

# PRODUCT BULLETIN

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**MATRIX  
REFRACTORIES**  
A Division of  
ALLIED MINERAL  
PRODUCTS, INC.

## MATRIKOTE 90AC

### General Information

MATRIKOTE 90AC is a high alumina, fine grained refractory designed for thin coatings applied over hot or cold surfaces. It is chemically bonded and exhibits high strength at elevated temperatures. This versatile material can be brushed or trowelled in place, or applied wet through slurry gun systems. It can be used in all types of furnaces as a maintenance coating including aluminum melting and holding furnaces, molten aluminum transfer troughs, and filtration equipment.

- > Versatile application methods
- > Aluminum and aluminum alloy non-wetting properties

### Technical Data

#### Chemical Analysis \*

Al <sub>2</sub> O <sub>3</sub>	90.4%
SiO <sub>2</sub>	1.5%
P <sub>2</sub> O <sub>5</sub>	2.7%

Material Required.....	2.88 g/cm <sup>3</sup> (180 lb./ft. <sup>3</sup> )
Grain Size .....	50 mesh (0.3 mm) and finer
Maximum Temperature Limit .....	1650°C (3000°F)
Installation Method.....	brush, trowel or spray

Packaged in 25 kg (55 lb.) plastic pails with lids. Palletized 36 pails (900 kg or 1980 lbs.) per 36" x 48" pallet protected with stretch wrap. Storage beyond 6 months is not recommended. Keep from freezing.

MATRIX REFRACTORIES DIVISION 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 MATRIX representative.

\*Proprietary ingredient not included in chemistry.

**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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