



Atlas 92: Burned Magnesite Brick

DESCRIPTION: Burned and chemically-bonded magnesite brick. Available with or without tar impregnation. Burned brick have higher porosity than chemically-bonded brick, so in certain applications, tar could be helpful to reduce slag penetration.

USES INCLUDE: EAF sub-hearth. BOF and ladle safety lining.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

MgO	92.4 %
CaO	1.4 %
Silica	3.7 %
Fe ₂ O ₃	1.0 %
Al ₂ O ₃	1.0 %

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density g/cm ³ (pcf)	2.90 (181)
Cold Crushing Strength Mpa (psi)	70 (10150)
Apparent Porosity %	< 18 (before impregnation)
Modulus of rupture, Mpa (psi)	
@22°C	16 (2320)
@1482°C	2 (290)
Refractoriness under load, °C (°F)	1590 (2895)

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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