

## FEDSIL 72-24

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**DESCRIPTION:** Nitride-bonded silicon carbide brick

**USES INCLUDE:** Aluminum pots and furnaces, blast furnace, kiln furniture

### **CHEMICAL ANALYSIS: (Weight %)**

SiC	72.0
Si <sub>3</sub> N <sub>4</sub>	23.5
SiO <sub>2</sub>	2.1
Fe <sub>2</sub> O <sub>3</sub>	1.5
Al <sub>2</sub> O <sub>3</sub>	0.9

### **TYPICAL AS RECEIVED PROPERTIES:**

Apparent Porosity, %	17
Bulk Density, pcf (g/cm <sup>3</sup> )	164 (2.63)
Cold Crushing Strength, psi (MPa)	22,000 (152)
Modulus of Rupture, psi (MPa)	
at room temperature	5800 (40)
at 2500 °F	6500 (45)
Thermal Expansion, ( x10 <sup>6</sup> /C°)	4.7
Thermal conductivity,(w/m.K)	
at 2370 °F	15.6

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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