PYROMOLDABLE NRM 25

NON-RCF MOLDABLE PASTE FOR MOLTEN ALUMINIUM APPLICATIONS

Pyromoldable NRM 25 is a non-refractory ceramic fiber (non-RCF) durable and insulating refractory composition designed for making shapes on site. Common applications include linings of distribution launders for DC slab casting and Wagstaff table launders.

BENEFITS

- Premium non-refractory ceramic fiber formulation
- Stronger adhesion strength to most any surface
- Low density with high insulating properties
- Nonwetting to molten aluminium
- Easy to handle
- Higher strength and abrasion resistance than conventional products

APPLICATIONS

- Jointing between refractories
- Repairing cracks of refractories
- Hot-face lining of SIVEX filter bowls
- Launder linings
- Lining of distribution launders for DC casting tables
- Industrial furnace linings
- Back-up material behind hot-face linings

PHYSICAL PROPERTIES

Appearance	White gray paste
Bulk Density	Before drying: 1.6 g/cm^3 (0.06lb/in^3) After drying: 0.8 g/cm^3 (0.03lb/in^3)
Thermal Conductivity	0.49 W/(m*K) (0.28 BTU/hr*ft*F) (at 500°C or 932°F)
Maximum Service Temperature	1150°C (2102°F)
Linear Shrinkage Rate	0.4% (at 800°C or 1472°F)
Transverse Strength	2.0 MPa (290 psi) (dried at 750°C or 1382°F)
Chemical Composition	SiO_2 (75-85%) Al_2O_3 (3-8%) CaO (3-8%)

AVAILABILITY

20 kg (44 lb) cans

USE INSTRUCTIONS

1. Remove dust or oil from the surface of the substrate. Apply by spatula or trowel. Anchors, iron mesh, or fiberglass mesh may be useful for better adhesion.
2. Drying

2-1. For the thickness around 10 mm (0.4 in):
Use torch burner with a small flame for 30 minutes. If used in a kiln, before use at 100-200°C (212-392°F) for 1-2 hours. Then at 400-500°C (752-932°F) for more than 30 minutes.

2-2. For the thickness around 30 mm (1.2 in):
Use torch burner with a small flame for 3 hours. If used in a kiln, dry with a torch burner with a small flame for 30 minutes. Then, kiln dry before use at 500°C (932°F) for more than 4 hours

3-3. For thickness over 50 mm (2.0 in):
First, dry 50 mm (2.0 in) thickness. After, build up thickness further, drying between layers.

3. After drying, coat the surface with any coating to improve nonwetting to molten aluminium.

HEALTH AND SAFETY

Prior to use, refer to the product safety data sheet (SDS) for proper handling and required personal protective equipment.

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

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