INFORMATION BULLETIN

Atlas 98: 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 working lining and sub-hearth.
BOF safety linings.

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

MgO	98.0%
CaO	1.6%
Silica	1.0%
Al_2O_3	0.2%
Fe_2O_3	0.2%

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity (%):	< 18
Bulk Density, original g/cm^3 (pcf):	2.95 (184)
Cold Crushing Strength MPa (psi):	70 (10,150)
Modulus of rupture MPa (psi):	
@ 22° C (° F)	13 (1885)
@ 1482° C (° F)	4 (580)
Refractoriness under load ° C (° F):	1630 (2966)

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.

Version 20.11

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