



## Insulating Firebricks

### Typical Data

Properties		BNZ 23-C	BNZ 26-60	BNZ 28	BNZ 30	BNZ 32
<b>Classification</b>	ISO 2245 ASTM C 155	125-0.5-L 23	140-0.8-L 26	150-0.9-L 28	160-1.0-L 30	170-1.2-L 32
<b>Classification Temperature (°C)</b>		1260	1430	1540	1650	1760
<b>Density (kg/m<sup>3</sup>)</b>	ASTM C 134	480	780	880	1020	1250
<b>Cold Crushing Strength (MPa)</b>	ASTM C 133	1.2	1.6	2.1	2.2	3.5
<b>Cold Modules of Rupture (MPa)</b>	ASTM C 133	1.0	1.5	1.8	2.1	2.1
<b>Permanent Linear Change (%)</b> 24h soak at Temperature, °C	ASTM C 210	-0.2 1230	-0.1 1400	-0.4 1510	-0.8 1620	-0.6 1730
<b>Linear Thermal Expansion (%)</b> Reversible, Max.		0.5	0.7	0.8	0.9	1.1
<b>Deformation under Hot Load</b> 34 kPa load, 1_h at Temperature, °C 69 kPa load, 1_h at Temperature, °C	ASTM C 16	-0.1 1100	-0.2 1260	-0.2 1320	-0.5 1370	-0.2 1370
<b>Thermal Conductivity (W/mk)</b> Mean Temperature, °C	ASTM C 182					
400		0.12	0.25	0.30	0.38	0.49
600		0.14	0.27	0.32	0.39	0.50
800		0.17	0.30	0.34	0.40	0.51
1000		0.19	0.33	0.36	0.41	0.53
1200		-	0.35	0.38	0.42	0.56
<b>Chemical Analysis (%)</b>						
Al <sub>2</sub> O <sub>3</sub>		37.0	58.0	67.1	73.4	77.0
SiO <sub>2</sub>		44.4	39.1	31.0	25.1	21.5
Fe <sub>2</sub> O <sub>3</sub>		0.7	0.7	0.6	0.5	0.3
TiO <sub>2</sub>		1.2	0.1	0.1	0.1	-
CaO + MgO		15.5	0.3	0.2	-	0.1
Na <sub>2</sub> O + K <sub>2</sub> O		1.1	1.7	0.9	0.9	0.9
<b>Dimensional Tolerances (mm)</b>		± 0.8	± 0.8	± 0.8	± 0.8	± 0.8

The above physical and chemical properties of Insulating Firebricks represent values obtained on standard squares in accordance with accepted test methods and are subject to normal manufacturing variations. This information is supplied as a technical service and may change without notice. Results should not be used for specific purposes.

For further information about one of the above mentioned Insulating Firebricks please do not hesitate to contact one of our specialists at:

Form BNZ 1  
Effective:12/02



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