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COMPOSITION 2290

DESCRIPTION AND TYPICAL PROPERTIES

Stabilizer	Yttrium Oxide
Description	Coarse grain pressed bricks, shapes, and tubes, partially stabilized with yttria.
Application	Refractory brick, tube, and pressed shapes for ultra-high temperature furnace insulation.

Chemistry	<u>Oxide</u>	<u>Percent</u>
	SiO ₂	0.3
	CaO	0.3
	MgO	0.1
	Fe ₂ O ₃	0.1
	Al ₂ O ₃	0.3
	TiO ₂	0.1
	Y ₂ O ₃	5.2
	ZrO ₂	Balance
Density	4.5 g/cm ³ (281.0 lbs./ft ³)	
Porosity	23%	
Monoclinic	54%	
MOR at R.T. (3pt)	2400 psi	
Thermal Expansion - x 10 ⁻⁶ in/in/°C		
	CTE R.T. to 600°C	7.5
	CTE R.T. to 1000°C	4.6
	CTE R.T. to 1300°C	5.9

Thermal Conductivity at 800°C	1.2 W/m-°K
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