



Introduction

Olivine based EBT Filler compound is high refractory Granular material, which is used in Electric Arc Furnace with Eccentric Bottom Tapping for free and easier opening of Tap hole. This does not sinter under steel making temperatures and hence remains highly flow able at high temperatures, thus gets out freely ensuring uniform stream of hot liquid. It also minimizes the impact of lancing or poking on tap hole refractory and hence increases tap hole refractory lining life.

General Description

Olivine Sand

Appearance and odor

Olivine is a Grayish sandy odorless material, which is free flowing when dry. It is insoluble in water and any common organic solvents

Typical Specification

MgO	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	Cr ₂ O ₃	CaO	L.O.I
49% Max	41% Max	8% Max	1% Max	0.25 Max	0.2% Max	0.5%-1.5%



Toxicology

N/A

Important Properties

Melting Point: 1850-1900 °C

Bulk Density, Loose (g/cm³): 1.9-2.1

Thermal Expansion (in. /in.): 0.0083

Loss on Ignition: <1.5%

Thermal Conductivity @1000°C (Cal/s-cm-°C): 0.0025

Mohs Hardness @20°C: 7.0 (Scale 7-8000)

PH Slightly: Basic

Free Silica Content (%): < 0.1

Specific Gravity: 3.2-3.4 g/cc

Fusion temperature of Olivine Sand: ~ Approx. 1750 °C

Grade

EBT Filling Mass¹: 0-1 mm

2-6 mm

3-8 mm



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¹ It depends on customer request.