



Atlas® 95: Burned Magnesite Brick

DESCRIPTION: Burned and ceramically bonded magnesite brick. Available with or without tar impregnation. Burned brick has a higher porosity than chemically bonded brick, so in certain applications, tar could help reduce slag penetration.

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

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

MgO	95.0%
Silica	1.6%
CaO	1.4%
Fe ₂ O ₃	1.1%
Al ₂ O ₃	0.7%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%)	< 18.0 (before impregnation)
Bulk Density, original g/cm ³ (pcf)	2.94 (183)
Cold Crushing Strength MPa (psi)	100 (14,500)
Modulus of rupture MPa (psi):	
@ 22°C (°F)	15 (2175)
@ 1482°C (°F)	3 (435)
Refractoriness under load °C (°F)	1620 (2948)

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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