INFORMATION BULLETIN

Atlas® 92: 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 %)

MgO	92.4%
Silica	3.7%
CaO	1.4%
Al_2O_3	1.0%
Fe_2O_3	1.0%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	< 18.0 (before impregnation)
Bulk Density, original g/cm^3 (pcf):	2.90 (181)
Cold Crushing Strength MPa (psi):	70 (10,150)
Modulus of rupture MPa (psi):	
@ 22°C (°F)	16 (2320)
@ 1482°C (°F)	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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Phone: 1-800-609-5711
www.FRCglobal.com