



Insulating Fire Brick

BNZ Materials, Inc

Effective: Mar-16		BNZ 32
Classification Group	ISO 2245 ASTM C 155	170-1.2-L 32
Classification Temperature	°C	1760
Density	ASTM C 134 g/cm ³	1.20
Cold Crushing Strength	Flat ASTM C 133 MPa Edge	3.1
Cold Modulus of Rupture	ASTM C 133 MPa	2.1
Permanent Linear Change	ASTM C 210 % 24h soak at Temperature, °C	-0.4 1732
Linear Thermal Expansion	% Reversible, Max.	0.65
Deformation under Hot Load	ASTM C 16 % 69 kPa load, 1½h at Temperature, °C	-0.2 1316
Thermal Conductivity	ASTM C 182 W/(mK) Mean Temperature, °C	
	200	0.56
	400	0.57
	600	0.59
	800	0.60
	1000	0.62
	1200	0.63
Chemical Analysis	%	
	Al ₂ O ₃	78.3
	SiO ₂	20.7
	Fe ₂ O ₃	0.2
	TiO ₂	0.5
	CaO + MgO	0.2
	Na ₂ O + K ₂ O	0.1
Dimensional Tolerances	Standard Square	
	Dimensions mm	± 0.8
	Out of Squareness %	≤ 0.5

The above physical and chemical properties of Insulating Fire Brick 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 specification purposes, unless agreed with seller.

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