

# PRODUCT BULLETIN

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**ALLIED  
MINERAL**  
PRODUCTS, INC.

## MINRO-AL<sup>®</sup> CAST A44

### General Information

MINRO-AL<sup>®</sup> CAST A44 is a tabular alumina-based refractory castable recommended for application to the inside face of coreless induction furnace coils in all melting and holding applications. MINRO-AL<sup>®</sup> CAST A44 is also suitable where grout and rings are cast as a monolith. This product offers the following features and benefits:

- > Forms solid container for proper support of working lining
- > Electrically insulative when applied between induction coils
- > Useful as an entirely new coil coating or for patching existing coatings

### Technical Data

#### Chemical Analysis

(Major Components)

Al <sub>2</sub> O <sub>3</sub>	95.0%
CaO	3.8%
SiO <sub>2</sub>	0.6%
Fe <sub>2</sub> O <sub>3</sub>	0.1%

Material Required .....	2.72 g/cm <sup>3</sup> (170 lb./ft. <sup>3</sup> )
Grain Size.....	1.5 mm (14 mesh) and finer
Practical Temperature Limit .....	1815°C (3300°F)
Installation Method .....	Cast or Trowel
Procedure(s) .....	CL-1, CL-2, CL-4, CL-37, CL-40

Packaged in 25 kg (55 lb.) multi-wall paper bags. Palletized 64 bags (1600 kg or 3520 lb.) per 42" x 42" pallet, protected with stretch wrap. Also available in bulk packaging. Storage beyond 24 months is not recommended. Store in a dry location to avoid moisture pickup.

### Hydraulic Set

Water Required:	10-11% Vibrated 9% Trowelled
Working Time:	Up to 45 minutes
Initial Set:	1-3 hours
Final Set:	3-6 hours

Allied Mineral Products, Inc. supplies an entire 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, aluminosilicates, calcium aluminate 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 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 for products that are installed wet. Hydrogen gas may be generated when product is exposed to water. Proper ventilation should be supplied to avoid gas buildup. Avoid use of enclosed forms. Ignition of hydrogen gas in an enclosed area can lead to personal injury. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

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