BNZ s.a.

BNZ s.a. Grades

RI 23 High melting point; used for glass furnace insulation as well as general furnace usage.

RI 23 B is a higher cold crush strength version of RI 23. Used for anode baking furnaces worldwide.

Calor A is the traditional Grade 25 IFB for furnace and kiln applications.

Calor B is a stronger, denser version of the Calor A.

Calor CA is a high strength version of Calor A, used extensively for aluminum reduction cells worldwide with proven resistance to aluminum, metal and associated process fluorides. Also used for general insulation as a high cold crush strength 25 grade insulation.

Calor 26 and 26 B are general purpose 26 grade insulations, suitable for anode baking furnaces and glass melting tank insulation.

Mattone refrattario isolante

Valori tipici		RI 23	RI 23 B	Calor A	Calor B	Calor CA	Calor 26	Calor 26 B
Classificazione								
ISO 2245		130-0.65-L	130-0.7-L	135-0.8-L	135-0.9-L	135-1.1-L	140-.08-L	140-0.9-L
ASTM C 155		23	23				26	
Temperatura di classificazione	°C	1300	1300	1350	1350	1350	1430	1430
Densità								
ASTM C 134	kg/m³	650	700	820	900	1100	820	900
Resistenza alla compressione a freddo								
ASTM C 133	MPa – flat	1.3	2.0	2.5	4.0	5.4	2.2	4.0
	– edge					8.2		
Variazione lineare permanente	%							
ASTM C 210								
24 ore allaTemperatura, °C								
1300		-0.5	-0.5	—	—	—	—	—
1350		—	—	-0.5	-0.5	-0.5	—	—
1400		—	—	—	—	—	-0.5	-0.5
Dilatazione termica lineare	%							
Reversibile 20–1000°C		0.5	0.5	0.5	0.5	0.5	0.6	0.6
Conducibilità termica								
ASTM C 182	W/mk							
Temperatura media, °C								
200		0.17	0.17	0.21	0.23	0.29	0.24	0.26
400		0.19	0.19	0.24	0.27	0.32	0.26	0.29
600		0.22	0.23	0.28	0.30	0.36	0.29	0.32
800		0.26	0.27	0.32	0.35	0.40	0.32	0.35
1000		0.30	0.31	0.37	0.40	0.45	0.36	0.39
1200							0.40	0.43
Analisi chimica	%							
Alumina – Al_2O_3		34.0	34.0	34.0	34.0	34.0	43.0	43.0
Silica – SiO_2		57.0	57.0	57.0	57.0	57.0	50.0	50.0
Ferric Oxide – Fe_2O_3		1.2	1.2	1.2	1.2	1.2	1.0	1.0
Tolleranze dimensionali	mm	± 1	± 1	± 1	± 1	± 1	± 1	± 1

Le proprietà chimico-fisiche dei mattoni refrattari isolanti sopra riportate rappresentano valori ottenuti su formati standard secondo metodi di prova normalmente accettati e sono soggette alle normali variazioni di produzione. Queste informazioni sono fornite a titolo di servizio tecnico e possono essere cambiate senza preavviso. I valori riportati non devono essere quindi adoperati a scopo di specifica.

BNZ Materials manufactures, and is a worldwide supplier of a range of specialty industrial insulations. BNZ Insulating Fire Brick has been manufactured continuously at Zelienople, Pennsylvania for more than 60 years.

In addition to the Insulating Fire Brick product line, BNZ also manufactures many grades of Structural Insulations under the tradenames Marinite, Transite and CS85. These products are designed for use from ambient temperatures to 1800°F, in densities from 46 to 100 pcf, and will meet the demanding requirements of a variety of industries and their specific needs.

Contact BNZ for more information on these products and their applications.

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BNZ s.a.

BNZ s.a.
Plémet, France
Les Landelles
22210 Plémet
France
Phone: +33-2-96 25 61 01
Fax: +33-2-96 25 64 18
bnz.plemet@wanadoo.fr

Insulating Fire Brick Plant Location
Zelienople
191 Front Street
Zelienople, PA 16063 USA
Phone: 001/ 724-452-8650
001/ 800-955-8650
Fax: 001/ 724-452-1346
brick@bnzmaterials.com

CS85,™ Marinite® & Transite® Plant Location
Billerica
400 Iron Horse Park
North Billerica, MA 01862 USA
Phone: 001/ 978-663-3401
001/ 800-888-0061
Fax: 001/ 978-663-2735
board@bnzmaterials.com

Corporate Headquarters
Denver
6901 South Pierce Street
Suite 260
Littleton, CO 80128 USA
Phone: 001/ 303-978-1199
001/ 800-999-0890
Fax: 001/ 303-978-0308

info@bnzmaterials.com
www.bnzmaterials.com

Warranty

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