

PRODUCT BULLETIN

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**ALLIED
MINERAL**
PRODUCTS, INC.

MINRO-MAG PATCH M11

General Information

MINRO-MAG PATCH M11 is a high-purity, *magnesia-based* refractory patch designed as a hot-capping product for MINRO-MAG RAM M10 inductor linings. The use of M11 is recommended when performing hot and cold inductors. This product offers the following benefits and features:

- > Ideal for refractory upset above the inductor flange
- > Eliminates the need to spray coat refractory surface
- > Provides a durable surface, suitable for mounting

Technical Data

Chemical Analysis

MgO	83.8%
Al ₂ O ₃	10.0%
P ₂ O ₅	2.2%
CaO	1.5%
SiO ₂	1.2%
Na ₂ O	1.1%
Fe ₂ O ₃	0.2%

Material Required	2.64 g/cm ³ (165 lb./ft ³)
Grain Size	6 mesh (4 mm) and finer
Practical Temperature Limit.....	1785°C (3250°F)
Installation Method	Mix to pouring consistency
Procedure(s)	CH-19

Packaged in 25 kg (55 lb.) multi-wall paper bags protected with stretch wrap. Storage beyond 12 months is not recommended. Store in a dry location to avoid moisture pickup.

Application Data

Water Required:	8.5-11% depending on desired consistency
Working Time:	10-15 minutes

*Product shipped dry. Mixed with water on site.

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 magnesium oxide, aluminum oxide, 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. 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.

M11
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