

Phone: 440-248-0500 Fax.: 440-248-8864 E-Mail: Zircoa@Zircoa.com

## **COMPOSITION 6105**

## **DESCRIPTION AND 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/cm <sup>3</sup>	2.8 or (174.8 Lbs./Ft <sup>3</sup> )
Apparent Porosity	%	18
Modulus of Rupture @ 70°F / 21°C	psi (MPa)	2800 (19.3)
Chemistry (wt %)	$\begin{array}{c} Al_2O_3\\ SiO_2\\ TiO_2\\ ZrO_2\\ Fe_2O_3\\ CaO\\ MgO\\ Na_2O+K_2O\\ \end{array}$	94.3 3.5 <0.1 1.8 0.2 <0.1 <0.1 <0.2
Thermal Expansion	CTE R.T. to 600°C CTE R.T. to 1000°C CTE R.T. to 1300°C	7.0 x 10 <sup>-6</sup> in/in/°C 8.2 x 10 <sup>-6</sup> in/in/°C 8.8 x 10 <sup>-6</sup> in/in/°C

NOTICE: Recommendations, property values, and application information we publish are based on various sources including measurements by us and others, and estimates of experience. We intend this to be a reliable guide, but we do not guarantee the applicability, completeness, or accuracy of the information. Users should make their own test to determine the suitability of any product for their applications