



Alumina Crucibles

- **Many Sizes to Choose From**
- **Numerous Bottom Configurations**
- **Responsive Order Processing**
- **Short Lead Times**
- **Repeatable Performance**
- **Extended Life**



Alumina Crucibles - Composition 6105



Zircoa's performance engineered Composition 6105 delivers alumina crucibles with a uniform surface as well as precise, consistent, dimensional control from one order to the next. As a leader in the design, engineering and manufacturing of crucibles, you can depend upon Zircoa for expertise in the forming method appropriate to your application.

Ready to Assist You

Need more help, or have a specialized need? We are ready to put our 50+ years of experience to work for you. Please contact our application engineers to discuss your requirements.

Typical Properties

Description Alumina coarse grain pressed body.

Application Containment vessels for induction melting of superalloy metals, in vacuum or oxidizing atmospheres.

Bulk Density

g/cm³ 2.8
lbs/ft³ 174.8

Apparent Porosity (%) 18

Modulus of Rupture @ 70° (21°C)

psi 2800
Mpa 19.3

Chemistry (wt %)

Al₂O₃ 94.3
SiO₂ 3.5
TiO₂ <0.1
ZrO₂ 1.8
Fe₂O₃ 0.2
CaO <0.1
MgO <0.1
Na₂O + K₂O <0.2

Thermal Expansion

CTE R.T. to 600°C 7.0 x 10⁻⁶ in/in/°C
CTE R.T. to 1000°C 8.2 x 10⁻⁶ in/in/°C
CTE R.T. to 1300°C 8.8 x 10⁻⁶ in/in/°C



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