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## MAGFILL®

**SYNTHETIC OLIVINE – MAGNESIUM SILICATE – FORSTERITE - ENSTATITE  
 REFRACTORY SAND PRODUCT**

**ADVANTAGES:**

- High fusion temperature
- Low thermal Expansion and conductivity
- Excellent cost to performance ratio
- Quick and easy supply
- Low bulk density

**OUR STANDARD GRANULOMETRY**

Sizes	Brand name	MAIN USAGES
-3 +10	MAGFILL®	Refractory sand as E.B.T. TAP Hole Filler
-4 +10	MAGFILL®	Refractory sand as E.B.T. TAP Hole Filler
12 - 40	MAGFILL®	Refractory sand as E.B.T. TAP Hole Filler
16 - 60	JETMAG®	Backing sand, Ladle insulator and Traction for Locomotive
30 - 60	JETMAG®	Backing sand, Ladle insulator and Traction for Locomotive

Other possible sizes under **JETMAG** banner: 35 - 70, 200 Mesh

Chemical analysis		Physical properties
ELEMENTS	% weight	Color : Brown
MgO	38 - 42	Fusion Temperature : > 1700°C
SiO <sub>2</sub> *	39 - 47	Softening Temperature (Pasty texture): 1450 - 1700°C
Fe <sub>2</sub> O <sub>3</sub>	7 - 10	Thermal Expansion : 0,01% in/in
Al <sub>2</sub> O <sub>3</sub>	0.3 - 1.3	Thermal Conductivity: Low
CaO	0.8 - 1	Hardness : 7 À 7,5 on the Mohs scale
Others	1 - 2	Compacted Density : 93 - 100
L.O.I.	0.1 – 2.0	Angular PH : 8.4
		* Upon granulometry

MINERAL ANALYSIS			
Minerals	% Weight	Minerals	% Weight
Forsterite (Mg <sub>2</sub> SiO <sub>4</sub> )	50 - 60	Maghemite	2 - 8
Enstatite	25 - 30	Magneso-Ferrite	8 - 10
Remainder	4 - 5	<b>Total</b>	<b>100</b>

\* More than 99 % of the silica is chemically link to magnesium with less than 1 % de free silica.

Revision : May 2024	Technical data MAGFILL EN	By : Ben Piuze	Public/Fiche Technique
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