



PANCHMAHAL INSULATIONS PVT. LTD.

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PRODUCT DATA SHEET

BASIC TUNDISH COVERING COMPOUND

This **Basic Tundish Covering Compound** is a premium, highly basic refractory flux designed specifically for tundish applications in continuous casting. Formulated with an optimized Calcium Oxide (CaO) and Magnesium Oxide (MgO) matrix, it provides a highly effective thermal barrier while actively absorbing non-metallic inclusions and minimizing chemical wear on basic tundish refractory linings.

FEATURES & BENEFITS

- **Refractory Protection:** The high MgO content (12-18%) helps saturate the slag, significantly reducing the chemical erosion of magnesia-based tundish wear linings and extending the sequence length.
- **Enhanced Steel Cleanliness:** The highly basic CaO-rich matrix (38-47%) provides an excellent capacity to trap and assimilate non-metallic inclusions floating up from the molten steel.
- **Effective Thermal Insulation:** With a controlled bulk density of 0.8 to 1.0 kg/dm³, the powder forms a stable, lightweight insulating layer that minimizes heat loss and prevents the steel surface from freezing.
- **Optimal Operating Range:** Engineered to melt and perform reliably within a wide continuous casting temperature range of 1350°C to 1550°C.

APPLICATIONS

- Specifically applied as a basic **Covering Compound** for tundish operations during the continuous casting of clean steel grades.
- Ideal for operations utilizing basic (magnesia) tundish working linings where refractory life extension is a priority.

TECHNICAL SPECIFICATIONS

Parameter	Specification / Value
Product Description	Compound
Type	Basic Covering Compound
Application Area	Tundish
Temperature Range	1350 to 1550 °C
Bulk Density	0.8 - 1.0 Kg/dm ³



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CHEMICAL COMPOSITION

Major Component	Percentage (%)
CaO (Calcium Oxide)	38.0 - 47.0%
MgO (Magnesium Oxide)	12.0 - 18.0%
SiO ₂ (Silicon Dioxide)	2.0 - 5.0%
Al ₂ O ₃ (Aluminum Oxide)	3.00%
Fe ₂ O ₃ (Iron Oxide)	1.50%

PACKING & STORAGE

- **Packing:** Material is dual-packed for maximum convenience and protection. It is primary-packed in **10 kg bags**, which are then bulk-loaded into a **1 Ton (Metric Ton) Jumbo Bag**. This allows for easy manual dosing on the cast floor while retaining bulk transport efficiency.
- **Shelf Life:** 6 to 12 months when stored under proper dry conditions.
- **Handling & Storage:** Due to its high CaO content, the compound is hygroscopic. It must be stored in a completely dry, covered, and well-ventilated warehouse. Exposure to ambient moisture will degrade its performance and introduce hydrogen risks during casting. The jumbo bags and inner 10 kg bags must remain tightly sealed until immediately prior to use.

