59	87	Select size
200	60	100	Select size
200	100	35	Select size
250	60	120	Select size
300	70	100	Select size
300	80	80	Select size
300	95	60	Select size
400	70	120	Select size
600	100	100	Select size
800	80	200	Select size
800	115	110	Select size
1300	115	155	Select size
1500	125	150	Select size

Boats

Length × width × height in mm, outside.

Shape	Length	Width	Height	Quote
Rectangular	45	8	6	Select size
Rectangular	50	20	10	Select size
Rectangular	50	20	20	Select size
Rectangular	50	25	10	Select size
Rectangular	50	25	35	Select size
Rectangular	50	40	20	Select size
Rectangular	50	50	25	Select size
Rectangular	52	25	23	Select size
Rectangular	60	30	20	Select size
Rectangular	70	12	7	Select size
Rectangular	75	18	14	Select size
Rectangular	75	20	20	Select size
Rectangular	80	10	10	Select size
Rectangular	90	60	20	Select size
Rectangular	90	60	40	Select size

Shape	Length	Width	Height	Quote
Rectangular	90	65	30	Select size
Rectangular	90	90	30	Select size
Rectangular	100	10	10	Select size
Rectangular	100	20	20	Select size
Rectangular	100	30	20	Select size
Rectangular	100	40	20	Select size
Rectangular	100	50	30	Select size
Rectangular	100	100	50	Select size
Rectangular	110	24	17	Select size
Rectangular	120	30	15	Select size
Rectangular	120	60	20	Select size
Rectangular	120	60	40	Select size
Rectangular	120	80	30	Select size
Rectangular	120	80	40	Select size
Rectangular	150	20	20	Select size
Rectangular, perforated	73	30	22	Select size
Rectangular, perforated	100	24	17	Select size
Rectangular, perforated	100	27	27	Select size
Rectangular, perforated	100	43	26	Select size
Rectangular, perforated	100	56	35	Select size
Rectangular, perforated	100	84	35	Select size
Boat-shaped	27	7	6	Select size
Boat-shaped	39	10	6.5	Select size
Boat-shaped	40	10	7	Select size
Boat-shaped	44	11	8	Select size
Boat-shaped	60	11	8	Select size
Boat-shaped	77	13	8	Select size
Boat-shaped	88	15	9	Select size
Boat-shaped	97	17	12	Select size
Boat-shaped	115	30	20	Select size
Half-round bottom	38	34	18	Select size
Half-round bottom	40	25	17	Select size
Half-round bottom	40	35	25	Select size
Half-round bottom	55	35	22	Select size
Half-round bottom	60	54	24	Select size
Half-round bottom	65	25	16	Select size
Half-round bottom	100	20	15	Select size
Half-round bottom	100	20	20	Select size
Half-round bottom	100	30	20	Select size
Half-round bottom	100	40	20	Select size

Shape	Length	Width	Height	Quote
Half-round bottom	100	40	25	Select size
Half-round bottom	100	50	30	Select size
Half-round bottom	100	65	30	Select size
Half-round bottom	250	40	18	Select size
Trapezoid	20	20	17	Select size
Trapezoid	48	24	14	Select size
Trapezoid	60	25	15	Select size
Trapezoid	60	30	15	Select size
Trapezoid	60	35	15	Select size
Trapezoid	80	40	17	Select size
Trapezoid	100	23	15	Select size
Trapezoid	100	77	27	Select size

Boats with lids

Boat length × width × height in mm. The lid is quoted with the boat.

Shape	Length	Width	Height	Quote
Rectangular	50	20	20	Select size
Rectangular	60	30	20	Select size
Rectangular	90	60	20	Select size
Rectangular	90	60	40	Select size
Rectangular	90	65	30	Select size
Rectangular	100	20	20	Select size
Rectangular	100	30	20	Select size
Rectangular	100	40	20	Select size
Rectangular	120	60	20	Select size
Rectangular	120	60	40	Select size
Trapezoid	60	30	15	Select size
Round bottom	60	54	24	Select size
Round bottom	100	20	15	Select size
Round bottom	100	20	20	Select size
Round bottom	100	30	20	Select size
Round bottom	100	40	20	Select size
Round bottom	100	40	25	Select size

Lids

Lids are separate parts and are not paired with a crucible in these tables. Put the crucible and the lid on one request so both are confirmed together.

Flat round lids

Rest on the rim. Diameter and thickness in mm.

Diameter	Thickness	Quote
21	2	Select size
33	3	Select size
51	4	Select size

Outer lids

Fit over the rim: the lid ID must clear the crucible rim OD. mm.

OD	ID	Height	Quote
20	17	4	Select size
30	26	5	Select size
36	33	4	Select size
44	41	5	Select size
46	42	5	Select size
51	47	8	Select size
58	54	5	Select size
66	61	7	Select size
69	63	11	Select size
82	76	11	Select size
89	83	15	Select size
100	93	17	Select size

Inner lids (stepped)

The small step fits inside the rim. mm.

Large OD	Small OD	Step	Height	Quote
12	8.5	2.5	4.5	Select size
14	10	3.5	6	Select size
16	12	4	6.5	Select size
18.5	14.5	2	4	Select size
27	22	2	5	Select size
60	51	2	4	Select size
78	74	0.5	4	Select size
91	82	0.5	3	Select size
100	89	0.5	4.5	Select size

Rectangular lids

For boats. Outer and inner length × width, and height, in mm.

Outer L × W	Inner L × W	Height	Quote
50×20	42×13	3.8	Select size
61×31	52×21	4	Select size
61×55	53×47	3.5	Select size
92×62	82×52	3.2	Select size
100×20	91.5×13	3	Select size
100×30	92×23	3.5	Select size
102×41	92.5×30	3.2	Select size
120×60	110×50	3.8	Select size

What to send for a quotation

Shape and size from these tables, or your drawing, plus any internal depth or diameter that matters. The grade (99% or 99.5% Al2O3) and the lid type if you need one. What goes in it, the peak temperature, the atmosphere and your heating and cooling rates. For an instrument part, the model and the original part reference. Quantity.

Capacities are nominal figures; the source tables do not say whether they are measured to the brim. For an instrument crucible (TGA or DSC), match the instrument maker's requirements as well as the capacity.

For non-standard parts the usual minimum is 100 pieces and typical production time is 25-30 days.

Live crucible, boat and lid tables / How to choose a crucible, lid or boat / Request a quotation