



Rectangular Alumina Crucible

Rectangular Alumina Crucibles for Industrial & Lab

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About ADCERAX

Powered by **HUNAN ATCERA CO.,LTD** – A Trusted Innovator in Advanced Ceramics Since 2010 ,**HUNAN ATCERA CO. Ltd** has been deeply engaged in the field of advanced ceramics for 20 years, and has production experience of more than 2000 precision ceramic products. We focus on the material of alumina ceramics, zirconia ceramics, silicon carbide ceramics, silicon nitride ceramics, aluminum nitride ceramics and quartz, etc., and aim to provide you with advanced ceramics one-stop service.

Adcerax delivering bespoke advanced ceramic solutions for industries where precision and durability matter. And has become a leading global China supplier of alumina ceramic crucibles, with products exported to the United States, Germany, Japan, South Korea, and many other countries.



Our Expertise



Engineering Support: Professional product engineers providing timely technical assistance from design to production.



Customization Capability: Accepting small-batch custom orders based on customer drawings or samples.



Rapid Delivery: Quick shipping for custom orders and 24-hour dispatch for in-stock standard products.



Supply Chain Integration: One-stop customization and procurement services leveraging China's supply chain advantages.



ADCERAX Promise

Your ROI Starts from Day One

-  37% Lifespan: Industry Standards Verified by SGS Third-Party Testing in Extreme Thermal Shock Environments
-  22% Downtime: Reduce unplanned downtime with ceramic component life enhancement
-  15 days fast response: From drawing confirmation to functional prototype delivery
-  12 months warranty: Unconditional return of quality problems to factory for remanufacturing + process optimization report



Our Certifications



What is Rectangular Alumina Crucible?

A rectangular alumina crucible is a ceramic container made mainly from aluminum oxide (Al_2O_3) and shaped with a rectangular or box-like profile. It is used to hold, heat, calcine, sinter, or test powders, samples, and small parts in high-temperature environments.

Common Applications:

- ◆ Laboratory heating and analysis
- ◆ Powder calcination
- ◆ Sintering small ceramic or metal parts
- ◆ Batch heat treatment where flat sample arrangement matters



Rectangular Alumina Crucible Process



Raw Material Preparation

Alumina powder is selected and mixed with binders and plasticizers to form a uniform slurry or paste.



Forming

Extrusion: Alumina slurry is extruded through a die into continuous tubular shapes.

Isostatic Pressing: Powder is molded under high pressure to form high-density, uniform tubes.

Slip Casting: Liquid slurry is cast into a mold and solidified.



Drying

The formed tubes are dried slowly to remove moisture and prevent cracking or deformation.



Sintering

The dried tubes are fired in a high-temperature kiln (typically 1600–1700°C) to achieve full densification and develop the final ceramic properties.



Machining

After sintering, the tubes may be ground or machined to achieve precise dimensions, surface finish, or special features such as chamfered ends or holes.

Rectangular Alumina Crucible Properties

Property	Unit	99.7% Al ₂ O ₃	99.5% Al ₂ O ₃	99% Al ₂ O ₃	96% Al ₂ O ₃
Color		Ivory White	Ivory White	Ivory White	Ivory White
Density	g/cm ³	3.94	3.9	3.83	3.6-3.75
Water Absorption	%	0	0	0	0
Hardness	Mohs Hardness	9.1	9	9	8.8
Flexural Strength (20°C)	Mpa	330	320	300	260
Compressive Strength (20°C)	Mpa	2300	2300	2210	1910
Maximum Operating Temperature	°C	1730	1700	1680	1450
Thermal Expansion Coefficient (25°C to 800°C)	10 ⁻⁶ /°C	7.6	7.6	7.6	7.6
Thermal Conductivity (25°C)	W/(m·K)	29	27	24	22
Dielectric Strength (5mm thickness)	AC-kv/mm	22	21	19	15
Dielectric Loss at 25°C@1MHz	---	< 0.0001	< 0.0001	0.0003	0.0004
Dielectric Constant at 25°C@1MHz	---	9.8	9.7	9.5	9.2
Volume Resistivity (20°C)	Ω·cm ³	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴
Volume Resistivity (300°C)	Ω·cm ³	2*10 ¹²	2*10 ¹²	4*10 ¹¹	2*10 ¹¹

Technical Advantages



High-temperature capability

Up to 1750–1800°C depending on purity grade, suitable for calcination, ashing and pilot sintering.



Chemical cleanliness

Alumina contact surfaces help limit contamination for oxides, salts and many lab samples.



Electrical insulation

Volume resistivity remains above $1 \times 10^{14} \Omega \cdot \text{cm}$ for listed grades, useful in electrically sensitive setups.



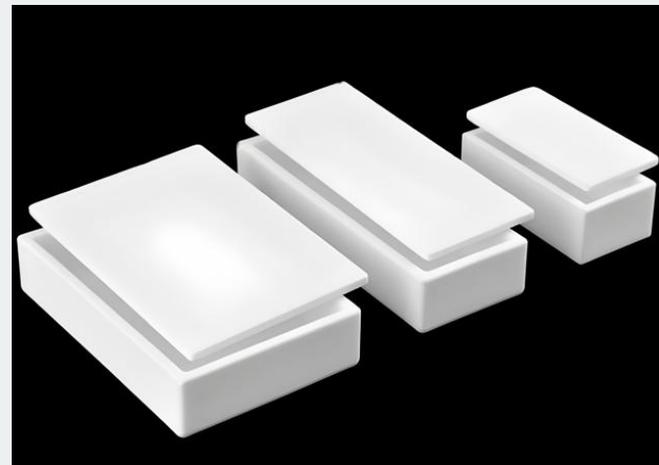
Dense, wear-resistant body

High hardness and compressive strength support repeated handling and long service life.



Shelf-efficient geometry

Rectangular footprint packs efficiently in furnaces and racks without roll-over.



Purity selection guide

99%: cost-effective routine furnace use

99.5%: better chemical cleanliness

99.7%: low contamination, higher temperature margin

01 Rectangular Alumina Crucible

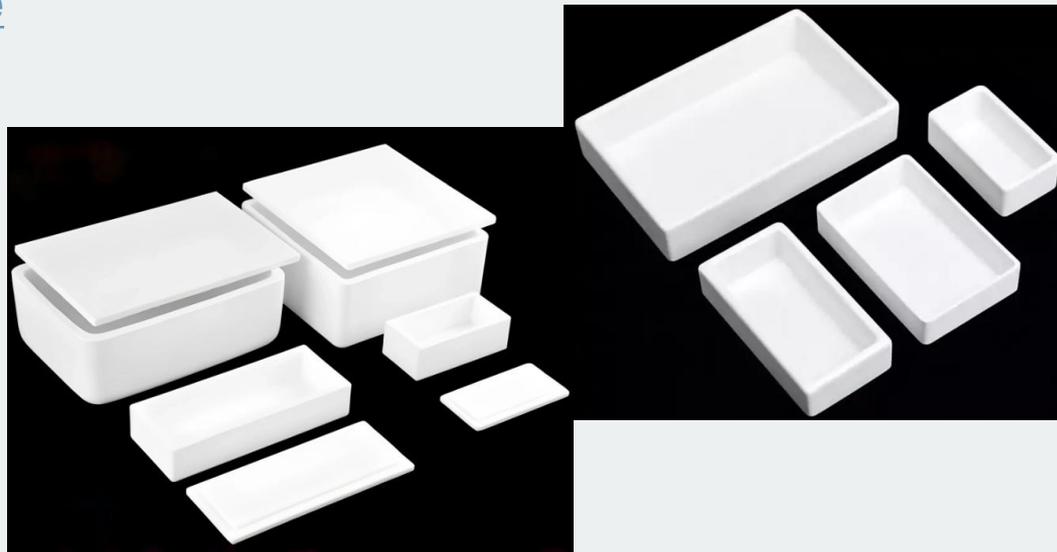
High-Temperature Rectangular Alumina Crucible

SPECIFICATIONS

Al ₂ O ₃ Purity	99% – 99.7%
Max Temperature	1680°C – 1730°C
Volume Range	0.9 ml – 20000 ml+
Shape Options	Rectangular / Square
Customization	Custom sizes and matching lids available

APPLICATIONS

Thermal Analysis · Batch Calcination · Ashing · Powder Metallurgy · Ceramic Sintering · Chemical Analysis

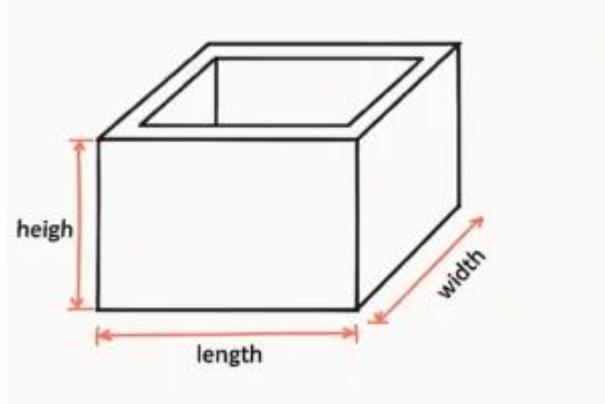


KEY FEATURES

- 1 Rectangular footprint improves tray loading efficiency for parallel processing
- 2 Custom wall thickness and corner radius help maintain shape during heat cycling
- 3 Matching lids help reduce volatilization and support controlled atmospheres
- 4 High-purity alumina helps reduce contamination in oxides, salts, and alloy testing

Rectangular Alumina Crucible Size:

Type 1- Rectangular Alumina Crucible



Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-93	0.9	45	8	6
TE-AS-018	2.6	70	12	7
TE-AS-005	2.8	50	10	10
TE-ASJ-92	3	25	15	15
TE-AS-006	3.6	50	12	10
TE-AS-027	3.6	80	10	10
TE-AS-001	4.2	27.5	23	10
TE-AS-001-1	4.5	20	20	17
TE-AS-005-9	4.5	20	20	17
TE-ASJ-91	4.5	20	20	17
TE-AS-036	5.8	100	10	10
TE-AS-020	6.2	75	15	10
TE-AS-002	6.7	30	20	16
TE-AS-002-1	7.1	30	20	17
TE-ASJ-93	0.9	45	8	6
TE-AS-018	2.6	70	12	7

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-90	7.1	30	20	17
TE-AS-008	7.7	50	25	10
TE-AS-005-2	8.5	42	22	13
TE-ASJ-89	8.8	50	25	10
TE-AS-005-1	9.2	45	22	13
TE-AS-021	11.9	75	18	14
TE-AS-035-6	13.2	98	18	12
TE-AS-005-4	13.2	50	20	20
TE-AS-005-5	13.2	50	28	14
TE-AS-043-4	14	100	35	6
TE-AS-016-6	14.7	61	47	8
TE-ASJ-88	14.8	50	20	20
TE-AS-016-2	15.3	60	25	15
TE-AS-016-9	17.5	60	30	14
TE-ASJ-86	18	60	30	15
TE-ASJ-90	7.1	30	20	17

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-87	18	70	30	15
TE-AS-017	18.5	65	23	18
TE-AS-016-3	18.9	60	30	15
TE-AS-029-2	19.4	85	34	10
TE-AS-039	20	100	20	15
TE-AS-022	20.4	75	20	20
TE-AS-016-13	20.6	65	30	15
TE-AS-005-8	20.8	30	30	30
TE-AS-013	21.2	52	25	23
TE-AS-019-5	22.3	70	30	15
TE-ASJ-85	26	50	25	35
TE-AS-052	26	110	24	17
TE-AS-015	26.2	60	30	20
TE-AS-016	26.2	60	40	15
TE-AS-016-10	26.2	60	30	20
TE-ASJ-87	18	70	30	15

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-039-1	26.2	100	25	15
TE-AS-035-5	26.8	95	25	16
TE-AS-065	27	150	20	20
TE-AS-070	27	200	150	5
TE-ASJ-84	28	100	20	20
TE-ASJ-83	28.5	60	30	20
TE-AS-051-10	29.2	100	20	21
TE-AS-005-6	29.8	50	40	20
TE-ASJ-81	31	110	24	17
TE-AS-012	31.9	50	25	35
TE-ASJ-80	32	100	50	10
TE-ASJ-79	32.2	50	40	20
TE-AS-061-2	33	120	30	15
TE-AS-011-4	33	55	40	20
TE-ASJ-78	34	55	40	20
TE-AS-016-8	34	65	35	20

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-051-1	35.3	100	50	10
TE-ASJ-77	38	120	30	15
TE-AS-054-3	39	113	30	18
TE-AS-019-3	39.2	70	37	20
TE-AS-003	39.4	35	35	40
TE-AS-027-3	41	80	40	17
TE-ASJ-76	43.9	60	30	30
TE-ASJ-74	44	70	30	30
TE-AS-041	44.9	100	30	20
TE-AS-019-2	48	70	30	30
TE-AS-005-7	48.7	50	50	25
TE-ASJ-73	50	50	50	25
TE-AS-004	52.7	40	40	40
TE-AS-051	54.9	100	48	15
TE-AS-038-4	57.4	100	30	25
TE-ASJ-72	61	100	40	20

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-024	65.5	75	75	15
TE-AS-051-12	65.7	100	40	21
TE-AS-051-2	69.9	100	30	30
TE-ASJ-71	70	75	75	15
TE-ASJ-70	70	100	30	30
TE-AS-044	70.7	100	50	18
TE-AS-070-26	72	250	35	15
TE-AS-034-4	72.2	90	60	17
TE-AS-070-31	75	400	20	20
TE-ASJ-69	78	65	65	25
TE-ASJ-68	84	65	65	30
TE-AS-031	86.7	90	60	20
TE-ASJ-67	91.7	90	60	20
TE-AS-061-3	92	120	60	18
TE-ASJ-63	100	65	65	35
TE-ASJ-64	100	100	50	30

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-65	100	120	60	20
TE-AS-011	101.6	50	50	50
TE-AS-016-11	104.2	65	65	30
TE-AS-061-4	105	120	60	20
TE-AS-016-7	108.5	62	38	57
TE-AS-029-6	111	95	65	22
TE-AS-062-5	117	120	60	22
TE-AS-064-4	118	150	40	30
TE-AS-019-1	122	70	70	30
TE-AS-021-1	122.8	65	65	35
TE-AS-051-4	123.6	100	50	30
TE-AS-054-4	126	118	100	15
TE-AS-062-7	129	120	100	15
TE-ASJ-62	136	120	100	15
TE-AS-029	138.3	85	65	30
TE-AS-064-5	141	150	40	35

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-61	141	150	40	30
TE-AS-025	141.1	75	75	30
TE-AS-019	143.7	70	70	35
TE-AS-034	146.9	90	65	30
TE-ASJ-60	150	70	70	30
TE-AS-045	150.5	100	60	30
TE-AS-070-32	152	800	20	20
TE-AS-032	158.9	90	60	35
TE-ASJ-59	160	100	100	20
TE-AS-029-1	161.7	80	80	30
TE-AS-023	163.6	75	52	50
TE-AS-043-2	165.9	100	100	20
TE-AS-035-4	166.2	98	72	28
TE-ASJ-58	168	150	40	35
TE-ASJ-57	173	90	60	40
TE-AS-046	177.4	100	70	30

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-55	180	80	80	40
TE-ASJ-56	180	90	90	30
TE-AS-034-3	183	90	60	40
TE-AS-027-4	183.7	85	85	30
TE-ASJ-51	197	90	60	45
TE-ASJ-50	200	80	85	40
TE-AS-067-5	204	175	55	30
TE-ASJ-49	207	100	100	25
TE-AS-034-1	207.1	90	90	30
TE-AS-034-5	207.1	90	60	45
TE-AS-051-5	212	100	100	25
TE-AS-026	216.8	75	75	45
TE-AS-026-2	219.5	80	80	40
TE-ASJ-48	220	85	85	40
TE-AS-062-2	221	120	120	20
TE-ASJ-47	223	92	63	47

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-061-5	228	120	60	40
TE-AS-061-6	228	120	80	30
TE-ASJ-46	233	120	60	40
TE-AS-034-6	233.6	92	63	47
TE-AS-026-3	233.9	80	85	40
TE-ASJ-45	234	175	55	30
TE-ASJ-44	243	120	80	30
TE-AS-054-7	247	115	90	30
TE-AS-030	249.3	85	85	40
TE-AS-054-6	250	115	115	24
TE-ASJ-43	255	115	90	30
TE-ASJ-42	260	100	100	35
TE-AS-054-2	270	115	65	45
TE-ASJ-40	280	90	90	45
TE-ASJ-41	280	120	80	40
TE-AS-034-2	281	90	90	40

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-39	284	115	65	45
TE-AS-055	285	110	80	40
TE-AS-057	291	120	75	40
TE-ASJ-38	300	100	100	40
TE-AS-048	304.1	100	100	35
TE-AS-061	312	120	80	40
TE-AS-029-4	318	90	90	45
TE-AS-053-1	346	110	110	35
TE-ASJ-37	350	115	115	35
TE-AS-051-6	350.2	100	100	40
TE-AS-062	351	120	120	30
TE-AS-069-5	371	200	100	25
TE-AS-061-1	380	115	115	35
TE-AS-049	396.3	100	100	45
TE-AS-070-27	406	178	85	35
TE-ASJ-36	407	200	100	25

Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-35	424	100	100	50
TE-ASJ-34	470	100	100	55
TE-AS-064-3	488	145	145	30
TE-AS-051-8	488.4	100	100	55
TE-ASJ-33	516	100	100	60
TE-ASJ-32	520	140	140	38
TE-AS-064-7	524	150	150	30
TE-AS-067-2	528	160	120	35
TE-ASJ-31	530	145	145	30
TE-AS-051-9	534.5	100	100	60
TE-ASJ-29	550	120	120	50
TE-ASJ-30	550	140	140	37
TE-ASJ-28	554	150	150	30
TE-ASJ-27	561	160	120	35
TE-AS-064-1	575	140	140	35
TE-AS-062-10	611	140	140	37

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-062-9	611	120	120	50
TE-AS-064-8	625	150	150	35
TE-AS-064	664	140	140	40
TE-ASJ-26	700	200	100	50
TE-AS-062-3	718	120	100	70
TE-ASJ-25	730	260	75	50
TE-AS-064-14	732	150	120	50
TE-AS-062-11	754	140	140	45
TE-AS-070-15	777	260	75	50
TE-AS-050-1	791	155	120	50
TE-AS-050	811	100	100	90
TE-AS-069-6	813	200	100	50
TE-ASJ-23	850	150	150	50
TE-AS-064-2	988	150	150	53
TE-ASJ-22	996.1	160	160	45
TE-ASJ-20	1000	150	110	80

Rectangular Alumina CrucibleSize:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-21	1000	160	160	50
TE-AS-070-30	1025	360	120	30
TE-AS-067-1	1063	160	160	50
TE-AS-064-9	1101	150	110	80
TE-AS-064-11	1129	150	150	60
TE-ASJ-19	1150	305	90	57
TE-ASJ-18	1175	150	150	60
TE-AS-062-12	1203	140	140	70
TE-AS-070-20	1227	305	90	57
TE-ASJ-16	1273	120	120	100
TE-AS-070-13	1324	250	160	40
TE-AS-067-6	1361	180	180	50
TE-AS-059-2	1371	130	120	100
TE-ASJ-15	1430	160	120	85
TE-ASJ-13	1500	180	180	60
TE-ASJ-14	1500	200	200	50

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-064-13	1532	150	150	80
TE-AS-069-7	1634	200	120	80
TE-ASJ-11	1650	240	170	50
TE-AS-067-7	1657	180	180	60
TE-ASJ-10	1680	200	120	80
TE-AS-069-9	1696	200	200	50
TE-AS-070-7	1729	240	170	50
TE-AS-067	1756	160	160	80
TE-AS-043-3	1824.8	100	400	50
TE-AS-064-6	1907	150	100	150
TE-AS-070-21	2079	340	220	35
TE-AS-067-4	2327	160	140	120
TE-AS-070-24	2473	224	224	57
TE-ASJ-7	2500	250	155	80
TE-ASJ-6	2600	200	200	80
TE-AS-070-9	2612	250	150	80

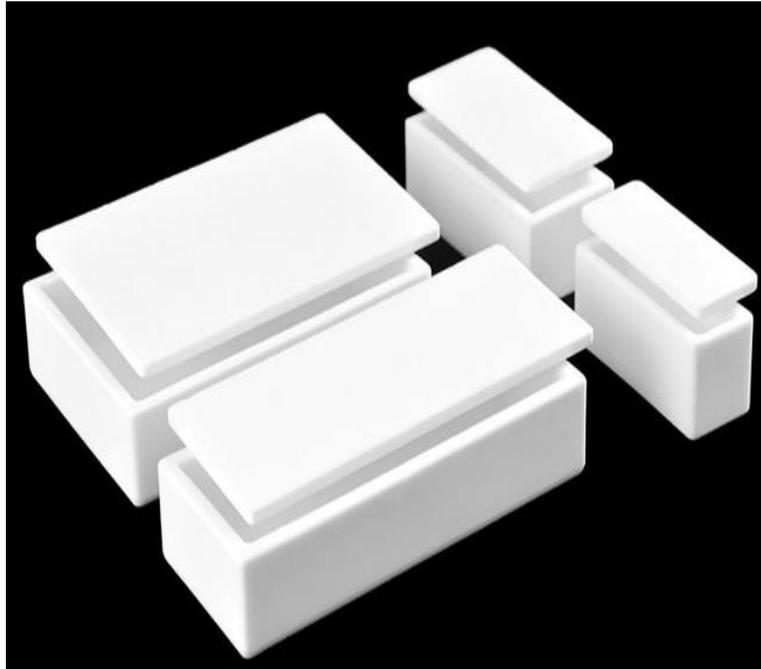
Rectangular Alumina Crucible Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-ASJ-4	3200	220	220	80
TE-AS-070-17	3205	300	180	70
TE-ASJ-3	3300	200	200	100
TE-AS-070-29	3362	300	210	61
TE-AS-070-6	3416	220	220	80
TE-AS-070-16	3451	300	150	90
TE-AS-070-3	3539	200	200	100
TE-ASJ-2	3566	300	150	90
TE-AS-070-18	4133	300	200	80
TE-AS-070-8	4451	250	250	80
TE-AS-069-11	5000	250	250	100
TE-AS-069-10	5100	340	220	35
TE-AS-069-91	5250	250	200	125
TE-AS-069-8	5344	200	150	200
TE-AS-070-25-1	5400	200	150	200
TE-AS-070-12	5622	250	200	125

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-070-14	5622	250	250	100
TE-AS-070-22-1	7465	330	330	80
TE-AS-070-23-1	15760	330	330	160

🎯 Rectangular Alumina Crucible with Lid Size:

Type 2- Rectangular Alumina Crucible with Lid



Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-182	1	45	8	6
TE-AS-149	1.3	45	8	6
TE-AS-183	3	25	15	15
TE-AS-148	4	25	15	15
TE-AS-171	4	20	20	17
TE-AS-125	7	30	20	17
TE-AS-172	9	50	25	10
TE-AS-116-1	15	50	20	20
TE-AS-117	15.7	50	20	21
TE-AS-126	17	50	20	23
TE-AS-128	21	60	30	15
TE-AS-184	26	50	25	35
TE-AS-115	28	60	30	20
TE-AS-116	29	60	30	21
TE-AS-129	31	60	30	23
TE-AS-109-3	34	100	20	23

 **Rectangular Alumina Crucible with Lid Size:**

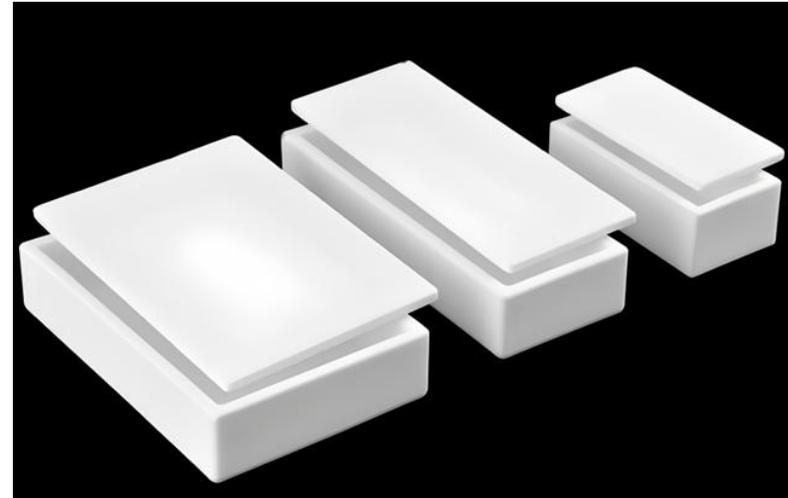
Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-112	31	100	20	20
TE-AS-137	32	100	20	21
TE-AS-127	32	50	40	20
TE-AS-150	35	50	25	35
TE-AS-185	40	50	50	25
TE-AS-130	44	60	30	30
TE-AS-111	48	100	30	20
TE-AS-110	66	100	40	20
TE-AS-186	68	65	65	25
TE-AS-131	70	75	75	15
TE-AS-173	75	100	30	30
TE-AS-187	84	65	65	30
TE-AS-115	92	90	60	20
TE-AS-188	110	70	70	30
TE-AS-142	110	120	60	18
TE-AS-189	115	65	65	35

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-108-2	123	120	60	20
TE-AS-140	130	100	50	30
TE-AS-190	150	100	100	25
TE-AS-112	154	90	65	30
TE-AS-191	170	90	90	30
TE-AS-114	191	90	60	40
TE-AS-135	216	90	60	45
TE-AS-132	228	80	80	40
TE-AS-108-1	257	120	60	40
TE-AS-145	257	120	80	30
TE-AS-192	260	100	100	35
TE-AS-136	329	90	90	45
TE-AS-193	330	115	115	35
TE-AS-146	347	120	80	40
TE-AS-141	362	100	100	40
TE-AS-194	370	200	100	25

Rectangular Alumina Crucible with Lid Size:

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-196	510	120	120	50
TE-AS-197	520	140	140	38
TE-AS-174	550	100	100	60
TE-AS-162	616	150	150	30
TE-AS-198	750	150	150	50
TE-AS-199	800	200	100	50
TE-AS-147	1072	160	160	45
TE-AS-176	1264	150	150	60
TE-AS-175	1286	140	140	70
TE-AS-200	1460	180	180	60
TE-AS-201	1480	200	200	50
TE-AS-177	1696	150	150	80
TE-AS-202	2400	250	155	80
TE-AS-203	2600	200	200	80
TE-AS-204	2830	300	180	70
TE-AS-178	3823	200	200	100

Item NO.	Volume(ml)	Length (mm)	Width (mm)	Height (mm)
TE-AS-179	6009	250	250	100
TE-AS-180	8394	330	330	80
TE-AS-181	16948	330	330	160



Rectangular Alumina Crucible Applications

Truthful application scenarios drawn from ADCERAX product pages; no unnamed customer claims added

Thermal analysis

TGA/DSC and material testing where low contamination and stable mass are important.

Batch calcination

Parallel processing of powders or small parts using shelf-efficient rectangular geometry.

Pilot sintering

Open-top or covered crucibles for controlled heating of ceramics, oxides and salts.

Laboratory heating

Ashing, residue work and sample holding in research and QA laboratories.

Small clean melts

Material screening where metal vessels or quartz are unsuitable.

Fixture matching

Non-standard dimensions to fit tray spacing, racks or special furnace boats.

Positioning guidance

Rectangular alumina crucibles are best when buyers need efficient shelf loading, stable clean chemistry contact and easier integration into linear or box-type heating setups. When severe thermal shock or special wetting behavior is required, material alternatives such as zirconia, BN or SiC should also be evaluated.

Customize Rectangular Alumina Crucible

Support for non-standard dimensions, lids, wall thickness and post-machining features

Dimension

Special length, width, height and capacity

Wall / corner design

Thickness optimization and corner radius control

Accessories

Matching cover or lid

Post machining

Drilling, grooving, grinding, polishing

Material selection

Adjust purity level for process demand

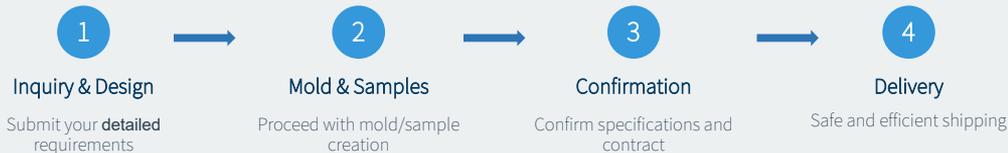
Packaging

Export-ready packing for fragile ceramics



Customization is most valuable when standard stock sizes do not fit fixtures, when atmosphere control requires a cover, or when your project needs better repeatability in pilot runs.

Customization Process



Fast Response Commitment

From drawing confirmation to functional prototype delivery

15 Days

Rectangular Alumina Crucible Usage Guide

Use

- ✓ Inspection before use: a. Check for chips, cracks, or surface defects before each cycle.
b. Pre-dry crucible at 110–150 ° C for 1–2 hours to remove moisture.
- ✓ Loading sample: a. Distribute material evenly across the flat base; avoid uneven piling.
b. Do not exceed 70–80% of total ml capacity to prevent overflow.
c. For volatile samples, use a lid or cover to minimize loss.

Operation

- ✓ Increase temperature gradually; recommended ramp rate: $\leq 5\text{--}10$ ° C/min for cycles above 1000 ° C.
- ✓ Avoid sudden cooling; allow crucible to cool inside the furnace chamber whenever possible.

Cleaning

- ✓ Allow the crucible to cool naturally to room temperature before handling, clean off residue gently, and use only alumina-compatible cleaning solutions when needed.
- ✓ After cleaning, dry it fully and re-dry at 110–150° C for 1–2 hours before reuse or storage.

Common Mistakes

- ✓ Thermal shock (cracks) → Use slower heating/cooling ramps ($\leq 5\text{--}10$ °C/min) or select thicker wall crucibles for aggressive cycles.
- ✓ Edge chipping → Order crucibles with larger corner radius ($R \geq 2$ mm) or use alumina setter plates during loading/unloading.

Do not overlook

- ⚠ Match purity and geometry to process temperature.
- ⚠ Avoid strong alkalis, HF and incompatible molten media.
- ⚠ Use covered types when volatilization control matters.

Why buyers keep this page

It reduces breakage risk during qualification, supports SOP creation and helps operators use the correct crucible type for each process.

Technical Support

✉ Technical Inquiry: info@adcerax.com

📞 Service Hotline: +86-0731-84428843

💬 Whatsapp: +86-19311583352

Rectangular Alumina Crucible FAQ

✓ **Q: What is the maximum temperature a rectangular alumina crucible can withstand?**

A: Our standard rectangular alumina crucibles can typically withstand temperatures up to 1730° C . Specific grades may vary, so please check the specifications for your chosen alumina rectangular crucible.

✓ **Q: Are your rectangular alumina crucibles suitable for melting metals?**

A: Yes, high-purity rectangular alumina crucibles are excellent for melting many types of metals and alloys due to their high-temperature stability and chemical inertness. However, always verify compatibility with specific aggressive molten metals.

✓ **Q: How resistant are these rectangular alumina crucibles to thermal shock?**

A: Our rectangular alumina crucibles are designed for good to excellent thermal shock resistance. However, very rapid heating or cooling rates should still be managed, especially for larger alumina rectangular crucibles.

✓ **Q: Can your rectangular alumina crucibles be used in a vacuum furnace?**

A: Yes, high-purity rectangular alumina crucibles are well-suited for use in vacuum furnaces due to their low outgassing properties at high temperatures.

✓ **Q: Can you mark volume or an internal code?**

A: Yes—ml capacity and engraved IDs can be added for traceability.



Service Support

ADCERAX is committed to providing comprehensive service support to customers, from product selection to after-sales maintenance.

Pre-Sales Support

- ✓ Expert technical team provides custom design advice
- ✓ Sample testing and performance verification
- ✓ Technical parameter consultation

Sales Support

- ✓ Order tracking and production progress updates
- ✓ Professional packaging and logistics solutions

After-Sales Service

- ✓ Product quality assurance and problem resolution
- ✓ Technical consultation and application support
- ✓ 24-hour response commitment

Quality Assurance

- ✓ Strict quality control system
- ✓ Product performance testing and verification



Contact Our Specialist Team

✉ Customer Service: info@adcerax.com

📞 Service Hotline: +86-0731-84428843

🌐 Online Support: adcerax.com/support

Contact Us

ADCERAX looks forward to cooperating with you and providing porous alumina crucible solutions. Our team is dedicated to serving you with any questions or needs you may have.

Contact Information

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- +86-19311583352
- adcerax.com
- Building 108, Industrial Park, Liling city Hunan Province, China

Inquiry Process

1

Submit Inquiry

Submit your requirements via email, phone, or website form.

2

Technical Evaluation

Our expert team evaluates your needs and provides solutions.

3

Quotation Confirmation

Provide detailed quotation and delivery time based on your requirements.

4

Order Confirmation

Confirm order and arrange production and delivery.



Get in touch with us

We promise to respond to your inquiry within 24 hours.

Ready to enhance your product performance with porous alumina crucible? Contact our team for personalized consultation, technical support, and competitive quotations.

[Get A Quote](#)