

# PRODUCT BULLETIN

2700 Scioto Parkway Columbus, Ohio 43221 USA 614/876-0244 Fax: 614/876-0981  
www.alliedmineral.com



**ALLIED  
MINERAL**  
PRODUCTS, INC.

## MATRIGUN 70AC-HOT

### General Information

MATRIGUN 70AC-HOT is an alumina-based gunning mix that develops an excellent bond with existing refractory surfaces. It may be applied to either hot or cold surfaces. This product is ideal for resurfacing worn linings. MATRIGUN 70AC-HOT is well suited for aluminum, as well as ferrous and other non-ferrous metal. It can be applied with most conventional gunnite equipment and is suitable for application both above and below the metal line. This product is also available in a “low dust” formulation.

### Technical Data

#### Chemical Analysis\*

(Major Components)

Al <sub>2</sub> O <sub>3</sub>	66.9%
SiO <sub>2</sub>	28.5%
CaO	1.4%
Fe <sub>2</sub> O <sub>3</sub>	1.1%

\*Proprietary ingredients not included.

Material Required .....	2.24 g/cm <sup>3</sup> (140 lb/ft <sup>3</sup> )
Grain Size .....	5 mm (4 mesh) and finer
Water Required .....	At nozzle
Maximum Application Temperature .....	1540°C (2800°F)
Installation Method .....	Gunning

Packaged in 25.0 kg (55-lb.) multi-wall paper bags. Also available in bulk packaging. Store in a dry location to avoid moisture pick-up. Storage beyond 6 months is not recommended.

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 aluminum oxide, aluminum silicates, cement, 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 breathing dust. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Avoid contact with skin or eyes. Cement powder or freshly mixed castable may cause eye and skin irritation. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. In case of eye contact, flush immediately and repeatedly with water and consult a physician. Hydrogen gas may be generated when product is exposed to water. Ignition of hydrogen gas in an enclosed area can lead to personal injury. Proper ventilation should be supplied to avoid gas buildup. For safest use and optimum performance, proper practices must be followed.

(MXMG70ACH)  
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## Laboratory Test Bar Data

# MATRIGUN 70AC-HOT

<u>Permanent Linear Change</u>	<u>%</u>
After heating to:	
110°C ( 230°F)	-
815°C (1500°F)	-0.20
1090°C (2000°F)	-0.25
1370°C (2500°F)	-0.40

<u>Density</u>	<u>g/cm<sup>3</sup></u>	<u>kg/m<sup>3</sup></u>	<u>pcf</u>
After heating to:			
110°C ( 230°F)	2.27	2270	142
815°C (1500°F)	2.24	2240	140
1090°C (2000°F)	2.24	2240	140
1370°C (2500°F)	2.24	2240	140

<u>Modulus of Rupture</u>	<u>MPa</u>	<u>kg/cm<sup>2</sup></u>	<u>psi</u>
After heating to:			
110°C ( 230°F)	2.76	28.1	400
815°C (1500°F)	4.96	50.6	720
1090°C (2000°F)	5.86	59.8	850
1370°C (2500°F)	7.79	79.5	1130



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