

### MAGFILL

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#### DESCRIPTION:

MAGFILL sand is a high-temperature calcined synthetic forsterite material featuring low density for economy, and with very high refractoriness for outstanding free open rates. Our MAGFILL sand contains no chrome or free silica. This chemistry minimizes taphole wear due to corrosion.

- High fusion temperature
- Low thermal expansion and conductivity
- Excellent cost/performance ratio
- Quick and easy supply

#### Standard Size:

-20 +70 mesh  
-40 +140 mesh  
-2+10 mesh  
-3+10 mesh  
-4+10 mesh  
-16+60 mesh  
-30+60 mesh  
-35+70 mesh  
12 -40 mesh

#### Uses Include:

EBT taphole or ladle nozzle fill  
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EBT taphole fill  
Taphole or ladle nozzle fill  
Taphole or ladle nozzle fill  
Ladle or tundish nozzle fill  
EBT taphole fill

#### TYPICAL CHEMICAL ANALYSIS (% by weight):

MgO	%	45-55
SiO <sub>2</sub>	%	35-54**
Fe <sub>2</sub> O <sub>3</sub>	%	5-7
Al <sub>2</sub> O <sub>3</sub>	%	Less than 2
CaO	%	Less than 2
L.O.I	%	Less than 1
Others	%	1.0-2.0

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

#### TYPICAL AS RECEIVED PROPERTIES:

Color:	Brown
Fusion Temperature °C:	>1700
Hardness (mohs scale):	6 to 6.5
Thermal expansion % in/in:	0.01
Thermal conductivity:	Very low
Bulk Density lbs/ft <sup>3</sup> :	82-87
pH:	8.4

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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