



## INFORMATION BULLETIN

### IFB

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**DESCRIPTION:** Insulating Fire Brick.

**USES INCLUDE:** Insulation.  
Reheat furnace linings.

**USE LIMIT °C (°F):** 2093 (2000)  
1260 (2300)  
1540 (2800)  
1649 (3000)

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

Al <sub>2</sub> O <sub>3</sub>	38.0	38.0	42.0	55.0	74.0
SiO <sub>2</sub>	48.0	49.0	45.0	32.0	32.0
Fe <sub>2</sub> O <sub>3</sub>	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 pcf (g/cm <sup>3</sup> )	50 (0.8)	50 (0.8)	56 (0.9)	62 (1.0)	62 (1.0)
Cold Crush Strength psi (MPa)	218 (1.5)	290 (2.0)	435 (2.5)	580 (3.0)	435 (2.5)
Linear Change %	- 2.0	- 2.0	- 2.0	- 2.0	- 0.8
8 hr at temp °C (°F)	1200 (2192)	1300 (2372)	1400 (2552)	1500 (3732)	1600 (2912)
Thermal Conductivity BTU/SF/HR2 (W/mk)					
400°C (752°F)	1.59 (0.23)	1.59 (0.23)	1.87 (0.27)	2.50 (0.36)	2.63 (0.38)
800°C (1472°F)	NA	2.15 (0.31)	2.22 (0.32)	2.63 (0.38)	NA
1000°C (1832°F)	NA	2.29 (0.33)	2.50 (0.36)	2.84 (0.41)	NA

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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