

LES SABLES **OLIMAG** SANDS INC.
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SYNTHETIC OLIVINE - MAGNESIUM SILICATE - FORSTERITE - ENSTATITE
 REFRACTORY SAND PRODUCT

MAIN USES: REFRACTORY SAND AS E.B.T. TAP HOLE FILLER, BACKING SAND
 AND LADDLE INSULATOR

ADVANTAGES:

- HIGH FUSION TEMPERATURE
- LOW THERMAL EXPANSION AND CONDUCTIVITY
- EXCELLENT COST / PERFORMANCE RATIO
- QUICK AND EASY SUPPLY
- LOW BULK DENSITY

STANDARD SIZES: -3+10, -4+10, 12-40

OTHER POSSIBLE SIZES UNDER JETMAG BANNER: 16-60, 30-60, 35-70, 200 Mesh

PHYSICAL PROPERTIES:

Colour	: Brown
Fusion temperature	: > 1700°C
Softening temp. (Pasty texture)	: 1450 - 1500°C
Hardness (mohs scale)	: 6 to 6.5
Thermal expansion	: 0,01% in/in
Thermal conductivity	: Low
Bulk density	: 82 - 87 lbs/ft ³ *, 1.25-1.39 g/cc*
Compacted density	: 93 - 100
lbs/ft ³ * Particle shape	:
Angular pH	: 8.4

*According to size

CHEMICAL ANALYSIS		MINERAL ANALYSIS	
ELEMENTS	% WEIGHT	MINERALS	% WEIGHT
MgO	38 - 42	Forsterite (Mg ₂ SiO ₄)	50 - 60
SiO ₂ *	39 - 47	Enstatite (Mg SiO ₃)	25 - 30
Fe ₂ O ₃	7 - 10	Maghemite (Fe ₂ O ₃)	2 - 8

Al ₂ O ₃	0.3 - 1.3	Magnesio-ferrite	8 - 10
CaO	0.8 - 1	Remainder	4 - 5
L.O.I.	0.1 - 0.2		
Others	1.0 - 2.0		
TOTAL	100	TOTAL	100

*More than 99% of the silica is chemically linked to magnesium