

# PRODUCT BULLETIN

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**ALLIED  
MINERAL**  
PRODUCTS, INC.

## MINRO-AL PLASTIC A85 AND PLASTER A87

### General Information

**MINRO-AL PLASTIC A85** and **MINRO-AL PLASTER A87** are phosphoric acid-bonded, bauxite-based refractories recommended for patching refractory linings. **MINRO-AL PLASTIC A85** is also recommended for use as a top cap and spout material on new or used linings. A85 may also serve as the lining or maintenance refractory in ladles as well as other hot metal transfer and heat containment equipment.

While these products are similar in chemical composition and grain sizing, **MINRO-AL PLASTER A87** is more workable and is utilized for thin, veneer-type patching. **MINRO-AL PLASTIC A85** is recommended for thicker sections and when ramming with the aid of forms. These products offer the following benefits and features:

- > Good thermal shock properties
- > Abrasion and corrosion resistant
- > Excellent hot strength

### Technical Data

#### Chemical Analysis

(Major Components)

Al <sub>2</sub> O <sub>3</sub>	81.1%
SiO <sub>2</sub>	11.8%
P <sub>2</sub> O <sub>5</sub>	2.9%

Material Required .....	177 lbs. per cubic foot (2.84 g/cm <sup>3</sup> )
Grain Size .....	8 mesh (3 mm) and finer
Maximum Use Temperature .....	3000°F (1650°C)
Installation Method .....	Pneumatic ram or hand tamp
Procedure(s) .....	G-56 (See reverse)

**MINRO-AL PLASTIC A85** is packaged in 55-lb. (25.0 kg) cartons with plastic liners. Palletized 64 cartons (3520 lbs. or 1600 kg) per 42" x 42" pallet, protected with stretch wrap. **MINRO-AL PLASTER A87** is packaged in 55-lb. (25.0 kg) plastic pails. Palletized 36 pails (1980 lbs. or 900 kg) per 36" x 48" pallet, protected with stretch wrap. Storage beyond 6 months is not recommended in order to maintain optimal workability characteristics. Store in a cool, dry location. Keep from freezing.

Allied Mineral Products, Inc. supplies a *complete line* of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

**Warning:** Contains phosphoric acid, aluminum oxide, aluminum silicate, and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Refer to Material Safety Data Sheet for additional information and disposal instructions. Avoid eye and skin contact. Product may cause skin and eye irritation. Wear protective gloves and safety goggles. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. In case of eye contact, flush immediately and repeatedly with water and consult a physician. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. For safest use and optimum performance, proper practices must be followed.

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