INFORMATION BULLETIN

IFB

DESCRIPTION: Insulating Fire Brick

USES INCLUDE: Insulation, reheat furnace linings

Use Limit °F(°C)	2000(1093)	2300(1260)	2600(1425)	2800(1540)	3000(1649)

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al_2O_3	38	38	42	55	74
SiO_2	48	49	45	32	32
Fe_2O_3	1.8	1.5	1.2	1.0	0.65
Alkalies	1.6	1.3	0.6	0.2	trace

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density, g/cm^3 (pcf)	0.80 (50)	0.80 (50)	0.90 (56)	1.0 (62)	1.0 (62)
Cold Crush Strength Mpa (psi)	1.5 (218)	2 (290)	2.5 (435)	3 (580)	2.5 (435)
Linear change, %:	-2	-2	-2	-2	-0.8
8 hrs at temp, °F (°C)	2192(1200)	2372(1300)	2552(1400)	2732(1500)	2912(1600)
Thermal conductivity, BTU/SF/HR2 (W/MK)					
752F(400C)	1.59 (0.23)	1.59 (0.23)	1.87 (0.27)	2.50 (0.36)	2.63 (0.38)
1472(800C)	N/A	2.15 (0.31)	2.22 (0.32)	2.63 (0.38)	N/A
1832(1000C)	N/A	2.29 (0.33)	2.50 (0.36)	2.84 (0.41)	N/A

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.

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