

# Ceramic Crucible, Sagger, Boat



## chemical composition and physical properties

	95series	99series	995series
Al <sub>2</sub> O <sub>3</sub> (%)	≥95	≥99	≥99.5
SiO <sub>2</sub> (%)	<0.3	<0.2	<0.04
Fe <sub>2</sub> O <sub>3</sub> (%)	<0.1	<0.1	<0.05
Alkaline substances (%)	<0.1	<0.1	<0.08
Density (g/cm <sup>3</sup> )	3.7	3.88	3.9
Expansion coefficient (10 <sup>-6</sup> K <sup>-1</sup> )	8.5	8.1	7.6
Operating temperature (°C)	1650	1800	1850
Color	pink ,white	white,ivory	ivory

## standard dimension (mm)

High-purity alumina & zirconia crucible, specifications: 5ml, 10ml, 15ml, 20ml, 25ml, 30ml, 50ml, 100ml, 150ml, 200ml-5000ml.

The dimensions can be customized.

Alumina Crucibles Engineered for Broad Applications, Repeatable Performance and a Service Limit of 1800° C in Vacuum or Oxidizing Atmospheres . With configurations to suit your particular needs. Ideal for induction melting of superalloy metals, in vacuum or oxidizing atmospheres. Markets served include: Aerospace, Crystal Growing, Dental, Mining, Pharmaceutical, Power Generation, Medical, Precious Metals and the processing of Zircon.

## Zirconia Crucible

Zirconium Oxide Crucibles deliver cleaner melts at temperatures up to 1900°C and beyond. They are engineered for the melting of superalloys and precious metals and deliver heat-up and cool-down schedules that keep your foundry productive. we inventory the most common crucible sizes, with configurations to suit your particular needs. Markets served include: Aerospace, Power Generation, Medical, Precious Metals and Dental.

# 氧化铝陶瓷坩埚、匣钵



## 产品技术指标

	95series	99series	995series
Al <sub>2</sub> O <sub>3</sub> (%)	≥95	≥99	≥99.5
SiO <sub>2</sub> (%)	<0.3	<0.2	<0.04
Fe <sub>2</sub> O <sub>3</sub> (%)	<0.1	<0.1	<0.05
碱性物质 (%)	<0.1	<0.1	<0.08
密度 (g/cm <sup>3</sup> )	3.7	3.88	3.9
膨胀系数 (10 <sup>-6</sup> K <sup>-1</sup> )	8.5	8.1	7.6
使用温度 (°C)	1650	1800	1850
颜色	粉红、白色	白色、象牙黄	象牙黄

## 产品尺寸(mm)

根据外形从5毫升至5000毫升不等，也可定做更大容量，目前可做最大直径尺寸600毫米产品。一般情况下大多数都是将被分析和烧制的物质先放入坩埚或匣钵内，然后放入分析或烧制设备中进行加温。加温和降温速度根据设备和产品特性有快有慢。刚玉坩埚在氧化和还原气氛中，具有良好的高温绝缘性和机械强度。导热率大，热膨胀率小。在1500℃以上与空气，水蒸气，氢气，一氧化碳等不发生反应。995氧化铝含量坩埚短期最高使用温度可高达1800℃。

## 注意事项

- 1.由于制作坩埚和匣钵的原料有热膨胀，升温或降温过快容易导致坩埚和匣钵开裂，请尽量控制好升降温速率。
- 2.一般不能用于以NaOH、Na<sub>2</sub>O、Na<sub>2</sub>CO<sub>3</sub>等碱性物质作熔剂熔融，以免腐蚀瓷坩埚。瓷坩埚不能和氢氟酸接触。
- 3.陶瓷坩埚一般可用稀HCl煮沸洗涤。