

ALUMINA CRUCIBLES

**Trapezoid-Shaped
with Hole**



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Trapezoid Alumina Crucible with Hole Features:

1. Exceptional Chemical Inertness

- Resists corrosion from acids, alkalis, and molten salts, making them ideal for high-purity applications like metal refining or ceramic processing.

2. High-Temperature Tolerance

- Withstands temperatures up to 1,700°C (3,092°F), ensuring reliability in extreme heat environments such as furnaces or sintering processes.

3. Mechanical Strength

- Maintains structural integrity under thermal shock and mechanical stress, reducing the risk of cracking or deformation during use.

4. Non-Porous & Leak-Proof

- Smooth, dense surface prevents contamination and ensures no leakage of molten materials, critical for precision tasks.

Why Choose Alumina Crucibles?

Their combination of heat resistance, chemical purity, and mechanical reliability makes them indispensable in research labs, production facilities, and high-tech industries. Whether handling reactive metals or sensitive ceramics, alumina crucibles deliver consistent, high-performance results.

Trapezoid Alumina Crucible with Hole

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	3.75
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	1600
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

Aluminum Oxide Crucible Applications:

1. High-Temperature Processing

- Metals & Alloys: Melting aluminum, copper, gold, etc. without contamination.
- Ceramics & Glass: Used in molten oxide and alkali-resistant applications.



2. Laboratory Use

- Chemical Synthesis: High-temperature reactions & sample preparation.
- Analytical Testing: Compatible with XRF, ICP, ensuring contamination-free results.



3. Electronics & Semiconductors

- Wafer Processing: For silicon wafers and electronic components.
- Sapphire Growth: Used in crystal growth methods like Kyropoulos or HEM.



4. Jewelry & Precision Manufacturing

- Precious Metal Casting: Melting gold, platinum, etc.
- Dental Alloys: High-purity applications in dental restorations.



Customize Trapezoid Alumina Crucibles with Hole:

01. Inquiry and Design

Contact us with your detailed requirements; our expert technical team creates tailored designs based on your specific needs.



02. Mold and Samples

Settle the mold or sample fee, confirm the design details carefully, and then we will proceed with mold/sample creation.



04. Payment and Delivery

Complete the final payment for the order, and we will then arrange the safe and efficient shipping for your products.

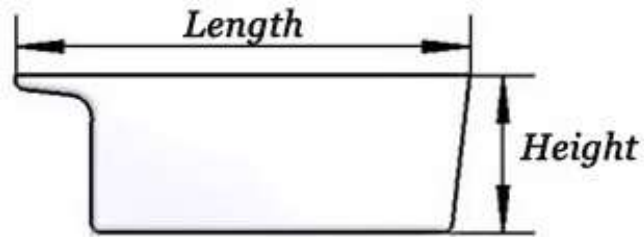


03. Confirm and Produce

Finalize the sample specifications, sign the official production contract, and make the required fifty percent deposit payment to proceed.

⚡ 15 days fast response: From drawing confirmation to functional prototype delivery

Trapezoid Alumina Crucibles with Hole :



Specifications of Trapezoid alumina crucibles with hole:

Item NO.	Length	Width	Height
	mm	mm	mm
TE-AS-071	100	84	35
TE-AS-072	100	56	35
TE-AS-073	100	43	26
TE-AS-074	100	27	27
TE-AS-075	100	24	17
TE-AS-075-1	100	20	20
TE-AS-075-2	100	27	27
TE-AS-075-3	103	28	30
TE-AS-075-4	100	43	25
TE-AS-075-5	100	24	17
TE-AS-075-6	100	27	25
TE-AS-075-7	100	43	26
TE-AS-075-8	100	56	35
TE-AS-075-9	100	50	35
TE-AS-075-10	100	56	35
TE-AS-076	73	30	22

Item NO.	Length	Width	Height
	mm	mm	mm
TE-AS-076-1	73	30	22
TE-AS-076-2	70	30	22
TE-FA-001	300	70	30
TE-FA-002	200	80	35
TE-FA-003	200	11	12
TE-FA-004	105	23	20
TE-FA-005	100	30	25
TE-FA-006	90	10	10
TE-FA-007	80	30	20
TE-FA-008	88	12	10

Item NO.	Length	Width	Height
	mm	mm	mm
TE-FA-001	300	70	30
TE-FA-002	200	80	35
TE-FA-003	200	11	12
TE-FA-004	105	23	20
TE-FA-005	100	30	25
TE-FA-006	90	10	10
TE-FA-007	80	30	20
TE-FA-008	88	12	10