



Insulating Fire Brick

SPECIAL GRADES

BNZ Materials, Inc

Effective: Mar-16

C	BNZ	BNZ	BNZ
22 Z	24	25	26HS

Classification Group	ISO 2245 ASTM C 155	125-0.75-L	130-0.55-L	135-0.8-L	140-0.9
Classification Temperature	°C	1260	1320	1370	1430
Density	ASTM C 134 g/cm ³	0.74	0.59	0.72	0.91
Cold Crushing Strength	Flat Edge ASTM C 133 MPa	2.2	0.9	1.8	4.0
Cold Modulus of Rupture	ASTM C 133 MPa	1.4	0.8	1.0	2.5
Permanent Linear Change	ASTM C 210 %	0.0	-0.4	-0.4	-0.7
24h soak at Temperature, °C		1232	1290	1343	1399
Linear Thermal Expansion	%	0.50	0.60	0.60	0.60
Reversible, Max.					
Deformation under Hot Load	ASTM C 16 %	-0.1	0.0	-0.3	-0.1
69 kPa load, 1½h at Temperature, °C		1093	1093	1204	1204
Thermal Conductivity	ASTM C 182 W/(mK)				
Mean Temperature, °C					
200		0.21	0.13	0.25	0.27
400		0.24	0.15	0.28	0.29
600		0.27	0.17	0.31	0.32
800		0.31	0.19	0.35	0.35
1000		0.35	0.22	0.39	0.39
1200					0.43
Chemical Analysis	%				
Al ₂ O ₃		40.0	40.0	34.0	44.7
SiO ₂		48.8	47.2	63.0	49.9
Fe ₂ O ₃		0.7	0.5	0.7	0.6
TiO ₂		1.5	1.5	1.4	1.6
CaO + MgO		8.3	10.5	0.4	0.7
Na ₂ O + K ₂ O		0.7	0.3	0.5	2.5
Dimensional Tolerances					
Dimensions	mm	± 0.8	± 0.8	± 0.8	± 0.8
Out of Squareness	%	≤ 0.5	≤ 0.5	≤ 0.5	≤ 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.

Form: BNZ (Special)
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