

PRODUCT BULLETIN

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**ALLIED
MINERAL**
PRODUCTS, INC.

V-CAST[®] 712A

General Information

V-CAST[®] 712A is an ultra low-moisture, ultra low-cement, fused alumina-based castable designed for iron contact applications. This product is recommended for use in tilters, iron runners and other casthouse applications. V-CAST 712A offers the following features and benefits:

- > Resistant to thermal shock
- > Outstanding hot strength
- > Excellent resistance to FeO and other corrosive oxides

Technical Data

Chemical Analysis

(Major Components)

Al ₂ O ₃	80.7%
SiC+C	11.8%
SiO ₂	4.2%
TiO ₂	1.7%

Material Required	3.21 g/cm ³ (203 lb./ft ³)
Grain Size	12.5 mm (1/2 inch and finer)
Maximum Practical Use Temperature	1650°C (3000°F)
Installation Method	Casting-Vibration
Procedures	CH-23, G-33

Packaged in 25 kg (55-lb.) multi-wall paper bags. Palletized 60 bags (1500 kg or 3300 lb.) per 42" x 42" pallet protected with stretch wrap. Also available in bulk bag packaging. Storage beyond 12 months is not recommended. Store in a dry location to avoid moisture pickup.

Casting and Sintering Data

Water Required:	3.8% – 4.3%
Working Time:	Up to 1 hour
Initial Hydraulic Set:	1 - 2 hours
Final Hydraulic Set:	3 - 5 hours
Form Removal:	18 hours after casting

This product is a two-component mix requiring cement addition on site prior to installation. For more details, contact your Allied Mineral Products representative.

Allied Mineral Products, Inc. supplies a complete line of monolithic refractories for the metals industry. For more information or an evaluation of your refractory or turnkey requirements, please contact your local Allied representative.

Warning: Contains aluminum oxide, silicon carbide, carbon black, 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. Carbon black is classified by the IARC as a potential carcinogen. 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. Hydrogen gas is 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. 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. For safest use and optimum performance, proper practices must be followed.

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