

## Data sheet for Olivine

### **Description:**

Olivine refractory brick having thermal and physical properties suitable for use as a thermal energy storage and characterized by having excellent thermal shock properties and resistance to spalling. The brick consists essentially of densely compacted grains of olivine and hydraulic binders.

### **Technical characteristics:**

Density:	2400 – 2500 kg/m <sup>3</sup>
Thermal resistance	min 800°C
Thermal conductivity (400°C)	0,637 W/mK
Specific heat (400°C)	0,248 cal/g°C
Bending strength:	min 6,0 MPa
Compression strength:	min 30,0 MPa

### **Main components:**

Olivine	~67 – 75%
Hydraulic binders	~15 – 20%
Pigments	~0,3 – 0,6%
Additive	~9 – 12%
Admixtures	~0,7 – 4,5%

### **Areas of use:**

Olivine refractories can be used to heat accumulation. It also can be used for various industrial furnaces and lattice brick in regenerator and ingot brick. It also has good effects being used in furnace bottom and hot stove. It can successfully replace Soapstone. Olivine can be produced in any demanded shape.

### **Health hazards:**

N/A

### **Producer:**

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