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Technical Data Sheet

Magnesia Gunning Mass

MgO 85% min, 0–3 mm, for dry gunning and hot repair

Description

Magnesia gunning mass is a basic, MgO-based refractory mix of sintered magnesia grain with a small amount of bonding agent, applied by dry gunning to repair worn linings while the furnace is hot. With at least 85% MgO and a maximum service temperature of 1,700°C, it bonds quickly to the hot lining and gives good resistance to basic slag, which extends lining life and cuts downtime. It is sprayed in place with a gunning machine, so no formwork is needed. Ochnology Solution Pvt. Ltd. is a manufacturer and supplier of gunning mass and spraying mass (MgO, alumina and silica based) for steel plants and foundries in India and worldwide.

Typical Applications

- Hot repair of BOF, EAF and induction furnace linings
- Steel ladles, tundishes and ferroalloy furnaces
- Slag line and wear-zone maintenance in basic-lined vessels

Specification

S. No.	Parameter	Specification	Test Method
1	**Magnesium Oxide (MgO), %**	≥ 85	XRF / chemical analysis
2	**Silicon Dioxide (SiO_2), %**	≤ 6.0	XRF / chemical analysis
3	**Calcium Oxide (CaO), %**	≤ 3.0	XRF / chemical analysis
4	**Iron Oxide (Fe_2O_3), %**	≤ 3.0	XRF / chemical analysis
5	**Bulk Density after drying at 110°C, g/cm³**	≥ 2.40	ASTM C134 / IS 1528
6	**Cold Crushing Strength after 110°C, MPa**	≥ 20	ASTM C133 / IS 1528
7	**Maximum Service Temperature, °C**	1,700	Manufacturer's rating
8	**Grain Size, mm**	0 – 3	Sieve analysis

General Properties

Product	Magnesia gunning mass, dry gunning grade
Form	Dry granular mix
Packing	25 kg bags or 1 MT jumbo bags

Handling and Storage

- Store in a dry, covered place, away from moisture; keep bags sealed until use
- Apply with a gunning machine according to the equipment maker's water-addition and pressure guidance
- For safety information, refer to the accompanying Safety Data Sheet (SDS)

Disclaimer: The information in this document is typical and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own evaluation under end-use conditions before use.