

COMPOSITION 2004

DESCRIPTION AND TYPICAL PROPERTIES

Description	Coarse grain pressed body 72% zirconia, 27% silica	
Application	Containment vessels for induction melting of precious metals and some superalloys.	
Chemistry	<u>Oxide</u>	<u>Percent</u>
	SiO ₂	27.0
	CaO	0.3
	MgO	0.2
	Fe ₂ O ₃	0.2
	Al ₂ O ₃	0.5
	TiO ₂	0.2
	ZrO ₂	Balance
Density	3.6 g/cc (224.8 Lbs./Ft ³)	
Porosity	16%	
Monoclinic	Not Applicable	
MOR at R.T.	4300 psi	
Thermal Expansion		
CTE R.T. to 600°C	5 x 10 ⁻⁶ in/in/°C	
CTE R.T. to 1000°C	5 x 10 ⁻⁶ in/in/°C	
CTE R.T. to 1300°C	3 x 10 ⁻⁶ in/in/°C	
Thermal Conductivity at 800°C-Calc.	2.0 W/m-°K	

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
