



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 ₂ O ₃ | 0.2% |
| Fe ₂ O ₃ | 0.2% |

TYPICAL AS RECEIVED PROPERTIES:

| | |
|--|-------------|
| Apparent Porosity (%) | < 18.0 |
| 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.

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