



Fedmag 80 - 85 - 92

MAGNESIA-SPINEL BRICK

DESCRIPTION: Produced from high purity, chrome-free magnesia, high fired to offer excellent resistance to excessive thermal load and alkali attack. The product is extremely flexible and insulating while providing the ability to withstand thermal shock stresses experienced in rotary cement kilns. Generates and holds coating stable coating through normal operation cycles.

USES INCLUDE: All transition zones and burning zones of hard-working cement kilns.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

	80	85	92
Al ₂ O ₃	10.0%	10.0%	7.0%
MgO	80.0%	85.0%	92.0%
SiO ₂	3.0%	1.0%	0.3%
CaO	1.0%	1.2%	1.0%
Fe ₂ O ₃	1.0%	0.5%	0.5%
TiO ₂	0.3%	0.4%	0.4%

TYPICAL AS RECEIVED PROPERTIES:

	80	85	92
Apparent Porosity (%)	17.5	18.0	18.0
Bulk Density pcf (g/cc)	181 (2.90)	181 (2.90)	181 (2.90)
Cold Crushing Strength psi (MPa)	4350 (30)	5800 (40)	5800 (40)

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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