



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

ALUMINA TUNDISH COVERING INSULATION

This **Alumina-Based Tundish Covering Insulation** is a high-performance, fine-powder refractory compound designed for continuous casting applications. Formulated with a robust 60-65% alumina content, it provides an exceptional thermal barrier over the molten steel in the tundish, ensuring temperature stability while maintaining a clean, low-fume operating environment on the cast floor.

FEATURES & BENEFITS

- **Superior Thermal Retention:** The high alumina content and optimized loose density (0.65 - 0.85 g/cc) create a lightweight, highly porous insulating layer that effectively traps heat and prevents the steel surface from freezing.
- **Excellent Spreadability:** Precisely milled to a fine 100 Mesh size, the powder flows and spreads rapidly and uniformly across the molten steel bath without crusting.
- **Low Fume Generation:** Specially formulated to minimize smoke and fumes during application and operation, significantly improving visibility, safety, and working conditions for the casting operators.
- **Stable Performance:** Engineered to perform reliably at a continuous temperature rating of 1350°C.

APPLICATIONS

- Specifically applied as an insulating **Tundish Covering Compound** during the continuous casting of steel.
- Operations prioritizing cast floor visibility and environmental safety due to its low-fume characteristics.

TECHNICAL SPECIFICATIONS

Parameter	Specification / Value
Product Description	Insulation
Type	Tundish Covering Insulation
Make / Model	Alumina Base / Tundish Covering Compound
Form	Powder
Size / Granulometry	100 Mesh
Loose Density	0.65 - 0.85 g/cc
Temperature Rating	1350 °C
Additional Properties	Good spreadability, very low fume generation



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CHEMICAL COMPOSITION

Major Component	Percentage (%)
Al ₂ O ₃ (Aluminum Oxide)	60.0 - 65.0%

PACKING & STORAGE

- **Packing:** Typically packed in heavy-duty, moisture-proof multi-wall paper bags with plastic inner liners (e.g., 25 kg / 50 kg), or in bulk Jumbo Bags to facilitate easy and clean dosing.
- **Shelf Life:** 6 to 12 months when stored under proper dry conditions.
- **Handling & Storage:** The powder must be stored in a completely dry, covered, and well-ventilated warehouse. Despite its low-fume properties, standard PPE (dust mask, gloves) is recommended during handling due to the fine 100 Mesh particle size. Ensure bags remain tightly sealed until immediately prior to application.

