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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	Oxide	Percent
	SiO_2	0.4
	CaO	3.1
	MgO	0.4
	Fe_2O_3	0.1
	Al_2O_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^{o}C	8.4 x 10^{-6} in/in/^{o}C
CTE R.T. to 1000^{o}C	8.0 x 10^{-6} in/in/^{o}C
CTE R.T. to 1300^{o}C	7.3 x 10^{-6} in/in/^{o}C
Thermal Conductivity	
at 800^{o}C-Calc.	1.2 W/m–^{o}K
at 1,400^{o}C-laser flash	1.5 W/m–^{o}K
Creep (20-50hr, 28 psi @ 1,500°C)	0.4 Deformation %

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