



OLIVINE SAND

CHEMICAL ANALYSIS

Olivin (Mg-Fe)₂SiO₄ 95 – 97 %
Pyroxene, spinel, chromite 3 – 5 %

MgO	44 – 49 %
SiO₂	40 – 43 %
Fe₂O₃	0,2 – 2 %
FeO	6 – 7 %
Al₂O₃	0,3 – 1 %
CaO	0,1 – 1 %
SiO₂ free	none

loss of ignition 0,1 – 0,9 %

SIZE ANALYSIS

microns	typical	specification
800	0,00 %	0,0 %
630	0,32 %	max. 1,6 %
400	24,23 %	
315	20,55 %	
200	36,02 %	
160	10,74 %	
100	7,61 %	
80	0,32 %	
63	0,07 %	
Pan	0,15 %	max. 1,0 %

PHYSICAL ANALYSIS

Average grain size **Grain shape**
AFS 50 polyhedric
0,33 mm

Hardness **pH value**
6,5 - 7,0 Mohs scale ultrabasic 8-10

Specific weight **Bulk density**
3 200 – 3 300 kg/m³ 1 500 – 1 700 kg/m³

Melting point **Sintering point**
approx. 1 760 °C 1 380 °C – 1400 °C

Thermal expansion
linear approx. 0,8 – 1,3 % at 800°C

Compression strength
> 2 620 kg/cm²

Humidity
max. 0,1 %

