



## 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: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % by 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 (%):	17.0
Bulk Density pcf (g/cm <sup>3</sup> ):	164 (2.63)
Cold Crushing Strength psi (MPa):	22,000 (152)
MOR psi (MPa):	
@ Room Temperature	5800 (40)
@ 2500°F	6500 (45)
Thermal Conductivity (W/mk):	
@ 2370°F	15.6
Thermal Expansion (x10 <sup>6</sup> /°C)	4.7

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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