



**Typical Data**

*Properties are after shock drying at 250F – Typical of installation*

Properties		I-Fix.Hot 2300 Insulating Grout	I-Fix.Hot 2800 Insulating Grout
Temperature Use Limit	°F	2300	2750
	°C	1260	1510
Density (avg)	Lb/ft <sup>3</sup>	41	61
	Kg/m <sup>3</sup>	674	977
Cold Crush Strength	Lb/in <sup>2</sup>	90	95
	Kg/cm <sup>2</sup>	0.62	0.66
Thermal Conductivity	Btu-in/ft <sup>2</sup> /hr/1000F	1.7	3
	W/mk	0.21	0.37
<b>Chemical Analysis %</b>			
	Alumina – Al <sub>2</sub> O <sub>3</sub>	35.5	61
	Silica – SiO <sub>2</sub>	58	35.38
	Ferric Oxide – Fe <sub>2</sub> O <sub>3</sub>	<1.6	<1
	Titanium Oxide – TiO <sub>2</sub>	1.2	<1
	Calcium Oxide – CaO	2.5	.44
	Alkalies as Na <sub>2</sub> O & K <sub>2</sub> O	<1	1.28

**Warranty**

BNZ Materials warrants that its products are manufactured in accordance with its applicable material specifications are free from defects in workmanship and materials using BNZ's specifications as a standard. Every claim under this warranty shall be deemed waived unless in writing and received by BNZ within thirty (30) days of the date the defect was discovered and within one (1) year if the date of the shipment of the product.

BNZ MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, INCLUDING WITHOUT LIMITATION, THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THE LIMITED WARRANTY SET FORTH ABOVE.

**Limitations of Liability**

It is expressly understood and agreed that the limit of BNZ's liability shall be the resupply of a like quantity of non-defective product and that BNZ shall have no such liability except where the damage or claim results solely from the breach of BNZ's warranty.

IT IS ALSO AGREED THAT BNZ SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES FOR ANY ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY, OR ANY OTHER THEORY, OTHER THAN THE LIMITED LIABILITY SET FORTH ABOVE.

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**Insulating Firebrick, Castables Plant Location**  
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**BNZ Materials, Inc.**

**I-Fix.Hot**

**Insulating Grog**

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