



Atlas 95: Burned Magnesite Brick

DESCRIPTION: Burned and ceramically-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 | 95 % |
| CaO | 1.4 % |
| Silica | 1.6 % |
| Fe ₂ O ₃ | 1.1 % |
| Al ₂ O ₃ | 0.7 % |

TYPICAL AS RECEIVED PROPERTIES:

| | |
|--------------------------------------|----------------------------|
| Bulk Density g/cm ³ (pcf) | 2.94 (183) |
| Cold Crushing Strength Mpa (psi) | 100 (14500) |
| Apparent Porosity % | < 18 (before impregnation) |
| Modulus of rupture Mpa (psi) | |
| @22°C | 15 (2175) |
| @1482°C | 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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