



Fedsil 72 - 24

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 ₃ N ₄	23.5%
SiO ₂	2.1%
Fe ₂ O ₃	1.5%
Al ₂ O ₃	0.9%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	17.0
Bulk Density pcf (g/cm ³):	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 (x106/°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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