THERMANSYS®

t-ceramics

Advanced Technical Ceramics

HIGH PURITY CRYSTALLIZED ALUMINA CRUCIBLES

99.7% Alumina - Max. Usable Temperature 1750 ˚C

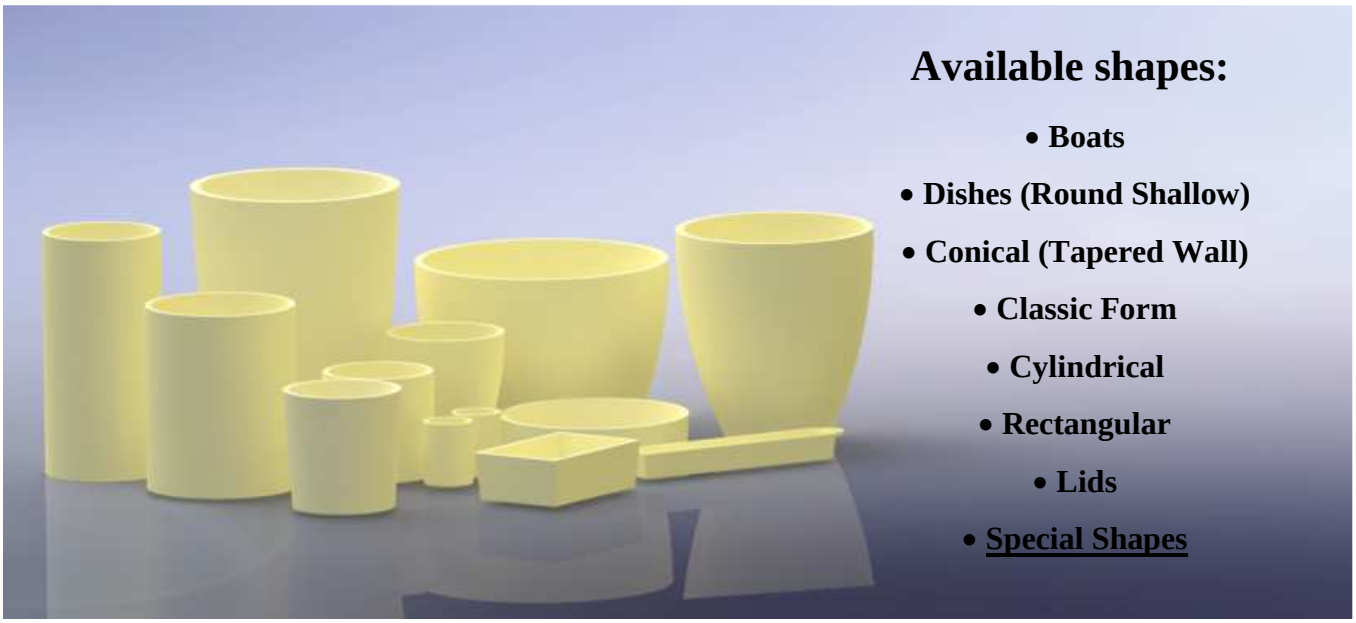
Description.

Alumina (Al2O3) is one of the most important ceramic oxides which is widely used for structural, electronics, medical and electrical fields. Alumina has wide application as engineering technical ceramic due to its high hardness value, high abrasion (wear) resistance and low cost. It has high melting point (2054 °C), and boiling point (2977 °C) low thermal expansion and high compressive strength which provides good thermal shock resistance. Alumina is one the best electrical insulations at high temperatures making it excellent choice as a thermodielectric refractory and is transparent to microwave radio frequencies. It's fairly high chemical stability, make Alumina a good material to withstand chemical corrosion.

Thermansys is producing a broad range of analytical grade, recrystallized, dense Alumina crucibles in various sizes and forms. Custom solutions available upon request.

Applications.

Analytical applications, metals melting, ceramic powders heat treatment, material acid treatment even at elevated temperature, crucibles for annealing, crucibles for fusion processes, crucibles for crystal growing, crucibles for extremely corrosive environments, like plasma etching

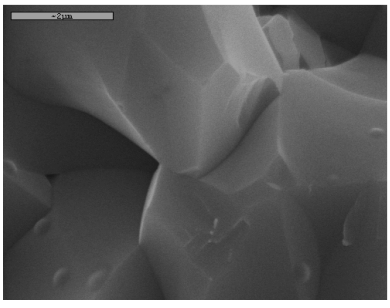


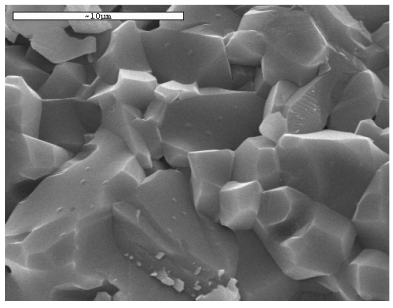
Available shapes:

- **Boats**
- **Dishes (Round Shallow)**
- **Conical (Tapered Wall)**
- **Classic Form**
- **Cylindrical**
- **Rectangular**
- **Lids**
- **Special Shapes**

Chemical Composition.

• Al_2O_3 % wt	99.7
• Fe_2O_3 % wt	0.03
• SiO_2 % wt	0.05
• MgO % wt	-
• Na_2O % wt	0.10
• Other % wt	0.12





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Properties.

• Max. Operating Temperature, ˚C……..	1750	• Dielectric Strength, AC-KV/mm……	16.9
• Porosity, % vol. ……	<0.5	• Dielectric Constant, 1 MHz…….	9.8
• Density, gr/cm^3…….	3.8	• Compressive Strength, MPa……	2600
• Color…….	Ivory	• Flexural Strength, MPa……..……..……	380
• Thermal Conductivity at 20˚C, W/mK….	30	• Elastic Modulus, GPa…….	375
• Thermal Conductivity at 800˚C, W/mK...	8	• Shear Modulus, GPa……...	152
• Coefficient of Thermal Expansion, 10^{-6}/˚C	8.4	• Hardness, kg/mm^2……..	1440

NOTE: ***The values listed on properties table above are intended to illustrate typical material properties. Property values vary with size, and shape of part. The material properties values contained herein should not construed as absolute or engineering data and does not constitute a representation or warranty for which Thermansys assumes legal responsibility.***

Heating and Cooling Suggestions.

Recrystallized Alumina crucibles are sensitive to thermal shock.

Heat up: Warm up the furnace chamber gradually. Heating rate of 3-4 °C per minute is recommended for the first 1-2 hours to reduce the impact of thermal shock. Maximum recommended heating rate 6 °C per minute.

Cool down: Lower the temperature as gradually as possible. Recommended cooling down rate is more severe than corresponding heating rate and should be retained below 5 °C per minute. It is better to remove the crucibles from the hot zone only if the temperature drops below 100 °C. When taking the crucibles out of furnace and bring them into room temperature to pour the melted material try to make the process as gradual as possible. A better practice is after pouring the melted metal to restore the crucible back into the furnace and leave it cool down inside the furnace.

Atmosphere - Chemical Compatibility - Corrosion.

Alumina crucibles can be used at high temperature under oxidizing (air), reduced, or inert (Nitrogen, Argon) conditions with no restriction. It resists attack by all gases except wet Fluorine. Can also be used under vacuum conditions, although exhibit a rate 10^{-7} to 10^{-6} g/cm2.sec of weight loss.

Alumina crucibles have very good chemical resistance against diluted or concentrated Acids (with the exception of hydrofluoric acid and phosphoric acid), Alkalis, Melted Metals and Halogens. Alumina is insoluble in water and has negligible solubility in strong acid and alkaline solutions. The low chemical solubility of alumina ceramics components makes them highly resistant to chemical corrosion. The ultra-high final firing temperature that Alumina crucibles are exposed during manufacturing process improves even further this behavior. The almost zero porosity and excellent smoothness of Thermansys crucibles surface prevents chemical attack. Generally, Alumina crucibles are the material of choice for a wide range of general purpose laboratory and industrial applications.

Chemical erosion of ceramic materials is not easy to be measured and determined in a way that will lead to accurate and represented scientific data for all shapes and sizes.

Health and Safety.

Our ceramic materials, as it is delivered, do not contain substances dangerous to health, or create them during use. They are produced using natural inert raw materials. Any organic binder or other substances used during manufacturing are burned through production firing. Thermansys however cannot guarantee that ceramic crucibles exposed to conditions that could produce residual material or create material transformations retain its health and safety properties upon reuse.

The product at its final delivery form is fully dense and do not produce dust during normal handling and operation. However, if the customer desire to proceed with further product processes like cutting or drilling inert dust might be created. Workers therefor should be provided with suitable dust protection equipment.

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Standard Crucible Delivery Forms and Dimensions Tables.

Tables below are listing dimensions and capacity data for all standard shapes and sizes that are available from Thermansys. All data quoted are nominal values. Dimensional tolerances in the order of ±3% are apply to all our products.

Special shape or size Alumina engineering ceramics are available upon request. Thermansys can provide a detailed quote even for low volume order. Please send as a detailed drawing of the desired product and we will provide you with a quote.

Conical Form

t-ceramics High Alumina Conical Form crucibles are available in three forms:

- Tall Form with *Top I.D. ≅ 0.6 x Internal Height*
- Balanced Form with *Top I.D. ≅ Internal Height*
- Short Form with *Top I.D. ≅ 2 x Internal Height*

Custom sizes available upon request

Conical Tall Form

Capacity (ml)	Top O.D. (mm)	Top I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
0.4	10	8	1	13	**CA-CO-T 0.4**	3.3
1.0	12	10	1	16	**CA-CO-T 1.0**	4.4
1.8	14	12	1	20	**CA-CO-T 1.8**	5.5
4.2	19	16	1.5	26	**CA-CO-T 4.2**	7.7
8.2	23	20	1.5	33	**CA-CO-T 8.2**	10.4
16	28	25	1.5	42	**CA-CO-T 16**	14.1
28	33	30	1.5	50	**CA-CO-T 28**	18.4
48	40	36	2	60	**CA-CO-T 48**	23.9
76	48	42	3	70	**CA-CO-T 76**	29.9
130	56	50	3	84	**CA-CO-T 130**	39.1
196	64	58	3	94	**CA-CO-T 196**	48.1
268	70	64	3	106	**CA-CO-T 268**	56.3
350	76	70	3	116	**CA-CO-T 350**	64.5
488	84	78	3	130	**CA-CO-T 488**	76.4
564	89	82	3.5	136	**CA-CO-T 564**	82.3
750	98	90	4	150	**CA-CO-T 750**	95.2
1024	110	100	5	166	**CA-CO-T 1024**	111.7

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Conical Balanced Form

Capacity (ml)	Top O.D. (mm)	Top I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
0.3	10	8	1	8	**CA-CO-B 0.3**	3.0
0.7	12	10	1	10	**CA-CO-B 0.7**	3.9
1.2	14	12	1	12	**CA-CO-B 1.2**	4.7
2.8	19	16	1.5	16	**CA-CO-B 2.8**	6.5
5.5	23	20	1.5	20	**CA-CO-B 5.5**	8.7
11	28	25	1.5	25	**CA-CO-B 11**	11.6
18	33	30	1.5	30	**CA-CO-B 18**	15.0
32	40	36	2	36	**CA-CO-B 32**	19.5
50	48	42	3	42	**CA-CO-B 50**	24.3
85	56	50	3	50	**CA-CO-B 85**	31.6
133	64	58	3	58	**CA-CO-B 133**	39.6
178	70	64	3	64	**CA-CO-B 178**	45.8
234	76	70	3	70	**CA-CO-B 234**	52.6
299	84	78	3	78	**CA-CO-B 299**	59.5
375	89	82	3.5	82	**CA-CO-B 375**	66.8
496	97	90	3.5	90	**CA-CO-B 496**	77.0
680	108	100	4	100	**CA-CO-B 680**	90.5
906	120	110	5	110	**CA-CO-B 906**	104.9

Conical Short Form

Capacity (ml)	Top O.D. (mm)	Top I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
0.8	19	16	1.5	8	**CA-CO-S 0.8**	4.1
3.0	23	20	1.5	10	**CA-CO-S 3.0**	6.7
5.0	27	24	1.5	12	**CA-CO-S 5.0**	8.3
12	36	32	2	16	**CA-CO-S 12**	12.3
24	46	40	3	20	**CA-CO-S 24**	17.1
46	56	50	3	25	**CA-CO-S 46**	23.4
79	66	60	3	30	**CA-CO-S 79**	30.5
136	78	72	3	36	**CA-CO-S 136**	40.0
216	90	84	3	42	**CA-CO-S 216**	50.5
366	107	100	3.5	50	**CA-CO-S 366**	66.0
571	124	116	4	58	**CA-CO-S 571**	82.8
767	138	128	5	64	**CA-CO-S 767**	96.3
1004	150	140	5	70	**CA-CO-S 1004**	110.5

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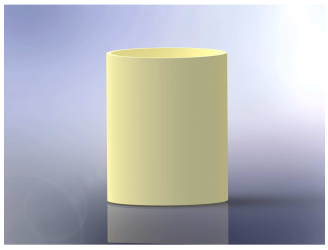
HELLENIC PRODUCT.

Cylindrical Form

t-ceramics High Alumina Cylindrical crucibles are available in three forms:

- Tall Form with *I.D. ≅ 0.6 x Internal Height*
- Balanced Form with *I.D. ≅ Internal Height*
- Short Form with *I.D. ≅ 2 x Internal Height*

Custom sizes available upon request



Cylindrical Tall Form

Capacity (ml)	O.D. (mm)	I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
0.7	10	8	1	13	**CA-CY-T 0.7**	3.8
1.3	12	10	1	17	**CA-CY-T 1.3**	4.9
2.3	14	12	1	20	**CA-CY-T 2.3**	6.1
5.4	19	16	1.5	27	**CA-CY-T 5.4**	9.0
10.5	23	20	1.5	33	**CA-CY-T 10.5**	12.3
20	28	25	1.5	42	**CA-CY-T 20**	17.2
35	33	30	1.5	50	**CA-CY-T 35**	22.7
61	40	36	2	60	**CA-CY-T 61**	30.2
97	48	42	3	70	**CA-CY-T 97**	38.5
164	56	50	3	83	**CA-CY-T 164**	50.9
255	64	58	3	97	**CA-CY-T 255**	64.6
343	70	64	3	107	**CA-CY-T 343**	75.8
449	76	70	3	117	**CA-CY-T 449**	87.6
621	84	78	3	130	**CA-CY-T 621**	104.5
721	89	82	3.5	137	**CA-CY-T 721**	113.4
954	98	90	4	150	**CA-CY-T 954**	132.0
1308	110	100	5	167	**CA-CY-T 1308**	156.8

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Cylindrical Balanced Form

Capacity (ml)	O.D. (mm)	I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
0.4	10	8	1	8	**CA-CY-B 0.4**	3.2
0.8	12	10	1	10	**CA-CY-B 0.8**	4.0
1.4	14	12	1	12	**CA-CY-B 1.4**	4.9
3.2	19	16	1.5	16	**CA-CY-B 3.2**	7.1
6.3	23	20	1.5	20	**CA-CY-B 6.3**	9.6
12	28	25	1.5	25	**CA-CY-B 12**	13.3
21	33	30	1.5	30	**CA-CY-B 21**	17.5
37	40	36	2	36	**CA-CY-B 37**	23.1
58	48	42	3	42	**CA-CY-B 58**	29.4
98	56	50	3	50	**CA-CY-B 98**	38.8
153	64	58	3	58	**CA-CY-B 153**	49.1
206	70	64	3	64	**CA-CY-B 206**	57.6
269	76	70	3	70	**CA-CY-B 269**	66.5
373	84	78	3	78	**CA-CY-B 373**	79.2
433	89	82	3.5	82	**CA-CY-B 433**	85.9
572	97	90	3.5	90	**CA-CY-B 572**	100.0
785	108	100	4	100	**CA-CY-B 785**	118.7
1045	120	110	5	110	**CA-CY-B 1045**	138.7

Cylindrical Short Form

Capacity (ml)	O.D. (mm)	I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
1.6	19	16	1.5	8	**CA-CY-S 1.6**	5.3
3.1	23	20	1.5	10	**CA-CY-S 3.1**	7.0
5.4	27	24	1.5	12	**CA-CY-S 5.4**	9.0
13	36	32	2	16	**CA-CY-S 13**	13.6
25	46	40	3	20	**CA-CY-S 25**	19.1
49	56	50	3	25	**CA-CY-S 49**	26.9
85	66	60	3	30	**CA-CY-S 85**	35.9
146	78	72	3	36	**CA-CY-S 146**	48.0
233	90	84	3	42	**CA-CY-S 233**	61.5
393	107	100	3.5	50	**CA-CY-S 393**	81.5
613	124	116	4	58	**CA-CY-S 613**	103.8
823	138	128	5	64	**CA-CY-S 823**	121.8
1077	150	140	5	70	**CA-CY-S 1077**	141.0

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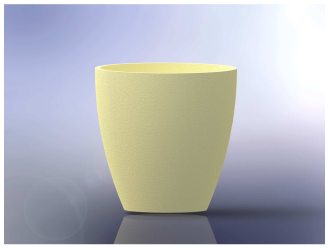
Classic Form

t-ceramics High Alumina Classic Form crucibles are available in two forms:

- Balanced Form with *I.D. ≅ 1.04 x Internal Height*
- Short Form with *I.D. ≅ 0.55 x Internal Height*

Custom sizes available upon request



Classic Balanced Form

Capacity (ml)	Top O.D. (mm)	Top I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
5.5	23	20	1.5	21	**CA-HF-B 5.5**	8.9
12	29	25	2	26	**CA-HF-B 12**	12.9
17	34	30	2	31	**CA-HF-B 17**	15.3
27	40	35	2.5	36	**CA-HF-B 27**	19.2
45	45	40	2.5	42	**CA-HF-B 45**	24.8
80	56	50	3	52	**CA-HF-B 80**	33.4
132	66	60	3	63	**CA-HF-B 132**	43.3
210	76	70	3	73	**CA-HF-B 210**	55.2
310	86	80	3	83	**CA-HF-B 310**	67.8
440	97	90	3.5	94	**CA-HF-B 440**	81.7
600	107	100	3.5	104	**CA-HF-B 600**	96.3
700	112	105	3.5	109	**CA-HF-B 700**	104.6
815	118	110	4	115	**CA-HF-B 815**	113.4
1000	128	118	5	123	**CA-HF-B 1000**	126.5

Classic Short Form

Capacity (ml)	Top O.D. (mm)	Top I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
22	45	40	2.5	22	**CA-HF-S 22**	17.3
46	56	50	3	28	**CA-HF-S 46**	25.1
78	66	60	3	33	**CA-HF-S 78**	32.9
125	76	70	3	39	**CA-HF-S 125**	42.1
184	86	80	3	44	**CA-HF-S 184**	51.5
262	97	90	3.5	50	**CA-HF-S 262**	62.1
356	107	100	3.5	55	**CA-HF-S 356**	73.0
476	118	110	4	61	**CA-HF-S 476**	85.2
625	128	120	4	66	**CA-HF-S 625**	98.4
800	138	130	4	72	**CA-HF-S 800**	112.3
1000	150	140	5	77	**CA-HF-S 1000**	126.5

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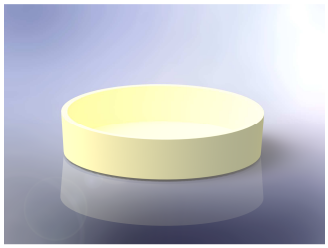
Dishes (Round Shallow Form)

t-ceramics High Alumina Dishes are available in one form:

- Round shallow crucibles with *I.D. ≅ (3 to 5) x Internal Height*

Custom sizes available upon request



Dishes

Capacity (ml)	O.D. (mm)	I.D. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.	Price (Euro)
1.9	23	20	1.5	6	**CA-DH- 1.9**	5.7
5.7	33	30	1.5	8	**CA-DH- 5.7**	9.3
13	44	40	2	10	**CA-DH- 13**	13.8
24	56	50	3	12	**CA-DH- 24**	19.0
40	66	60	3	14	**CA-DH- 40**	24.9
62	76	70	3	16	**CA-DH- 62**	31.5
90	86	80	3	18	**CA-DH- 90**	38.8
127	96	90	3	20	**CA-DH- 127**	46.6
173	107	100	3.5	22	**CA-DH- 173**	55.1
228	117	110	3.5	24	**CA-DH- 228**	64.1
294	128	120	4	26	**CA-DH- 294**	73.7
371	138	130	4	28	**CA-DH- 371**	83.9
462	148	140	4	30	**CA-DH- 462**	94.5
565	160	150	5	32	**CA-DH- 565**	105.7
683	170	160	5	34	**CA-DH- 683**	117.4
817	182	170	6	36	**CA-DH- 817**	129.6
966	192	180	6	38	**CA-DH- 966**	142.3

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Rectangular Form

t-ceramics High Alumina rectangular crucibles are available in two forms:

- Square Form with *Length. ≅ Width*
- Oblong Form with *Length. ≅ 1.5 x Width*

Custom sizes available upon request

Rectangular Square Form

Capacity (ml)	Length Int. (mm)	Width Int. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.		Price (Euro)
4.0	20	20	2	10	**CA-RC-S**	**4.0**	8.1
22	40	40	2	14	**CA-RC-S**	**22**	20.6
65	60	60	2	18	**CA-RC-S**	**65**	37.8
141	80	80	3	22	**CA-RC-S**	**141**	59.6
260	100	100	3	26	**CA-RC-S**	**260**	85.6
432	120	120	3	30	**CA-RC-S**	**432**	115.6
666	140	140	4	34	**CA-RC-S**	**666**	149.6
973	160	160	4	38	**CA-RC-S**	**973**	187.4
1361	180	180	4	42	**CA-RC-S**	**1361**	228.9

Rectangular Oblong Form

Capacity (ml)	Length Int. (mm)	Width Int. (mm)	Wall Th. (mm)	Height Int. (mm)	Part No.		Price (Euro)
2.7	20	13	1.5	10	**CA-RC-O**	**2.7**	6.6
13	40	24	1.5	14	**CA-RC-O**	**13.4**	15.5
39	60	36	2	18	**CA-RC-O**	**39**	28.2
84	80	48	3	22	**CA-RC-O**	**84**	44.2
156	100	60	3	26	**CA-RC-O**	**156**	63.3
259	120	72	3	30	**CA-RC-O**	**259**	85.4
400	140	84	3	34	**CA-RC-O**	**400**	110.4
584	160	96	3	38	**CA-RC-O**	**584**	138.2
816	180	108	4	42	**CA-RC-O**	**816**	168.8
1104	200	120	4	46	**CA-RC-O**	**1104**	202.1

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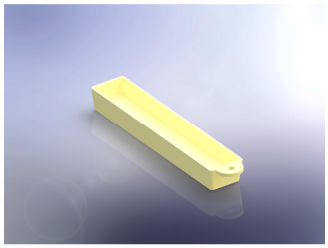
Boats

t-ceramics High Alumina boats are available in two forms:

- With tail and hole (*Length. ≅ Width)*
- Without tail and hole (*Length. ≅ Width)*

Custom sizes available upon request



Boats with Tail and Hole

Capacity (ml)	Length Int. (mm)	Width Int. (mm)	Height Int. (mm)	Wall Th. (mm)	Part No.	Price (Euro)
4.5	40	14	8	2	**CA-BT-T 4.5**	12.3
6.7	60	14	8	2	**CA-BT-T 6.7**	15.0
9.0	80	14	8	2	**CA-BT-T 9**	17.3
11	100	14	8	2	**CA-BT-T 11**	19.5
12	110	14	8	2	**CA-BT-T 12**	20.5
10	60	14	12	2	**CA-BT-T 10**	18.4
13	80	14	12	2	**CA-BT-T 13**	21.6
17	100	14	12	2	**CA-BT-T 17**	24.4
18	110	14	12	2	**CA-BT-T 18**	25.8
20	120	14	12	2	**CA-BT-T 20**	27.1
32	100	20	16	2	**CA-BT-T 32**	35.7
38	120	20	16	2	**CA-BT-T 38**	39.8
45	140	20	16	2	**CA-BT-T 45**	43.8
62	120	26	20	3	**CA-BT-T 62**	53.9
73	140	26	20	3	**CA-BT-T 73**	59.4

Boats without Tail and Hole

Capacity (ml)	Length Int. (mm)	Width Int. (mm)	Height Int. (mm)	Wall Th. (mm)	Part No.	Price (Euro)
4.5	40	14	8	2	**CA-BT 4.5**	11.4
6.7	60	14	8	2	**CA-BT 6.7**	13.4
9.0	80	14	8	2	**CA-BT 9**	15.2
11	100	14	8	2	**CA-BT 11**	16.8
12	110	14	8	2	**CA-BT 12**	17.5
10	60	14	12	2	**CA-BT 10**	16.0
13	80	14	12	2	**CA-BT 13**	18.3
17	100	14	12	2	**CA-BT 17**	20.3
18	110	14	12	2	**CA-BT 18**	21.3
20	120	14	12	2	**CA-BT 20**	22.2
32	100	20	16	2	**CA-BT 32**	28.0
38	120	20	16	2	**CA-BT 38**	30.8
45	140	20	16	2	**CA-BT 45**	33.4
62	120	26	20	3	**CA-BT 62**	39.8
73	140	26	20	3	**CA-BT 73**	43.3

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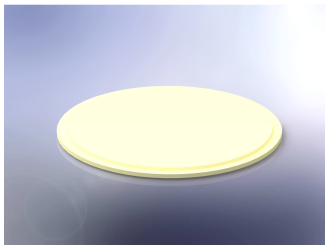
Lids



t-ceramics High Alumina Lids are available for Conical, Cylindrical and Classic Form Crucibles.

Match the Crucible's Top I.D. value with Lid Fit Diameter.
For example: Lid with Part No. CA-LD-C70 having Fit diameter 70mm is suitable for use with crucibles with I.D. 70mm, e.g. CA-CY-T 449

Custom sizes available upon request

Lids *(For Conical, Cylindrical and Classic Form Crucibles)*

Fit Diameter (mm)	Outside Diameter (mm)	Height Int. (mm)	Part No.		Price (Euro)
8	10	2.0	**CA-LD-C**	**8**	3.0
10	12	2.0	**CA-LD-C**	**10**	3.3
12	14	2.0	**CA-LD-C**	**12**	3.6
16	19	2.0	**CA-LD-C**	**16**	4.4
20	23	2.0	**CA-LD-C**	**20**	5.2
25	28	2.0	**CA-LD-C**	**25**	6.2
30	33	2.0	**CA-LD-C**	**30**	7.2
32	36	3.0	**CA-LD-C**	**32**	9.9
36	40	3.0	**CA-LD-C**	**36**	11.1
40	46	3.0	**CA-LD-C**	**40**	13.1
42	48	3.0	**CA-LD-C**	**42**	13.8
50	56	3.0	**CA-LD-C**	**50**	16.6
58	64	3.0	**CA-LD-C**	**58**	19.6
60	66	3.0	**CA-LD-C**	**60**	20.4
64	70	3.0	**CA-LD-C**	**64**	21.9
70	76	3.0	**CA-LD-C**	**70**	24.4
72	78	3.0	**CA-LD-C**	**72**	25.2
78	84	3.0	**CA-LD-C**	**78**	27.7
80	86	3.0	**CA-LD-C**	**80**	28.6
82	88	3.0	**CA-LD-C**	**82**	29.5
84	90	3.5	**CA-LD-C**	**84**	33.6
90	97	3.5	**CA-LD-C**	**90**	37.1
100	108	3.5	**CA-LD-C**	**100**	42.8
110	120	3.5	**CA-LD-C**	**110**	49.3
116	124	4.0	**CA-LD-C**	**116**	56.3
120	128	4.0	**CA-LD-C**	**120**	58.8
128	138	4.0	**CA-LD-C**	**128**	65.1
130	138	4.0	**CA-LD-C**	**130**	65.1
140	148	4.0	**CA-LD-C**	**140**	71.6

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Thermansys is a producer of High Temperature Electrical Furnaces, Vacuum Ovens, Precision Vacuum Hot Plates and Refractory Technical Ceramics.

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