

ALUMINA CRUCIBLES

With Spout



Tel: +86 0731-74427743

<http://adcerax.com>

FACTORY ADD: Building 108,
Industrial Park, Liling city Hunan
Province, China

Alumina Crucible with Spout 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.

Alumina Crucible with Spout 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 Alumina Crucibles with Spout:

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.

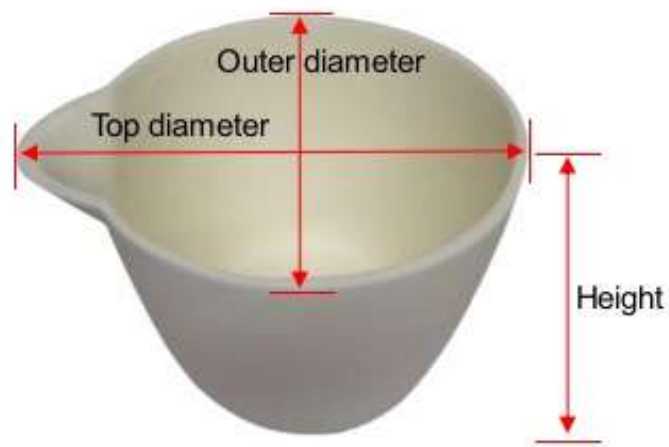


03. Confirm and Produce

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

Alumina Crucibles with Spout Specifications:



Specifications of alumina crucibles with Spout:

Item NO.	Outer diameter (mm)	Thickness (mm)	Inner diameter (4mm Thickness)	Inner diameter (8mm Thickness)	TOP diameter (mm)	Height (mm)	Purity
TE-OEM-124	30	4-8	22	14	40	15	99-99.6
TE-OEM-125	30	4-8	22	14	40	28	99-99.6
TE-OEM-126	30	4-8	22	14	40	35	99-99.6
TE-OEM-127	40	4-8	32	24	50	30	99-99.6
TE-OEM-128	44	4-8	36	28	54	27	99-99.6
TE-OEM-129	50	4-8	42	34	60	35	99-99.6
TE-OEM-130	50	4-8	42	34	60	47	99-99.6
TE-OEM-131	50	4-8	42	34	60	60	99-99.6
TE-OEM-132	50	4-8	42	34	60	75	99-99.6
TE-OEM-133	60	4-8	52	44	70	80	99-99.6
TE-OEM-134	68	4-8	60	52	78	92	99-99.6
TE-OEM-135	75	4-8	67	59	85	46	99-99.6
TE-OEM-136	80	4-8	72	64	90	75	99-99.6
TE-OEM-137	85	4-8	77	69	95	90	99-99.6
TE-OEM-138	90	4-8	82	74	100	80	99-99.6
TE-OEM-139	94	4-8	86	78	104	76	99-99.6
TE-OEM-140	100	4-8	92	84	110	65	99-99.6

Specifications of alumina crucibles with Spout

Item NO.	Outer diameter (mm)	Thickness (mm)	Inner diameter (4mm Thickness)	Inner diameter (8mm Thickness)	TOP diameter (mm)	Height (mm)	Purity
TE-OEM-141	190	4-8	182	174	200	70	99-99.6
TE-OEM-142	190	4-8	182	174	200	65	99-99.6
TE-OEM-143	100	4-8	92	84	110	70	99-99.6
TE-OEM-144	150	4-8	142	134	160	80	99-99.6
TE-OEM-145	270	8	/	254	280	55	99-99.6
TE-OEM-146	340	8	/	324	350	120	99-99.6
TE-OEM-147	400	8	/	384	410	90	99-99.6
TE-OEM-148	450	8	/	434	460	85	99-99.6