ADCERAX
ADVANCED CERAMICS

Alumina Tube Closed One End

High-Quality Alumina Ceramic Tube Solutions Expert

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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 tubes, 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

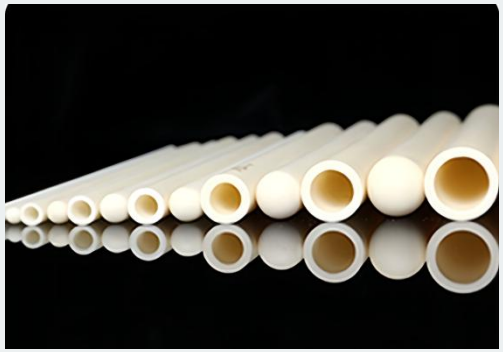
CNAS ISO 水圆认证 CQM CERTIFICATION RoHS COMPLIANT

What is alumina tube closed one end?

An alumina tube closed at one end is a high-temperature ceramic component made from aluminum oxide (Al_2O_3), with one end sealed and the other open. The closed end allows the tube to contain gases, liquids, or solid samples without leakage. It also protects internal components (like sensors or wires) from direct exposure to harsh environments, making it ideal for controlled atmosphere experiments or industrial heating systems.

Common Applications:

- Thermocouple protection in high-temperature kil
- Sample containment in gas atmosphere or vacuum environments
- Reaction chambers for chemical or thermal analysis
- Insulating sleeves in electrical or electronic systems
- Crucible-like use in powder metallurgy or sintering processes



Ceramic Alumina Close One End Tube Process

Raw Material Preparation

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

Forming

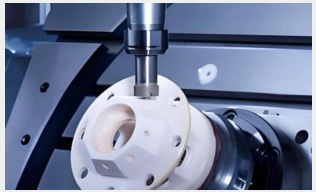
Extrusion: Alumina slurry is extruded through a die into continuous tubular shapes.
Isostatic Pressing: Powder is molded under high pressure to form high-density, uniform tubes.
Slip Casting: Liquid slurry is cast into a mold and solidified.

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.

Alumina Single Bore Tubes Customized Properties:

Property	Unit	99.7% Al2O3	99.5% Al2O3	99% Al2O3	96% Al2O3
Color		Ivory White	Ivory White	Ivory White	Ivory White
Density	g/cm³	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·cm³	$>10^{14}$	$>10^{14}$	$>10^{14}$	$>10^{14}$
Volume Resistivity (300°C)	Ω·cm³	$2*10^{12}$	$2*10^{12}$	$4*10^{11}$	$2*10^{11}$

Technical Advantages

Excellent High-Temperature Resistance

Maximum operating temperature up to 1730° C (99.7% Al2o3), meeting extreme high-temperature environment demands.

Superior Electrical Insulation

Volume resistivity >10^{14} Ω·cm^3, dielectric strength up to 22 AC-kv/mm (5mm thickness).

High Dimensional Accuracy

Tolerance up to ±0.1mm, ensuring precise installation and use.

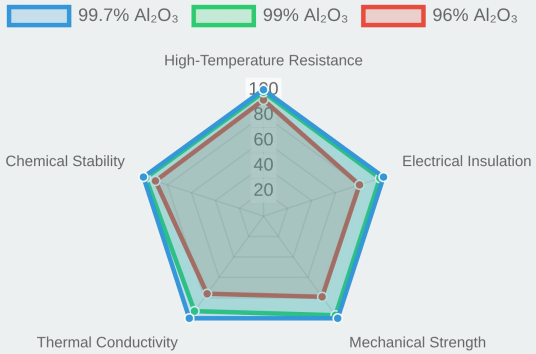
Chemical Stability

Resistant to acids, alkalis, and corrosive gases, suitable for various harsh environments.

Structural Integrity

Flexural strength 330 Mpa, compressive strength 2300 Mpa, with excellent mechanical properties.

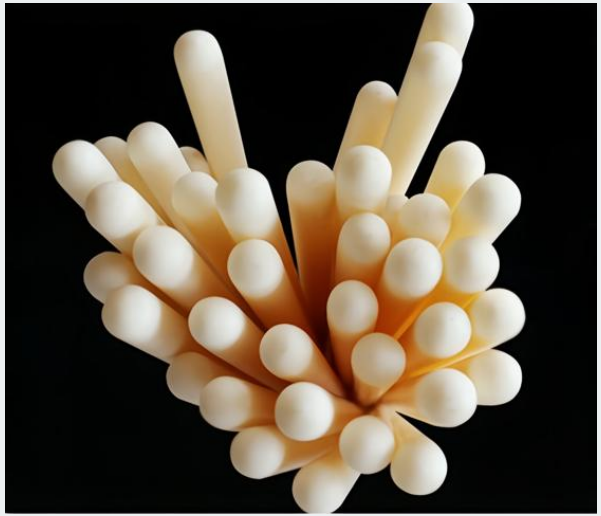
Performance Comparison of Alumina Ceramics with Different Purity



Alumina Tube Closed One End Specifications

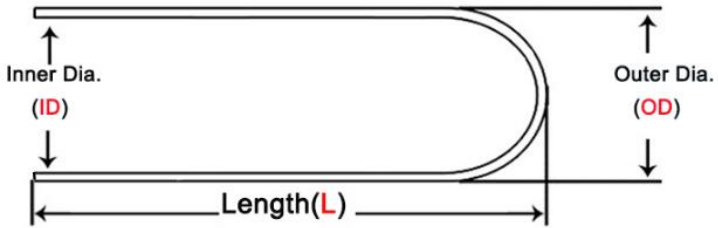
ADCERAX supplies alumina tubes closed one end are improving space efficiency and system integration. These tubes are available in standard sizes or can be customized in terms of outer diameter, hole diameter, length, and end configuration.

Specification Parameter	Details
Product No.	TE-AT-10001
Material	Al2O3(Alumina)
Purity Options	96% / 99% / 99.5% / 99.7%
Max. Working Temp.	1450° C (95%) - 1730° C (99.7%)
Tolerance	±0.05mm to ±5mm (depending on dimensions)
Standard OD Range	3mm to 80mm
Standard ID Range	1mm to 50mm
Standard Length	5-3000mm



- Closed-end design : Ideal for gas-tight applications and sample containment
- High-purity alumina : Ensures chemical inertness and minimal contamination

Alumina Tube Closed One End Size:



Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10001	3	1	5-3000	99
TE-AT-10002	3	1.5	5-3000	99
TE-AT-10003	3	2	5-3000	99
TE-AT-10004	3.2	0.8	5-3000	99
TE-AT-10005	3.2	0.9	5-3000	99
TE-AT-10006	3.5	1.3	5-3000	99
TE-AT-10007	3.5	2	5-3000	99
TE-AT-10008	3.5	2.1	5-3000	99
TE-AT-10009	3.5	2.2	5-3000	99
TE-AT-10010	3.5	2.4	5-3000	99
TE-AT-10011	3.5	2.5	5-3000	99
TE-AT-10012	3.6	0.4	5-3000	99
TE-AT-10013	3.6	0.9	5-3000	99
TE-AT-10014	3.6	1.8	5-3000	99
TE-AT-10015	3.7	0.7	5-3000	99
TE-AT-10016	3.7	2	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10017	3.8	1.1	5-3000	99
TE-AT-10018	3.8	1.8	5-3000	99
TE-AT-10019	4	0.6	5-3000	99
TE-AT-10020	4	0.5	5-3000	99
TE-AT-10021	4	2.0	5-3000	99
TE-AT-10022	4	1.9	5-3000	99
TE-AT-10023	4	2.4	5-3000	99
TE-AT-10024	4	2.5	5-3000	99
TE-AT-10025	4	2.8	5-3000	99
TE-AT-10026	4	3	5-3000	99
TE-AT-10027	4.1	1.7	5-3000	99
TE-AT-10028	4.1	3.1	5-3000	99
TE-AT-10029	4.2	1.2	5-3000	99
TE-AT-10030	4.2	2.4	5-3000	99
TE-AT-10031	4.3	3	5-3000	99
TE-AT-10032	4.4	3	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10033	4.5	1.5	5-3000	99
TE-AT-10034	4.5	2	5-3000	99
TE-AT-10035	4.5	3	5-3000	99
TE-AT-10036	4.6	3.8	5-3000	99
TE-AT-10037	4.7	3	5-3000	99
TE-AT-10038	4.8	0.6	5-3000	99
TE-AT-10039	4.8	3	5-3000	99
TE-AT-10040	4.8	3.3	5-3000	99
TE-AT-10041	4.8	3.5	5-3000	99
TE-AT-10042	4.8	3.8	5-3000	99
TE-AT-10043	4.9	4.3	5-3000	99
TE-AT-10044	5	3	5-3000	99
TE-AT-10045	5	3.5	5-3000	99
TE-AT-10046	5	4	5-3000	99
TE-AT-10047	5.5	3	5-3000	99
TE-AT-10048	5.5	4	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10049	5.8	4.2	5-3000	99
TE-AT-10050	6	1.5	5-3000	99
TE-AT-10051	6	2	5-3000	99
TE-AT-10052	6	3	5-3000	99
TE-AT-10053	6	3.5	5-3000	99
TE-AT-10054	6	4.5	5-3000	99
TE-AT-10055	6.3	3.2	5-3000	99
TE-AT-10056	6.35	4	5-3000	99
TE-AT-10057	6.35	4.5	5-3000	99
TE-AT-10058	6.5	3	5-3000	99
TE-AT-10059	6.7	3	5-3000	99
TE-AT-10060	6.7	4	5-3000	99
TE-AT-10061	7	3	5-3000	99
TE-AT-10062	7	4	5-3000	99
TE-AT-10063	7	4.5	5-3000	99
TE-AT-10064	7	5	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10065	7.5	2	5-3000	99
TE-AT-10066	7.5	3	5-3000	99
TE-AT-10067	7.5	4	5-3000	99
TE-AT-10068	8	1	5-3000	99
TE-AT-10069	8	2	5-3000	99
TE-AT-10070	8	2.5	5-3000	99
TE-AT-10071	8	3	5-3000	99
TE-AT-10072	8	3.5	5-3000	99
TE-AT-10073	8	4	5-3000	99
TE-AT-10074	8	5	5-3000	99
TE-AT-10075	8.5	2	5-3000	99
TE-AT-10076	8.5	5	5-3000	99
TE-AT-10077	9	2	5-3000	99
TE-AT-10078	9	2.5	5-3000	99
TE-AT-10079	9	3	5-3000	99
TE-AT-10080	9	3.5	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10081	9	4	5-3000	99
TE-AT-10082	9	5	5-3000	99
TE-AT-10083	9	6	5-3000	99
TE-AT-10084	9	7	5-3000	99
TE-AT-10085	9.5	3	5-3000	99
TE-AT-10086	9.5	3.5	5-3000	99
TE-AT-10087	9.5	4.5	5-3000	99
TE-AT-10088	9.5	5.5	5-3000	99
TE-AT-10089	9.5	6	5-3000	99
TE-AT-10090	9.5	7	5-3000	99
TE-AT-10091	10	1	5-3000	99
TE-AT-10092	10	3.5	5-3000	99
TE-AT-10093	10	4	5-3000	99
TE-AT-10094	10	2	5-3000	99
TE-AT-10095	10	2.5	5-3000	99
TE-AT-10096	10	4.5	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10097	10	5	5-3000	99
TE-AT-10098	10	5.5	5-3000	99
TE-AT-10099	10	6	5-3000	99
TE-AT-10100	10	6.5	5-3000	99
TE-AT-10101	10	7	5-3000	99
TE-AT-10102	10	8	5-3000	99
TE-AT-10103	11	1	5-3000	99
TE-AT-10104	11	3	5-3000	99
TE-AT-10105	11	3.5	5-3000	99
TE-AT-10106	11	4	5-3000	99
TE-AT-10107	11	5	5-3000	99
TE-AT-10108	11	7	5-3000	99
TE-AT-10109	12	7	5-3000	99
TE-AT-10110	12	8	5-3000	99
TE-AT-10111	12	9	5-3000	99
TE-AT-10112	12	10	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10113	13	7	5-3000	99
TE-AT-10114	13	8	5-3000	99
TE-AT-10115	13	9	5-3000	99
TE-AT-10116	13	10	5-3000	99
TE-AT-10117	13	6	5-3000	99
TE-AT-10118	14	3	5-3000	99
TE-AT-10119	14	4	5-3000	99
TE-AT-10120	14	6	5-3000	99
TE-AT-10121	14	9	5-3000	99
TE-AT-10122	14	10	5-3000	99
TE-AT-10123	15	6	5-3000	99
TE-AT-10124	15	7	5-3000	99
TE-AT-10125	15	8	5-3000	99
TE-AT-10126	15	9	5-3000	99
TE-AT-10127	15	10	5-3000	99
TE-AT-10128	15	11	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10129	16	6	5-3000	99
TE-AT-10130	16	8	5-3000	99
TE-AT-10131	16	9	5-3000	99
TE-AT-10132	16	10	5-3000	99
TE-AT-10133	16	11	5-3000	99
TE-AT-10134	16	12	5-3000	99
TE-AT-10135	17	1	5-3000	99
TE-AT-10136	17	10	5-3000	99
TE-AT-10137	17	11	5-3000	99
TE-AT-10138	17	12	5-3000	99
TE-AT-10139	17	13	5-3000	99
TE-AT-10140	17	14	5-3000	99
TE-AT-10141	18	10	5-3000	99
TE-AT-10142	18	11	5-3000	99
TE-AT-10143	18	12	5-3000	99
TE-AT-10144	18	13	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10145	18	14	5-3000	99
TE-AT-10146	18	8.5	5-3000	99
TE-AT-10147	19	1	5-3000	99
TE-AT-10148	19	9	5-3000	99
TE-AT-10149	19	10	5-3000	99
TE-AT-10150	19	11	5-3000	99
TE-AT-10151	19	12	5-3000	99
TE-AT-10152	19	13	5-3000	99
TE-AT-10153	19	14	5-3000	99
TE-AT-10154	19	15	5-3000	99
TE-AT-10155	20	8	5-3000	99
TE-AT-10156	20	10	5-3000	99
TE-AT-10157	20	11	5-3000	99
TE-AT-10158	20	14	5-3000	99
TE-AT-10159	20	15	5-3000	99
TE-AT-10160	20	16	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10161	20	17	5-3000	99
TE-AT-10162	21	3	5-3000	99
TE-AT-10163	21	2.5	5-3000	99
TE-AT-10164	21	10	5-3000	99
TE-AT-10165	21	14	5-3000	99
TE-AT-10166	21	16	5-3000	99
TE-AT-10167	22	2.5	5-3000	99
TE-AT-10168	22	16	5-3000	99
TE-AT-10169	22	17	5-3000	99
TE-AT-10170	22	19	5-3000	99
TE-AT-10171	23	3.5	5-3000	99
TE-AT-10172	23	12	5-3000	99
TE-AT-10173	23	15	5-3000	99
TE-AT-10174	23	16	5-3000	99
TE-AT-10175	23	17	5-3000	99
TE-AT-10176	23	18	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10177	23	19	5-3000	99
TE-AT-10178	24	5	5-3000	99
TE-AT-10179	24	17	5-3000	99
TE-AT-10180	24	18	5-3000	99
TE-AT-10181	24	19	5-3000	99
TE-AT-10182	24	14	5-3000	99
TE-AT-10183	25	14	5-3000	99
TE-AT-10184	25	15	5-3000	99
TE-AT-10185	25	16	5-3000	99
TE-AT-10186	25	17	5-3000	99
TE-AT-10187	25	18	5-3000	99
TE-AT-10188	25	19	5-3000	99
TE-AT-10189	25	20	5-3000	99
TE-AT-10190	25	21	5-3000	99
TE-AT-10191	26	8	5-3000	99
TE-AT-10192	26	14	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity（%）
TE-AT-10193	26	15	5-3000	99
TE-AT-10194	26	16	5-3000	99
TE-AT-10195	26	17	5-3000	99
TE-AT-10196	26	18	5-3000	99
TE-AT-10197	26	19	5-3000	99
TE-AT-10198	26	20	5-3000	99
TE-AT-10199	26	21	5-3000	99
TE-AT-10200	27	21	5-3000	99
TE-AT-10201	27	22	5-3000	99
TE-AT-10202	28	19	5-3000	99
TE-AT-10203	28	20	5-3000	99
TE-AT-10204	28	21	5-3000	99
TE-AT-10205	28	22	5-3000	99
TE-AT-10206	28	23	5-3000	99
TE-AT-10207	28	23.5	5-3000	99
TE-AT-10208	28	24	5-3000	99

Alumina Tube Closed One End Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity （%）
TE-AT-10209	28	25	5-3000	99
TE-AT-10210	29	23	5-3000	99
TE-AT-10211	29	24	5-3000	99
TE-AT-10212	29	25	5-3000	99
TE-AT-10213	30	15	5-3000	99
TE-AT-10214	30	20	5-3000	99
TE-AT-10215	30	21	5-3000	99
TE-AT-10216	30	22	5-3000	99
TE-AT-10217	30	24	5-3000	99
TE-AT-10218	30	26	5-3000	99
TE-AT-10219	31	23	5-3000	99
TE-AT-10220	31	25	5-3000	99
TE-AT-10221	31	26	5-3000	99
TE-AT-10222	31	27	5-3000	99
TE-AT-10223	32	26	5-3000	99
TE-AT-10224	32	27	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity （%）
TE-AT-10225	33	28	5-3000	99
TE-AT-10226	34	18	5-3000	99
TE-AT-10227	34	22	5-3000	99
TE-AT-10228	34	23	5-3000	99
TE-AT-10229	34	30	5-3000	99
TE-AT-10230	35	27	5-3000	99
TE-AT-10231	35	29.5	5-3000	99
TE-AT-10232	36	30	5-3000	99
TE-AT-10233	36	31	5-3000	99
TE-AT-10234	37	29	5-3000	99
TE-AT-10235	37	31.5	5-3000	99
TE-AT-10236	37	32	5-3000	99
TE-AT-10237	38	31	5-3000	99
TE-AT-10238	45	38.5	5-3000	99
TE-AT-10239	46	38.5	5-3000	99
TE-AT-10240	60	30	5-3000	99

Note: The table above shows only some standard specifications. For more specifications, please refer to the complete product catalogue or contact us for customization.

Alumina Tube Closed One End Applications

Industrial Thermocouple – Sensor Protection

Key Advantages

1. Hermetic Tip Isolation — Monolithic closed tip (apparent porosity ≤0.5%) blocks corrosive gases and molten splash, protecting the hot junction up to 1,600–1,700 ° C and stabilizing EMF output.

2. Response–Strength Balance by Tip Geometry — 2–3 mm tip thickness with 1–2 mm wall achieves t63 ≤ 4 s at 1,000 ° C while withstanding thermal shock of ΔT ≈ 200 ° C/cycle.

3. High-Temperature Electrical Insulation — Dielectric strength ≥12 kV/mm and volume resistivity ≥1×10⁸ Ω·cm at 1,000 ° C maintain signal integrity and reduce drift in carburizing/nitriding atmospheres.

Solution

Steel heat-treatment line (carburizing/nitriding, 950–1,050 °C): Bare Type N probes in metal sheaths showed gas attack and ±10 °C drift after 200 h, with replacements every ~3 weeks.
Action: Switched to Alumina Tube Closed One End (Ø10 × 1.5 mm, tip 3 mm, ≥99.5% Al_2O_3), tip sealed with ceramic cement and recalibrated.

University Laboratory – Thermal Analysis

Key Advantages

1. High-purity containment for trace-level analysis
99.5% Al_2O_3 purity minimizes background interference in TGA below 0.01% mass deviation.2. Gas-tight sealed end for controlled atmosphere testing
Closed-end design maintains inert gas environment with leakage rate under 1×10^{-6} mbar·L/s.

3. Precision fit reduces thermal drift in repeated cycles
±0.1mm dimensional tolerance ensures consistent sample positioning across >100 test runs.

Solution

At a German university, inconsistent TGA results were traced to open-end tubes, causing oxygen ingress. Switching to closed-end alumina tubes reduced sample oxidation variance by 87% and improved repeatability across 120 thermal cycles, enabling accurate decomposition profiling of nanomaterials under argon atmosphere.

Electronics Industry – Sensor Encapsulation in High-Temperature Testing

Key Advantages

1. Sealed-end design blocks flux vapour intrusion during reflow simulation
Closed-end structure prevents ionic contamination, maintaining sensor stability above 1500°C.

2. High insulation resistance ensures signal integrity in harsh test cycles
Maintains >10⁶ Ω·cm dielectric strength under thermal stress across 300 cycles.

3. Dimensional consistency supports repeatable sensor alignment
±0.1 mm tolerance enables precise sensor positioning in automated test sockets.

Solution

A Japanese semiconductor lab, sensor drift during 1500°C reflow simulation caused 22% test failure in power IC modules. After adopting closed-end alumina tubes for sensor encapsulation, the failure rate dropped to 13.6%, and signal noise was reduced by 41%, enabling the qualification of next-gen SiC devices under JEDEC standards.

Ceramic Alumina Close One End Tube

ADCERAX offers comprehensive customization services based on your technical drawings or specifications to meet your specific needs.These tubes are available in standard sizes or can be customized in terms of length, diameter, wall thickness, and end geometry.

Customizable Parameters

Dimensional Accuracy
OD:3-220mm ID: 1-200mm(±0.05-5mm tolerance) contact us for other sizes.

Length
Up to 3000mm

End Types
Open, closed, flanged

Cross-Sectional Shapes
Round, square, rectangular, or custom cavity

Surface Finish
Raw, polished, or Glazed

Material Purity
96%, 99%, 99.5%, or 99.7%

Customization Process

1. **Inquiry & Design** — Submit your **detailed** requirements
2. **Mold & Samples** — Proceed with mold/sample creation
3. **Confirmation** — Confirm specifications and contract
4. **Delivery** — Safe and efficient shipping

Special Processing Options

- Cutting
- Drilling
- Threading
- Slotting
- Custom Shapes
- Grinding

Fast Response Commitment

From drawing confirmation to functional prototype delivery

15 Days

Alumina Tube Closed One End Usage Guide:

Installation & Operation Tips

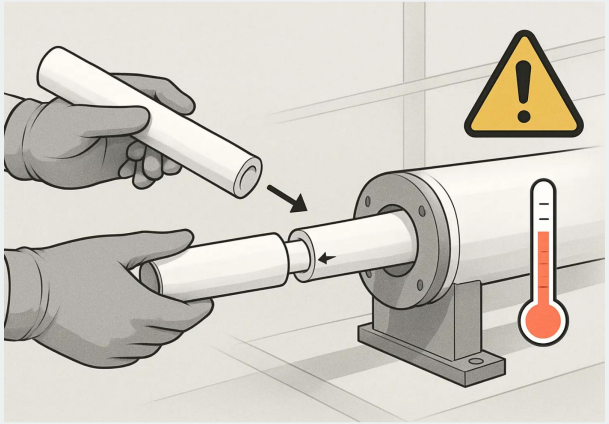
- Ensure ceramic tubes and connecting parts are clean before installation.
- Use appropriate support devices to fix the ceramic tube.
- Control heating and cooling rates at 3-5° C/minute.
- Use specialized ceramic flanges or sealing rings for connections.

Maintenance & Care

- Regularly check ceramic tube surfaces for cracks or damage.
- Clean with a soft cloth and neutral detergent.
- Store in a dry environment when not in use for long periods.

Common Mistakes

- Over-tightening clamps can cause cracking
- Rapid heating without preheating may lead to thermal stress



Technical Support

Technical Inquiry: info@adcerax.com

Service Hotline: +86-0731-84428843

Whatsapp: +86-19311583352

Alumina Tube Closed One End FAQ:

- **Q: Can alumina tubes with closed one end be customized?**
  A: Yes, alumina tubes with closed one end can be customized to meet specific requirements. We offer different diameters, lengths, and thicknesses to suit various applications, ensuring that the tubes meet your precise needs.
- **Q: What is the maximum temperature that alumina tubes closed one end can withstand?**
  A:Alumina tubes closed one end are designed to handle high temperatures, often withstanding up to 1730° C , depending on the purity and composition of the alumina material. This makes them ideal for use in high-temperature kilns.
- **Q:Are alumina tubes with one end closed chemically resistant?**
  A:Yes, alumina tubes closed one end are highly resistant to chemical corrosion, making them suitable for use in environments where chemical exposure is common. They are commonly used in laboratories, chemical plants, and other industries where chemical stability is crucial.
- **Q: How are alumina tubes with closed one end used in electronics?**
  A: In electronics, alumina tubes closed one end are used for insulation purposes. They protect sensitive electronic components from heat and electrical interference, ensuring the longevity and efficiency of devices like resistors, capacitors, and semiconductors.
- **Q: What is the difference between alumina tubes with one closed end and open-end tubes?**
  A: The key difference is that alumina tubes closed one end have one sealed end, providing a contained environment, while open-end alumina tubes have both ends open. The closed-end design is ideal for applications where containment or protection is necessary, such as in reactors, and specific laboratory setups.

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

Supporting Products

- Ceramic Flanges
- Ceramic Plugs
- Ceramic Brackets
- Thermocouple Protection Tubes

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 high-quality alumina ceramic tube 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 a Quote Now

We promise to respond to your inquiry within 24 hours.

Ready to enhance your product performance with ceramic alumina close one end tube? Contact our team for personalized consultation, technical support, and competitive quotations.

Get A Quote