

## IFB

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**DESCRIPTION:** Insulating Fire Brick

**USES INCLUDE:** Insulation, reheat furnace linings

**Use Limit °F (°C)** 2300 (1260) 2600 (1425) 2800 (1540)

### CHEMICAL ANALYSIS:

|                                  |     |     |     |
|----------------------------------|-----|-----|-----|
| Al <sub>2</sub> O <sub>3</sub> % | 38  | 42  | 55  |
| SiO <sub>2</sub> %               | 49  | 45  | 32  |
| Fe <sub>2</sub> O <sub>3</sub> % | 1.5 | 1.2 | 1.0 |
| Alkalies %                       | 1.3 | 0.6 | 0.2 |

### TYPICAL AS RECEIVED PROPERTIES:

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

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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