

Alumina Ceramic Open Tubes

High-Quality Alumina Ceramic Open 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



What is alumina ceramic open tubes?

Alumina ceramic open tubes are cylindrical components made from high-purity aluminum oxide (Al_2O_3), designed with both ends open to allow the passage of gases, liquids, or probes.

They are commonly used in:

- ◆ Thermocouple protection in kiln
- ◆ Gas flow systems in laboratory or industrial setups
- ◆ Insulation sleeves in heating elements
- ◆ Sample containment in chemical analysis or sintering processes



Open Ends Alumina Tubes 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 $1600\text{--}1700^\circ\text{C}$) 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 Open Tube 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

 **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 >10¹⁴ Ω·cm³, dielectric strength up to 22 AC-kv/mm (5mm thickness).

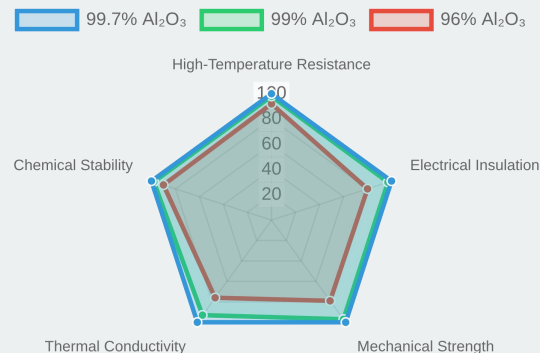
 **High Dimensional Accuracy**
Tolerance up to ±0.1mm, ensuring precise installation and use.

 **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



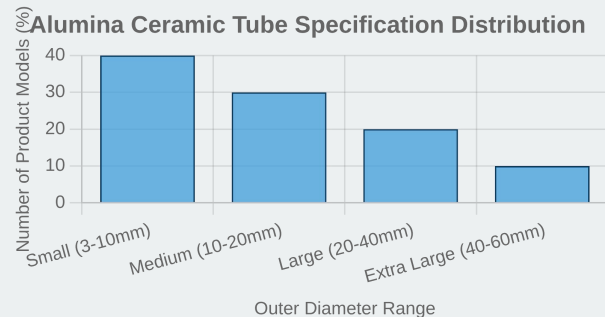
Alumina Ceramic Open Tube Specifications

Alumina ceramic open tubes are precision-engineered ceramic products designed for high-temperature industrial applications. Primarily used for thermal insulation, gas flow, and sensor protection.

Specification Parameter	Details
Product No.	TE-AT-20001
Material	Al ₂ O ₃ (Alumina)
Purity Options	95% / 99% / 99.5% / 99.7%
Max. Working Temp.	1450° C (95%) - 1730° C (99.7%)
Standard OD Range	3mm to 60mm(contact us for other sizes.)
Standard ID Range	0.4mm to 38.5mm (contact us for other sizes.)

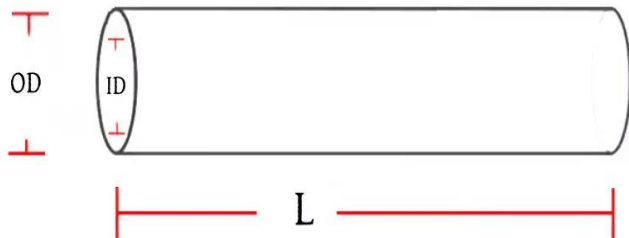
Alumina Tube Open Both Ends Features

- ✓ High Temperature Stability
- ✓ Excellent Electrical Insulation
- ✓ High Dimensional Accuracy
- ✓ Good Chemical Stability



Alumina Ceramic Open Tube Size:

Type1-Al₂O₃ Tubes Open Both with Square Bore



Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20001	3	2	5-3000	99
TE-AT-20002	3.5	2	5-3000	99
TE-AT-20003	3.5	2.1	5-3000	99
TE-AT-20004	3.5	2.2	5-3000	99
TE-AT-20005	3.5	2.4	5-3000	99
TE-AT-20006	3.5	2.5	5-3000	99
TE-AT-20007	3.6	1.8	5-3000	99
TE-AT-20008	3.7	2	5-3000	99
TE-AT-20009	3.8	1.8	5-3000	99
TE-AT-20010	4	2.0	5-3000	99
TE-AT-20011	4	1.9	5-3000	99
TE-AT-20012	4	2.4	5-3000	99
TE-AT-20013	4	2.5	5-3000	99
TE-AT-20014	4	2.8	5-3000	99
TE-AT-20015	4	3	5-3000	99
TE-AT-20016	4.1	1.7	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20017	4.1	3.1	5-3000	99
TE-AT-20018	4.2	2.4	5-3000	99
TE-AT-20019	4.3	3	5-3000	99
TE-AT-20020	4.4	3	5-3000	99
TE-AT-20021	4.5	2	5-3000	99
TE-AT-20022	4.5	3	5-3000	99
TE-AT-20023	4.6	3.8	5-3000	99
TE-AT-20024	4.7	3	5-3000	99
TE-AT-20025	4.8	3	5-3000	99
TE-AT-20026	4.8	3.3	5-3000	99
TE-AT-20027	4.8	3.5	5-3000	99
TE-AT-20028	4.8	3.8	5-3000	99
TE-AT-20029	4.9	4.3	5-3000	99
TE-AT-20030	5	3	5-3000	99
TE-AT-20031	5	3.5	5-3000	99
TE-AT-20032	5	4	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20033	5.5	3	5-3000	99
TE-AT-20034	5.5	4	5-3000	99
TE-AT-20035	5.8	4.2	5-3000	99
TE-AT-20036	6	2	5-3000	99
TE-AT-20037	6	3	5-3000	99
TE-AT-20038	6	3.5	5-3000	99
TE-AT-20039	6	4.5	5-3000	99
TE-AT-20040	6.3	3.2	5-3000	99
TE-AT-20041	6.35	4	5-3000	99
TE-AT-20042	6.35	4.5	5-3000	99
TE-AT-20043	6.5	3	5-3000	99
TE-AT-20044	6.7	3	5-3000	99
TE-AT-20045	6.7	4	5-3000	99
TE-AT-20046	7	3	5-3000	99
TE-AT-20047	7	4	5-3000	99
TE-AT-20048	7	4.5	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20049	7	5	5-3000	99
TE-AT-20050	7.5	2	5-3000	99
TE-AT-20051	7.5	3	5-3000	99
TE-AT-20052	7.5	4	5-3000	99
TE-AT-20053	8	2	5-3000	99
TE-AT-20054	8	2.5	5-3000	99
TE-AT-20055	8	3	5-3000	99
TE-AT-20056	8	3.5	5-3000	99
TE-AT-20057	8	4	5-3000	99
TE-AT-20058	8	5	5-3000	99
TE-AT-20059	8.5	2	5-3000	99
TE-AT-20060	8.5	5	5-3000	99
TE-AT-20066	9	5	5-3000	99
TE-AT-20061	9	2	5-3000	99
TE-AT-20062	9	2.5	5-3000	99
TE-AT-20063	9	3	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20064	9	3.5	5-3000	99
TE-AT-20065	9	4	5-3000	99
TE-AT-20066	9	5	5-3000	99
TE-AT-20067	9	6	5-3000	99
TE-AT-20068	9	7	5-3000	99
TE-AT-20069	9.5	3	5-3000	99
TE-AT-20070	9.5	3.5	5-3000	99
TE-AT-20071	9.5	4.5	5-3000	99
TE-AT-20072	9.5	5.5	5-3000	99
TE-AT-20073	9.5	6	5-3000	99
TE-AT-20074	9.5	7	5-3000	99
TE-AT-20075	10	3.5	5-3000	99
TE-AT-20076	10	4	5-3000	99
TE-AT-20077	10	2	5-3000	99
TE-AT-20078	10	2.5	5-3000	99
TE-AT-20079	10	4.5	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20081	10	5.5	5-3000	99
TE-AT-20082	10	6	5-3000	99
TE-AT-20083	10	6.5	5-3000	99
TE-AT-20084	10	7	5-3000	99
TE-AT-20085	10	8	5-3000	99
TE-AT-20086	11	3	5-3000	99
TE-AT-20087	11	3.5	5-3000	99
TE-AT-20088	11	4	5-3000	99
TE-AT-20089	11	5	5-3000	99
TE-AT-20090	11	7	5-3000	99
TE-AT-20091	12	7	5-3000	99
TE-AT-20092	12	8	5-3000	99
TE-AT-20093	12	9	5-3000	99
TE-AT-20094	12	10	5-3000	99
TE-AT-20095	13	7	5-3000	99
TE-AT-20096	13	8	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20097	13	9	5-3000	99
TE-AT-20098	13	10	5-3000	99
TE-AT-20099	13	6	5-3000	99
TE-AT-20100	14	3	5-3000	99
TE-AT-20101	14	4	5-3000	99
TE-AT-20102	14	6	5-3000	99
TE-AT-20103	14	9	5-3000	99
TE-AT-20104	14	10	5-3000	99
TE-AT-20105	15	6	5-3000	99
TE-AT-20106	15	7	5-3000	99
TE-AT-20107	15	8	5-3000	99
TE-AT-20108	15	9	5-3000	99
TE-AT-20109	15	10	5-3000	99
TE-AT-20110	15	11	5-3000	99
TE-AT-20111	16	6	5-3000	99
TE-AT-20112	16	8	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20113	16	9	5-3000	99
TE-AT-20114	16	10	5-3000	99
TE-AT-20115	16	11	5-3000	99
TE-AT-20116	16	12	5-3000	99
TE-AT-20117	17	10	5-3000	99
TE-AT-20118	17	11	5-3000	99
TE-AT-20119	17	12	5-3000	99
TE-AT-20120	17	13	5-3000	99
TE-AT-20121	17	14	5-3000	99
TE-AT-20122	18	10	5-3000	99
TE-AT-20123	18	11	5-3000	99
TE-AT-20124	18	12	5-3000	99
TE-AT-20125	18	13	5-3000	99
TE-AT-20126	18	14	5-3000	99
TE-AT-20127	18	8.5	5-3000	99
TE-AT-20128	19	9	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20129	19	10	5-3000	99
TE-AT-20130	19	11	5-3000	99
TE-AT-20131	19	12	5-3000	99
TE-AT-20132	19	13	5-3000	99
TE-AT-20133	19	14	5-3000	99
TE-AT-20134	19	15	5-3000	99
TE-AT-20135	20	8	5-3000	99
TE-AT-20136	20	10	5-3000	99
TE-AT-20137	20	11	5-3000	99
TE-AT-20138	20	14	5-3000	99
TE-AT-20139	20	15	5-3000	99
TE-AT-20140	20	16	5-3000	99
TE-AT-20141	20	17	5-3000	99
TE-AT-20142	21	3	5-3000	99
TE-AT-20143	21	2.5	5-3000	99
TE-AT-20144	21	10	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20145	21	14	5-3000	99
TE-AT-20146	21	16	5-3000	99
TE-AT-20147	22	2.5	5-3000	99
TE-AT-20148	22	16	5-3000	99
TE-AT-20149	22	17	5-3000	99
TE-AT-20150	22	19	5-3000	99
TE-AT-20151	23	3.5	5-3000	99
TE-AT-20152	23	12	5-3000	99
TE-AT-20153	23	15	5-3000	99
TE-AT-20154	23	16	5-3000	99
TE-AT-20155	23	17	5-3000	99
TE-AT-20156	23	18	5-3000	99
TE-AT-20157	23	19	5-3000	99
TE-AT-20158	24	5	5-3000	99
TE-AT-20159	24	17	5-3000	99
TE-AT-20160	24	18	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20161	24	19	5-3000	99
TE-AT-20162	24	14	5-3000	99
TE-AT-20163	25	14	5-3000	99
TE-AT-20164	25	15	5-3000	99
TE-AT-20165	25	16	5-3000	99
TE-AT-20166	25	17	5-3000	99
TE-AT-20167	25	18	5-3000	99
TE-AT-20168	25	19	5-3000	99
TE-AT-20169	25	20	5-3000	99
TE-AT-20170	25	21	5-3000	99
TE-AT-20171	26	8	5-3000	99
TE-AT-20172	26	14	5-3000	99
TE-AT-20173	26	15	5-3000	99
TE-AT-20174	26	16	5-3000	99
TE-AT-20175	26	17	5-3000	99
TE-AT-20176	26	18	5-3000	99

Alumina Ceramic Open Tube Size:

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20177	26	19	5-3000	99
TE-AT-20178	26	20	5-3000	99
TE-AT-20179	26	21	5-3000	99
TE-AT-20180	27	21	5-3000	99
TE-AT-20181	27	22	5-3000	99
TE-AT-20182	28	19	5-3000	99
TE-AT-20183	28	20	5-3000	99
TE-AT-20184	28	21	5-3000	99
TE-AT-20185	28	22	5-3000	99
TE-AT-20186	28	23	5-3000	99
TE-AT-20187	28	23.5	5-3000	99
TE-AT-20188	28	24	5-3000	99
TE-AT-20189	28	25	5-3000	99
TE-AT-20190	29	23	5-3000	99
TE-AT-20191	29	24	5-3000	99
TE-AT-20192	29	25	5-3000	99

Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20193	30	15	5-3000	99
TE-AT-20194	30	20	5-3000	99
TE-AT-20195	30	21	5-3000	99
TE-AT-20196	30	22	5-3000	99
TE-AT-20197	30	24	5-3000	99
TE-AT-20198	30	26	5-3000	99
TE-AT-20199	31	23	5-3000	99
TE-AT-20200	31	25	5-3000	99
TE-AT-20201	31	26	5-3000	99
TE-AT-20202	31	27	5-3000	99
TE-AT-20203	32	26	5-3000	99
TE-AT-20204	32	27	5-3000	99
TE-AT-20205	33	28	5-3000	99
TE-AT-20206	34	18	5-3000	99
TE-AT-20207	34	22	5-3000	99
TE-AT-20208	34	23	5-3000	99

Alumina Ceramic Open Tube Size:

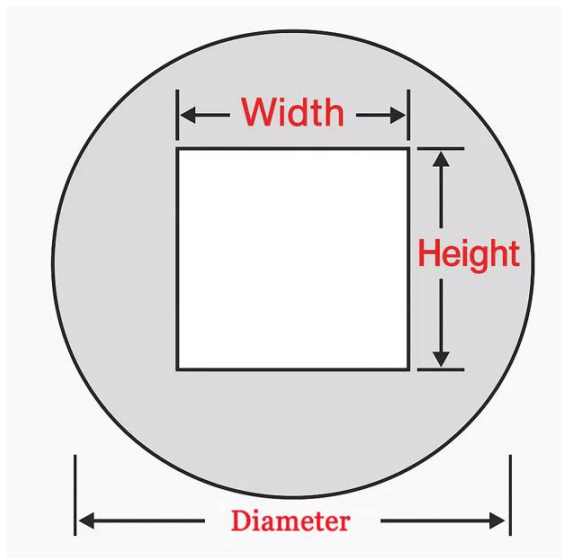
Item No.	OD(mm)	ID(mm)	L(mm)	Purity (%)
TE-AT-20209	34	30	5-3000	99
TE-AT-20210	35	27	5-3000	99
TE-AT-20211	35	29.5	5-3000	99
TE-AT-20212	36	30	5-3000	99
TE-AT-20213	36	31	5-3000	99
TE-AT-20214	37	29	5-3000	99
TE-AT-20215	37	31.5	5-3000	99
TE-AT-20216	37	32	5-3000	99
TE-AT-20217	38	31	5-3000	99
TE-AT-20218	45	38.5	5-3000	99
TE-AT-20219	46	38.5	5-3000	99
TE-AT-20220	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 Ceramic Open Tube Size:

Type2-Al₂O₃ Open Tubes with Square Bore



Item No.	Width (mm)	Height (mm)	Bore Dia (mm)	Length (mm)
TE-AT-50026	2	1.3	0.9	≤2000
TE-AT-50027	10	2	1	≤2000
TE-AT-50028	15	4	3	≤2000
TE-AT-50029	20	3.5	3.5	≤2000
TE-AT-50030	24	7	6	≤2000
TE-AT-50031	25.5	7.5	5	≤2000
TE-AT-50032	29	6	4.5	≤2000
TE-AT-50033	30	10	8	≤2000
TE-AT-50034	35	10	7.5	≤2000
TE-AT-50035	37.5	11	11	≤2000
TE-AT-50036	40	9.5	7	≤2000

*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 Ceramic Open Tube Applications:

Alumina ceramic open tubes are widely used in multiple industrial fields due to their excellent high-temperature resistance, insulation, and chemical stability.

Electronics & Semiconductors

Chip production equipment
Diffusion furnace components
Crystal growth furnace components

High-Temperature Industry

Thermocouple protection tubes
Curtain furnace components
Furnace linings

Mechanical Industry

Wear-resistant parts: nozzles
Bearings, sealing rings
Wire drawing dies

Laboratory Equipment

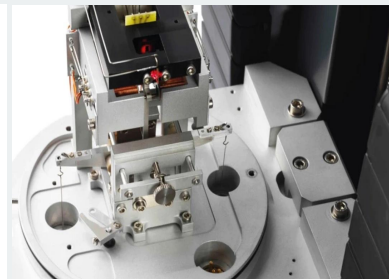
High-temperature furnace tubes
Gas analysis instruments
Reaction vessels

Customer Pain Point Solutions

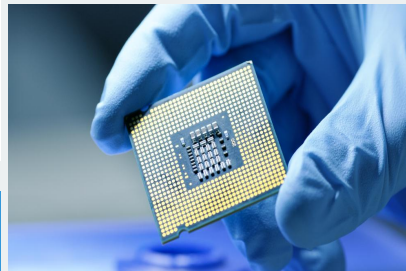
- ✓ Unstable delivery → 15-day fast response guarantee
- ✓ Tolerance issues → $\pm 0.1\text{mm}$ high-precision customization



High-Temperature Industry



Laboratory Equipment



Electronics & Semiconductors



Mechanical Industry

Alumina Ceramic Open Tube Customize:

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

flanged

Processing type

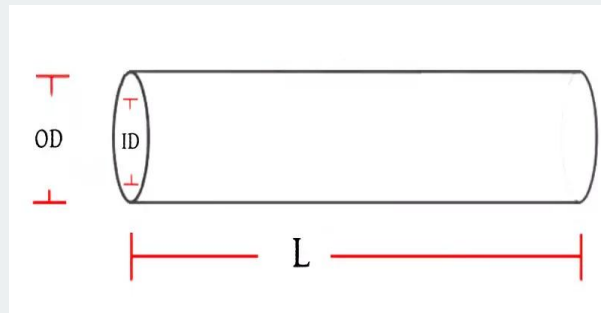
CNC, plane grinding, internal grinding, drilling, cutting

Surface Finish

Raw, polished, or sandblasted

Material Purity

96%, 99%, 99.5%, or 99.7%



Customization Process



Fast Response Commitment

From drawing confirmation to functional
prototype delivery

15 Days

Alumina Ceramic Open Tube Usage Guide:

Installation & Operation Tips

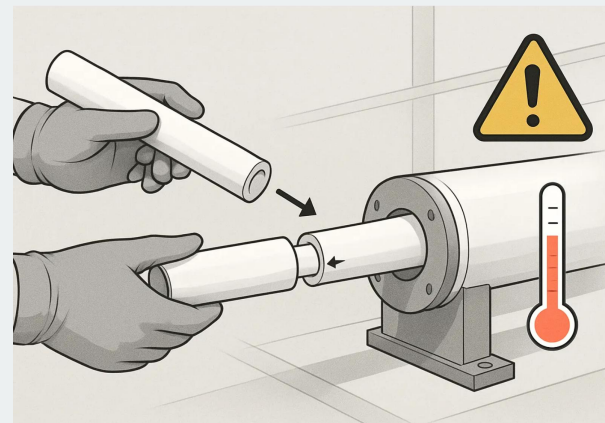
- ✓ Ensure ceramic tubes and connecting parts are clean before installation.
- ✓ Use appropriate support devices to fix the ceramic tube.
- ✓ Control heating and cooling rates at 3-5° C/minute.
- ✓ Use specialized ceramic flanges or sealing rings for connections.

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 Ceramic Open Tube FAQ:

✓ **Q: What temperature range are alumina ceramic open tubes suitable for?**

A: Operating temperatures range from 1450° C (96% Al₂O₃) to 1730° C (99.7% Al₂O₃).

✓ **Q: How to ensure alumina ceramic open pipes long-term stable operation?**

A: Control temperature change rates, avoid mechanical impact, use appropriate support methods.

✓ **Q: Can i customize the size of alumina ceramic open tubes?**

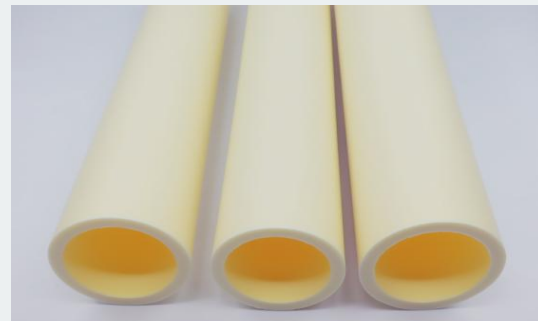
A: Yes, we offer customized alumina ceramic open tubes in various sizes, including different outer and inner diameters, lengths, and purity levels. Please contact us to discuss your specific requirements.

✓ **Q: What are the benefits of using alumina ceramic open tubes compared to other materials?**

A: The alumina ceramic open tubes offer superior thermal and electrical insulation, as well as excellent resistance to chemical corrosion, making them more reliable than materials like stainless steel or glass in certain high-performance applications.

✓ **Q: Do alumina ceramic open pipes require special maintenance?**

A: No, alumina ceramic open pipes are low-maintenance products due to their durability and resistance to wear and corrosion. However, periodic inspection is recommended to ensure optimal performance in high-stress environments.



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 Brackets

● Ceramic Plugs

● 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 open tube solutions. Our team is dedicated to serving you with any questions or needs you may have.

Contact Information

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- info@adcerax.com
- +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 our high-quality alumina ceramic open tubes? Contact our team for personalized consultation, technical support, and competitive quotations.

[Get A Quote](#)