



# PYROMOLDABLE NRM 16

## NON-RCF MOLDABLE PASTE FOR MOLTEN ALUMINIUM APPLICATIONS

Pyromoldable NRM 16 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
- Low density with high insulating properties
- Nonwetting to molten aluminium
- Easy to handle
- Saves drying time
- Immediate heating for drying is possible just after molding

### APPLICATIONS

- Launder linings
- Lining of distribution launders for DC casting tables
- Industrial furnace linings
- Backup material behind hot-face linings

### PHYSICAL PROPERTIES

Appearance	White gray paste
Bulk Density	Before drying: 1.4 g/cm <sup>3</sup> (0.05lb/in <sup>3</sup> ) After drying: 0.7 g/cm <sup>3</sup> (0.03lb/in <sup>3</sup> )
Thermal Conductivity	0.3 W/(m*K) (0.17 BTU/hr*ft*F) (at 500°C or 932°F)
Maximum Service Temperature	1300°C (2372°F)
Linear Shrinkage Rate	0.4% (at 800°C or 1472°F)
Transverse Strength	1.73 MPa (251 psi) (dried at 750°C or 1382°F)
Chemical Composition	SiO <sub>2</sub> (80-85%) MgO (5-15%)



### 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 thickness less than 30 mm (1.2 in):  
Use torch burner for more than 1 hour (directly dry the surface of NRM 16). If used in a kiln, dry with torch burner for 30 minutes. Then, kiln dry before use at 500°C (932°F) for more than 1 hour.
  - 2-2. For thickness of 30 mm (1.2 in) or more:  
Use torch burner for more than 3 hours (directly dry the surface of NRM 16). Shell casing should have holes to release vapor/air. If used in a kiln, dry with torch burner for 1 hour. Then, kiln dry before use at 500°C (932°F) for more than 3 hours. Before using the kiln, the shell casing should have holes to release vapor/air.
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.

