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COMPOSITION 1651

DESCRIPTION AND TYPICAL PROPERTIES

Stabilizer CaO 3.1 wt%
Description Coarse grain pressed body with a large percentage of calcia partially stabilized, fused zirconia.
Application Refractory brick and tube shapes for high temperature furnace insulation and heat shields.

Chemistry	<u>Oxide</u>	<u>Percent</u>
	SiO ₂	0.4
	CaO	3.1
	MgO	0.4
	Fe ₂ O ₃	0.1
	Al ₂ O ₃	0.4
	TiO ₂	0.1
	ZrO ₂	Balance

Density	4.2 g/cm ³ (262 lbs./ft ³)
Porosity	25%
Monoclinic	27%
MOR at R.T. (3pt)	2400 psi
Thermal Expansion	
CTE R.T. to 600°C	8.4 x 10 ⁻⁶ in/in/°C
CTE R.T. to 1000°C	8.0 x 10 ⁻⁶ in/in/°C
CTE R.T. to 1300°C	7.3 x 10 ⁻⁶ in/in/°C
Thermal Conductivity	
at 800°C-Calc.	1.2 W/m-°K
at 1,400°C-laser flash	1.5 W/m-°K
Creep (20-50hr, 28 psi @ 1,500°C)	0.4 Deformation %

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