



Magfill

DESCRIPTION: High-temperature calcined synthetic forsterite material, featuring low density for economy with very high refractoriness for outstanding free open rates. Contains no chrome or free silica. Chemistry minimizes taphole wear due to corrosion. High fusion temperature, low thermal expansion and conductivity, excellent cost/performance ratio, and quick and easy supply.

USES INCLUDE:

Standard Size

- 2 + 10 mesh	EBT taphole fill
- 3 + 10 mesh	EBT taphole fill
- 4 + 10 mesh	EBT taphole fill
12 - 40 mesh	EBT taphole fill
- 20 + 70 mesh	EBT taphole or ladle nozzle fill
- 40 + 140 mesh	EBT taphole or ladle nozzle fill
- 16 + 60 mesh	Taphole or ladle nozzle fill
- 30 + 60 mesh	Taphole or ladle nozzle fill
- 35 + 70 mesh	Taphole or ladle nozzle fill

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

MgO	45.0 - 55.0%
SiO ₂	35.0 - 54.0%**
Fe ₂ O ₃	5.0 - 7.0%
Others	1.0 - 2.0%
Al ₂ O ₃	< 2.0%
CaO	< 2.0%
L.O.I.	< 1.0%

**Linked with magnesium oxide (MgO) in silicate form, less than 1% silica-free.

TYPICAL AS RECEIVED PROPERTIES:

Bulk Density (lb./ft ³):	82 - 87
Color:	Brown
Fusion Temperature (°C):	> 1700



INFORMATION BULLETIN

Hardness (Mohs scale):	6.0 – 6.5
pH:	8.4
Thermal Conductivity:	Very low
Thermal Expansion (% in/in):	0.01

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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