



DSC Alumina Crucible


High Quality DSC Alumina Crucibles with Lid for Lab Analysis

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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 DSC Alumina Crucible?

DSC alumina crucible is a small high-purity aluminum oxide ceramic sample pan used in Differential Scanning Calorimetry (DSC) to hold powder, granules, or small solid samples during heating and cooling tests.

DSC alumina crucibles are commonly used for:

- ◆ ceramic powders
- ◆ mineral materials
- ◆ oxides
- ◆ catalysts
- ◆ battery materials
- ◆ inorganic compounds
- ◆ high-temperature research samples

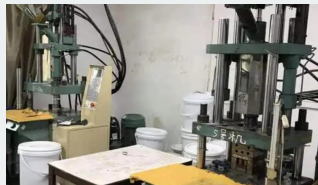


DSC Alumina Crucible Process



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 shapes.

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.

Technical Advantages


What matters most to DSC buyers: signal quality, chemical stability, and repeatable fit.

 **Stable heat flow**


Flat-bottom geometry supports more uniform heat transfer and more consistent baselines in repeated DSC runs.

 **High-temperature headroom**

Dense alumina performs where aluminum pans reach their thermal limits, helping with demanding ramp or hold programs.

 **Chemical inertness**


High-purity Al₂O₃ reduces interaction with oxidizing, reactive, or filled samples compared with softer metallic pans.

 **Reusable cost control**

When handled and cleaned correctly, the crucibles can be reused, reducing per-test consumable cost.

 **Method flexibility**

Available lid styles and multiple capacities let buyers balance sealing, venting, and sample geometry.

 **Global OEM Supply**

Factory-direct pricing, 24h dispatch for standard sizes

Choose alumina when data integrity and temperature margin matter more than the lowest disposable pan cost.

DSC 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 |

DSC Alumina Crucible

DSC Alumina Crucibles for Stable Heat-Flow Testing

SPECIFICATIONS

| | |
|---------------------------------------|--|
| Al ₂ O ₃ Purity | ≥99% Al ₂ O ₃ |
| Dimensional Tolerance | ±0.2 mm Standard Custom ±0.1 mm Available |
| Typical Capacity | 30 μL – 900 μL |
| Bottom Design | Flat-Bottom Pan |
| Customization | Depth, Wall Thickness and Lid Style Available |

APPLICATIONS

Differential Scanning Calorimetry · Polymer Analysis · Blend Analysis · Reactive Sample Testing · Elevated-Temperature DSC Runs



KEY FEATURES

- 1 Flat-bottom alumina bodies support uniform heat transfer and stable baselines
- 2 Higher temperature capability than aluminum pans for demanding DSC programs
- 3 Dense alumina helps reduce reactions with aggressive or oxidizing samples
- 4 Reusable design and flexible lid options support lower test cost and better sample control

DSC Alumina Crucible Specifications:

Type 1: Mettler Toledo Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|-------------------------------------|----------|--------------------------|---|
| AT-MA-001 | Alumina crucible small without lid | 30µl | Mettler | Mettler |
| AT-MA-002 | Alumina crucible small with lid | 30µl | Shimadzu/Mettler | ME-51140843/ 201-54321, 201-56825-90 |
| AT-MA-002-2 | Alumina crucible with lids | 50µl | Mettler | |
| AT-MA-002-1 | Alumina crucible with lids | 60 µL | Mettler | |
| AT-MA-003 | Alumina crucible medium without lid | 70µl | Mettler | Mettler 30244541 |
| AT-MA-004 | Alumina crucible medium with lid | 70µl | Mettler TGA/sample robot | ME-00024123 |
| AT-MA-005 | Alumina crucible | 85µl | Mettler | Mettler Toledo |
| AT-MA-006 | Alumina crucible large without lid | 150µl | Mettler | Mettler |
| AT-MA-007 | Alumina crucible large with lid | 150µl | Mettler E/sample robot | ME-00024124 |
| AT-MA-008 | Alumina lid | 150µl | Mettler | Mettler |
| AT-MA-008-1 | Alumina crucible large with lid | 600µl | Mettler | ME-30077260 |
| AT-MA-009 | Alumina crucible | 900µl | Mettler E | Mettler |
| AT-MA-010 | Alumina crucible large with lid | 900µl | Mettler | ME-51119960 |
| AT-MA-011 | Alumina lid-12 | 900µl | Mettler | Mettler |
| AT-MA-011-1 | Oval Alumina crucible water test | 900µl | Mettler | Mettler Volume Oval Shape for ME water test |

DSC Alumina Crucible Specifications:

Type 2: Netzsch Alumina Crucible/Lids

| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-----------|---|----------|--|----------------------------------|
| AT-NA-068 | Alumina crucible | 25µl | Netzsch | Netzsch |
| AT-NA-069 | Alumina crucible | 25µl | Netzsch | Netzsch |
| AT-NA-070 | Alumina crucible | 80µl | Netzsch | 20*5SET |
| AT-NA-071 | Alumina crucible | 85µl | Netzsch DSC 204 F1 Phoenix®, DSC 200 F3 Maia®, DSC 3500 Sirius and DSC 214 Polyma, TG 209 F1 Libra® and TG 209 F3 Tarsus® @, STA 449 F1/F3/F5 Jupiter® and DSC 404 F1/F3 Pegasus | Netzsch P/N: 399.972 / GB399972/ |
| AT-NA-072 | zirconia sample pan | 85µl | Netzsch/TG 209 F3, TG 209 F1/STA 449 F3, STA 449 F1 | Netzsch |
| AT-NA-073 | Alumina lid | 85µl | Netzsch DSC 204 F1 Phoenix®, DSC 200 F3 Maia®, DSC 3500 Sirius and DSC 214 Polyma, TG 209 F1 Libra® and TG 209 F3 Tarsus® @, STA 449 F1/F3/F5 Jupiter® and DSC 404 F1/F3 Pegasus | Netzsch P/N: 399.973 / GB399973 |
| AT-NA-074 | Alumina crucible | 85µl | Netzsch DSC 204 F1 Phoenix®, DSC 200 F3 Maia®, DSC 3500 Sirius and DSC 214 Polyma, TG 209 F1 Libra® and TG 209 F3 Tarsus® @, STA 449 F1/F3/F5 Jupiter® and DSC 404 F1/F3 Pegasus | GB399972/GB399973 |
| AT-NA-075 | Alumina crucible | 90µl | Netzsch | Netzsch |
| AT-NA-076 | Alumina crucible | 160µl | Netzsch | Netzsch |
| AT-NA-077 | TG crucible from Al ₂ O ₃ | 300µl | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB803698 |
| AT-NA-078 | Alumina lid | 300µl | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB808209 |



DSC Alumina Crucible Specifications:

| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|--------------|---|----------|--|---------------------|
| AT-NA-079 | TG Alumina crucible with lid | 300µl | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB803698/NGB808209 |
| AT-NA-080 | Alumina crucible | 350µl | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB800453 |
| AT-NA-081 | Alumina lid | 350µl | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB800454 |
| AT-NA-082 | Alumina crucible with lid | 350ul | Netzsch TG 209 F1 Libra® and TG 209 F3 Tarsus® | NGB800453/NGB800454 |
| AT-NA-083 | Alumina crucible | 400µl | Netzsch | Netzsch |
| AT-NA-084 | Alumina crucible | 1mL | Netzsch | Netzsch |
| AT-NA-085 | Alumina circle piece | D8mm | Netzsch | Netzsch |
| AT-NA-085-1 | TGA-DTA crucibles for highest temperatures/crucible from Al ₂ O ₃ , 0.15 ml | 0.15 ml | Netzsch STA 449 F1/F3 Jupiter® and DSC 404 F1/F3 Pegasus | GB399147 |
| AT-NA-087 | Alumina crucible Special shape/TGA-DTA crucibles | 0.2ml | Netzsch DSC 404 F1/F3 Pegasus, STA 449 F1/F3/F5 Jupiter® | GB445172 |
| AT-NA-087-1 | Alumina lid | / | for NGB810411, GB445172; pierced, ø 0.5 mm hole | GB445175 |
| AT-NA-086 | Alumina crucible Special shape | 0.3ml | Netzsch DSC 404 F1/F3 Pegasus, STA 449 F1/F3/F5 Jupiter® | NGB810411 |
| AT-NA-088 | Alumina crucible Special shape/Crucibles for TGA Sample Carrier | 3.4ml | STA 449 F1/F3/F5 Jupiter | GB445213 |
| AT-NA-088-01 | Alumina crucible Special shape/Crucibles for TGA Sample Carrier | 5ml | STA 449 F1/F3/F5 Jupiter | NGB809163 |
| AT-NA-088-02 | Alumina crucible Special shape/Crucibles for TGA Sample Carrier | 4.2ml | STA 449 F1/F3/F5 Jupiter | |
| AT-NA-089-1 | Slip-on plate, flat, made of Al ₂ O ₃ | / | Netzsch DTA Sensor 1 of the DSC 404 F1/F3 Pegasus, TGA2, TGA-DTA3 Sensor of the STA 449 F1/F3/F5 Jupiter | GB343550 |

DSC Alumina Crucible Specifications:

Type 3: Shimadzu Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|-----------------------------|----------|--|--------------------|
| AT-DA-097 | Alumina cell | 25µl | Shimadzu | Shimadzu |
| AT-DA-098 | Alumina cell/pan | 25µl | Shimadzu /DSC-50/50Q/50V, DTA-50, TGA-50/50H, TGA-51/51H, DSC-60 y DTG-60, DSC-60 plus series | Shimadzu 201-54321 |
| AT-DA-099 | Alumina cell with lid | 25µl | Shimadzu /DSC-50/50Q/50V, DTA-50, TGA-50/50H, TGA-51/51H, DSC-60 y DTG-60. | 201-54321 with lid |
| AT-DA-099-1 | ALUMINA PAN | 90µl | DSC-60 series, DSC-60 plus series, TGA-50 series, TGA-51 series, DTG-60 series, and DTA-50 instruments | 201-54321-01 |
| AT-DA-100 | Alumina cell | 150µl | Shimadzu | Shimadzu |
| AT-DA-101 | Alumina marco cell/crucible | 850µl | Shimadzu TGA-51 series instruments | 201-56825-90 |

DSC Alumina Crucible Specifications:

Type 4: Setaram Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|----------------------------------|----------|-----------------|-------------------|
| AT-SA-120 | Alumina crucible | 30µl | Setaram | |
| AT-SA-121 | Alumina crucible | 50µl | Setaram | DSC, TGA |
| AT-SA-122 | Alumina crucible | 95µl | Setaram | |
| AT-SA-123 | Alumina crucible | 100µl | Setaram,DSC | DSC, TGA |
| AT-SA-123-1 | Zirconia crucible | 100µl | Setaram,DSC | |
| AT-SA-124 | Alumina crucible with hole | 160µl | Setaram | |
| AT-SA-125 | Alumina crucible set | 40µl | Setaram | CTC1800 Evolution |
| AT-SA-126 | Alumina crucible set | 110µl | Setaram | CTC1800 Evolution |
| AT-SA-126-1 | Alumina crucible set | 70µl | Setaram | |
| AT-SA-124-1 | special crucible with hole AL2O3 | 100µl | Setaram | |
| AT-SA-127 | Alumina crucible | 400µl | Setaram | SETARAM LABSYS |
| AT-SA-128 | Alumina crucible (Special shape) | 100µl | Setaram (20pcs) | |

DSC Alumina Crucible Specifications:

Type 5: PerkinElmer Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|--|----------|---|----------------------------|
| AT-PA-132 | Alumina crucible with Flat base | 50µl | PerkinElmer, DuPont | TGA |
| AT-PA-133 | Alumina Sample Cups with Round bottom, 60mm ³ | 60µl | PerkinElmer PerkinElmer DTA7 and DTA1700, DuPont | PE-04190387 |
| AT-PM-153-2 | Alumina sample pans | 120µl | PerkinElmer | |
| AT-PA-133-1 | Alumina crucible | 20/40µl | PerkinElmer DSC 6000, DSC 8000, Pyris 1 DSC, Jade DSC, DSC 4000, Diamond DSC, DSC 6, DSC 8500, Pyris 6 DSC, DSC 7 | PE-N5190180 |
| AT-PA-134 | Alumina crucible | 250µl | PerkinElmer TGA6/As6STA 8000, TGA 4000, STA 6000 | PE-N5200045 PE-N5200040 |
| AT-PA-134-1 | STA 6000/TGA 4000 Alumina lids | 250µl | PerkinElmer STA 6000/TGA 4000 | |
| AT-PA-135 | Inner Alumina crucible | 60 µL | PerkinElmer | N5200045 |
| AT-PA-135-1 | Alumina lids | 60 µL | PerkinElmer | N5200045 |
| AT-PA-136-1 | Half handle ceramic sample pan | 100µl | PerkinElmer TG | / |

DSC Alumina Crucible Specifications:

Type 6: Linseis Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|----------------------------------|----------|-----------------|----------|
| AT-LA-154 | Alumina crucible | 95µl | Linseis | Linseis |
| AT-LA-155 | Alumina sample pans | 150µl | Linseis | Linseis |
| AT-LA-156 | Alumina circle piece | 150µl | Linseis | Linseis |
| AT-LA-157 | Alumina crucible Special shape | 300µl | Linseis | Linseis |
| AT-LA-158 | Alumina crucible (Special shape) | 3.0ml | Linseis (20pcs) | Linseis |
| AT-LA-158-1 | Alumium crucible | 70µl | Linseis | Linseis |

🎯 DSC Alumina Crucible Specifications:

Type 7: Hitachi(Seiko) Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-----------|------------------|----------|----------------------------|-----------------------------|
| AT-EA-159 | Alumina crucible | 25µl | Hitachi(Seiko), Bruker AXS | Seiko SII, Bruker AXS |
| AT-EA-160 | Alumina crucible | 65µl | Hitachi(Seiko), Bruker AXS | Seiko SII, Bruker AXS |

DSC Alumina Crucible Specifications:

Type 8: Rigaku Alumina Crucible/Lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|-------------------|----------|-----------------|----------|
| AT-RA-163 | Alumina crucible | 20µl | Rigaku | Rigaku |
| AT-RA-164 | Alumina crucible | 60µl | Rigaku | Rigaku |
| AT-RA-164-1 | Zirconia crucible | 60µl | Rigaku/Linseis | Rigaku |

DSC Alumina Crucible Specifications:

Type 9: TA Instruments
 Alumina crucible/lids



| Item NO. | Prod. Name | Capacity | Compatible with | Part No. |
|-------------|--|------------|--|-----------------------------|
| AT-TA-022 | Premium alumina sample cups/Alumina cup kit /Alumina Sample Cups | 90µl | TA SDT Q600/SDT 2960 | 960070.901/ 961060.901 |
| AT-TA-023 | Premium alumina lids | 90ul 6.5mm | TA SDT Q600/SDT 2960 | 960239.901 |
| AT-TA-024 | Premium alumina pan/lid | 90µl | TA SDT Q600/SDT 2960 | 960070.901/960239.901 |
| AT-TA-025 | Alumina Sample Cups | 40 µl | TA SDT Q600/SDT 2960 | 960072.901 |
| AT-TA-026 | Alumina Sample Cups and lids | 40 µl | TA SDT Q600/SDT 2960 Sample Pans | 960072.901/960239.901 |
| AT-TA-027 | ceramic sample pan | 100µl | DTGA/Q5000 IR/TGA-HP50/VTI-SA | 957329.903 |
| AT-TA-027-1 | ceramic sample pan | 250µl | DTGA/Q5000 IR/TGA-HP50/VTI-SA | |
| AT-TA-028 | ceramic sample pan | 100µl | TA Q500/Q50/TGA2950/2050/TGA-HP50/VTI-SA | 952018.907 |
| AT-TA-029 | ceramic sample pan(OEM handle) | 100µl | TA | / |
| AT-TA-029-1 | ceramic sample pan(OEM handle) | 250µl | TA | / |
| AT-TA-031-2 | Alumina | / | / | equivalent to 820055.001 |
| AT-TA-032 | Crucible | 100 µL | DTGA/Q5000R Sample Pans | 957329.903 |
| AT-TA-033 | Ceramic Sample Pans, 250 µL (pkg of 3) | 250 µL | Q5000 IR Sample Pans | 957329.904 |

DSC Alumina Crucible Specifications:

Type 9: OEM Alumina Crucible/Lids



| Item NO. | Prod. Name | Compatible with |
|-------------|------------------|-----------------|
| AT-OA-165 | Alumina crucible | 15μl |
| AT-OA-166 | Alumina crucible | 25μl |
| AT-OA-167 | Alumina crucible | 25μl |
| AT-OA-168 | Alumina crucible | 30μl |
| AT-OA-169 | Alumina crucible | 30μl |
| AT-OA-170 | Alumina crucible | 60μl |
| AT-OA-170-1 | Alumina crucible | 60μl |
| AT-OA-172 | Alumina crucible | 85μl |
| AT-OA-172-1 | Alumina crucible | 150μl |
| AT-OA-173 | Alumina crucible | 450μl |
| AT-OA-173-1 | Alumina crucible | 500μl |
| AT-OA-173-2 | Alumina crucible | 800μl |
| AT-OA-174 | Alumina crucible | 850μl |
| AT-OA-175 | Alumina crucible | 850μl |
| AT-OA-175-1 | Alumina crucible | 900μl |
| AT-OA-175-2 | Alumina crucible | 1ml |
| AT-OA-175-3 | Alumina crucible | 1.5ml |

DSC Alumina Crucible Specifications:

| Item NO. | Prod. Name | Compatible with |
|-------------|----------------------------|-----------------|
| AT-OA-176 | Alumina crucible | 1.5ml |
| AT-OA-176-1 | Alumina crucible | 3.0ml |
| AT-OA-176-4 | Alumina crucible | 3.0ml |
| AT-OA-176-2 | Alumina crucible | 3ml |
| AT-OA-176-5 | Alumina crucible | 5ml |
| AT-OA-176-3 | Alumina crucible | 20ml |
| AT-OA-177 | Alumina crucible | 100µl |
| AT-OA-178 | Alumina crucible | 200µl |
| AT-OA-179 | Alumina crucible | 110µl |
| AT-OA-179-1 | Alumina crucible | 40µl |
| AT-OA-180 | Alumina crucible | 170µl |
| AT-OA-181 | Alumina crucible | 900µl |
| AT-OA-182 | Alumina crucible | 6.0ml |
| AT-OA-183 | Alumina crucible with hole | 30µl |
| AT-OA-183-1 | Alumina crucible with hole | 1.0ml |

| Item NO. | Prod. Name | Compatible with |
|-------------|----------------------------|-----------------|
| AT-OA-183-2 | Alumina crucible with hole | 1.5ml |
| AT-OA-183-3 | Alumina crucible with hole | 3.0ml |
| AT-OA-183-4 | Alumina crucible with hole | 9.0ml |
| AT-OA-184 | Tapered Alumina crucible | 40µl |



DSC Alumina Crucible Applications

Polymer & plastics

Buyer pain point

Baseline drift during repeated Tg/Tm studies and higher-temperature ramps.

Why alumina works

Flat-bottom alumina bodies support stable heat transfer and reduce interaction with additives or fillers.

Typical result

Typical example on the product page reports repeat runs dropping by about 60% after switching to 150 uL alumina crucibles.

Battery materials

Buyer pain point

Residue, contamination, or poor stability during oxide and salt screening.

Why alumina works

High-purity alumina offers stronger chemical inertness and better thermal robustness for oxidative holds.

Typical result

ADCERAX describes a 40-sample screening sequence completed without unscheduled cleaning after moving to vented 70 uL alumina crucibles.

Certification labs

Buyer pain point

Too many pan SKUs, inconsistent substitutions, and requalification time.

Why alumina works

One crucible family can cover polymers, composites, and inorganic samples with predictable geometry.

Typical result

A typical lab example on the product page cites around 12% monthly turnaround improvement after standardizing on 150 uL alumina crucibles.

Customize DSC 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

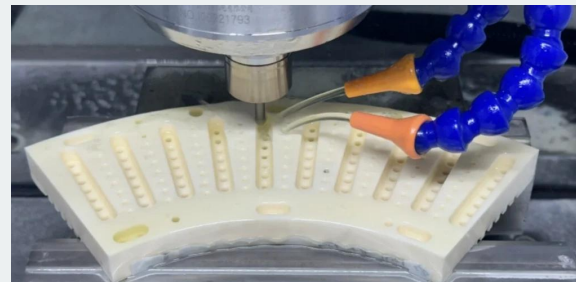
Drilling, grooving, grinding, polishing

Material selection

Adjust purity level for process demand

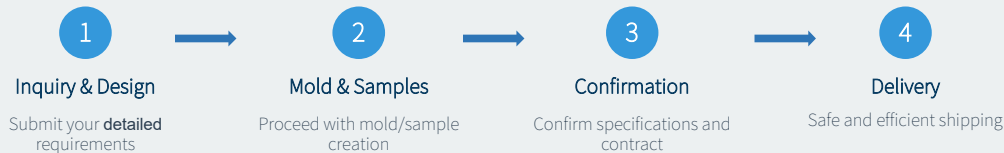
Packaging

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

DSC Alumina Crucible Usage Guide

Before use

Check the crucible and lid for chips, cracks, or contamination. Keep all contact surfaces clean and dry.

Sample loading

Use a suitable sample mass and avoid overfilling. Spread the sample evenly for stable heat transfer.

Lid fitting

Match the lid correctly and seat it firmly. Poor fitting can affect heat flow and repeatability.

Heating

Follow the DSC temperature program and test atmosphere. Avoid sudden temperature changes.

Handling

Use clean tweezers or holders. Handle carefully to avoid chipping and incorrect placement.

Cleaning

Cool naturally before cleaning. Remove residue gently and replace heavily contaminated crucibles.

Common risks & fixes

- Baseline drift → check cleanliness, contact, and sample position.
- Poor repeatability → keep mass, crucible type, and method consistent.
- Cross contamination → clean well after each test.
- Thermal shock cracking → avoid abrupt heating or cooling.
- Abnormal signals → check crucible seating and lid fit.

Technical Support

✉ Technical Inquiry: info@adcerax.com

📞 Service Hotline: +86-0731-84428843

💬 Whatsapp: +86-19311583352

DSC Alumina Crucible FAQ

- ✓ **Q: Can these alumina crucibles be used directly with NETZSCH DSC models?**
A: Yes, our crucibles are geometrically compatible with most NETZSCH thermal analysers. Please confirm cavity size for a precise fit.

- ✓ **Q: What's the maximum working temperature these crucibles can withstand?**
A: They are thermally stable up to 1750° C under an inert atmosphere or ambient air.

- Q: Do you supply lids (pin or pin-less)?**
- ✓ A: 1700–1750 °C typical, subject to furnace type, atmosphere, and hold time.

- ✓ **Q: Is 99.9% pure alumina available?**
A: Pre-fire, use vented lids for splashy chemistries, and dedicate crucibles per material family.

- ✓ **Q: Will the crucible affect the baseline of my thermogravimetric analysis?**
A: No. High-purity alumina is chemically inert and exhibits minimal absorbance or mass variance.

- ✓ **Q: Do you offer bulk pricing or wholesale supply?**
A: Yes—volume pricing is available. Inquiries for DSC alumina crucibles wholesale can be quoted with lead-time and lot tracking.



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

- +86-0731-84428843
- 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 in touch with us

We promise to respond to your inquiry within 24 hours.

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

[Get A Quote](#)