

PRODUCT BULLETIN



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

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MATRIGUN 25ACX

General Information

MATRIGUN 25ACX is a general purpose, non-wetting to aluminum, super duty gunning mix that can also be installed by hand packing. It is an ideal choice for quickly installing backup linings in the aluminum industry for melting and holding furnaces. MATRIGUN 25ACX can be applied with most conventional gunnite equipment.

Technical Data

Chemical Analysis

(Major Components)

Al ₂ O ₃	43.9%
SiO ₂	40.8%
CaO	8.6%
Fe ₂ O ₃	2.4%

Material Required*	1.96 g/cm ³ (122 lb. /ft ³)
Grain Size	5.0 mm (4 mesh) and finer
Maximum Use Temperature	1300°C (2370°F)
Installation Method	Gunning

* Material required does not include rebound loss.

Packaged in 25 kg (55-lb.) multi-wall paper bags, protected with stretch wrap. Also available in bulk packaging. Storage beyond 6 months is not recommended. Store in a dry location to avoid moisture pickup.

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.

Warning: Contains aluminum oxide, calcium aluminate cement, aluminosilicates, and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristoballite 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 and 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.

(MXMG25ACX)

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LABORATORY TEST BAR DATA

MATRIGUN 25 ACX

	Gunned		
<u>Density</u>	<u>g/cm³</u>	<u>kg/m³</u>	<u>pcf</u>
After firing to:			
105°C (230°F)	2.13	2131	133
816°C (1500°F)	1.95	1954	122
1093°C (2000°F)	1.99	1986	124
<u>Modulus Of Rupture</u>	<u>MPa</u>	<u>kg/cm²</u>	<u>psi</u>
After firing to:			
105°C (230°F)	10.5	107.2	1525
816°C (1500°F)	6.0	61.5	875
1093°C (2000°F)	5.5	56.2	800
<u>Cold Crushing</u>	<u>MPa</u>	<u>kg/cm²</u>	<u>psi</u>
After firing to:			
105°C (230°F)	39.8	406.0	5775
816°C (1500°F)	39.8	406.0	5775
1093°C (2000°F)	25.8	263.6	3750
<u>Permanent Linear Change</u>	<u>%</u>		
After firing to:			
105°C (105°F)	---		
816°C (1500°F)	-0.2		
1093°C (2000°F)	-0.6		



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