



**DESCRIPTION:** Z-2300<sup>™</sup> is a low density, 2300 °F insulating firebrick exhibiting excellent thermal properties and high strength. Z-2300<sup>™</sup> can be used as a general purpose insulation layer. It is available in all standard brick sizes.

<b><u>CHEMICAL COMPOSITION:</u></b>	<b><u>Typical</u></b> (Ignited Basis)
SiO <sub>2</sub>	69.4%
Al <sub>2</sub> O <sub>3</sub>	27.5
TiO <sub>2</sub>	1.3
Fe <sub>2</sub> O <sub>3</sub>	0.8
K <sub>2</sub> O	0.6
CaO	0.2
Na <sub>2</sub> O	0.2

**PHYSICAL PROPERTIES:** Typical, as determined on test specimens, ASTM methods where applicable.

	<b>Bulk Density (lbs/ft<sup>3</sup>)</b>	<b>Modulus of Rupture (psi)</b>	<b>Cold Crushing Strength (psi)</b>	<b>Apparent Porosity (%)</b>
As Supplied	40	140	170	72

<b><u>Thermal Expansion (%):</u></b>	
Refired @ 2000 °F	0.7
<b><u>Linear Change (%):</u></b>	
Refired @ 2250 °F	-0.1
<b><u>Thermal Conductivity:</u></b>	
Mean Temperature, °F	<u>Typical</u> "K" *
500°	1.3
1000°	1.5
1500°	1.9
2000°	2.1
* BTU·in/hr·ft <sup>2</sup> ·°F	
<b><u>Melting Temperature (°F):</u></b>	3018