



# PANCHMAHAL INSULATIONS PVT. LTD.

📍 **Works** : 32, GIDC Indl. Area, Ta. Kalol (Halol), Dist. Panchmahals, Gujarat, India - 389 330.

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## PRODUCT DATA SHEET

### ACIDIC TUNDISH COVERING COMPOUND

This **Acidic Tundish Covering Compound** is a high-silica, solid-form refractory flux specifically formulated for continuous casting operations. Engineered with a robust 90% silica content, it generates an effective acidic insulating layer over the molten steel in the tundish, providing excellent thermal retention while maintaining strict moisture control for enhanced operational safety.

### FEATURES & BENEFITS

- **High Silica Insulation:** The 90% SiO<sub>2</sub> composition creates a stable, acidic thermal barrier that significantly reduces heat radiation and prevents premature freezing of the molten steel.
- **Strict Moisture Control:** Formulated with less than 1.5% moisture to prevent hydrogen pick-up in the steel bath and eliminate the risk of splashing during application.
- **Controlled Impurities:** Low levels of Alumina (< 2.5%) and Manganese Oxide (< 0.5%) ensure the compound maintains its intended acidic slag chemistry without introducing unwanted metallurgical reactions.
- **Convenient Dosing:** Packaged in small, easily manageable 6 to 7 kg bags, allowing operators to rapidly and accurately dose the tundish by hand without the need for bulk handling equipment.

### APPLICATIONS

- Specifically applied as a **Tundish Covering Compound (TCC)** in continuous casting processes requiring an acidic slag practice.
- Thermal insulation for molten steel baths where high silica content is metallurgically acceptable or desired.

### TECHNICAL SPECIFICATIONS

Parameter	Specification / Value
Product Description	Tundish Covering Compound
Type	Acidic
Application Area	Tundish Covering
Material Form	Solid
Moisture Content	< 1.5% (Max)
Standard Container	6 to 7 Kg Bag



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## CHEMICAL COMPOSITION

Major Component	Percentage (%)
SiO <sub>2</sub> (Silicon Dioxide)	90.00%
Al <sub>2</sub> O <sub>3</sub> (Aluminum Oxide)	< 2.5%
MnO (Manganese Oxide)	< 0.5% (Max)

## PACKING & STORAGE

- **Packing:** Material is precisely weighed and packed in **6 to 7 kg moisture-resistant bags** (e.g., poly-lined paper or heavy-duty HDPE bags) for convenient manual handling on the cast floor.
- **Shelf Life:** 6 to 12 months when stored under proper conditions.
- **Handling & Storage:** Must be stored in a dry, covered, and well-ventilated warehouse. Despite its controlled manufacturing moisture, the compound must be protected from rain and high humidity to prevent moisture absorption prior to application on the molten steel.

