

PRODUCT BULLETIN

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**ALLIED
MINERAL**
PRODUCTS, INC.

DRI-VIBE[®] 493A

General Information

DRI-VIBE[®] 493A is a fused alumina-based dry vibratable refractory designed for multiples uses, including the lining of coreless induction furnaces melting magnesium-based alloys and aluminum master alloys. DRI-VIBE[®] 493A is also suitable for lining the uppercases of channel furnace uppercases for melting and pouring high temperature iron alloys, and for use as a top cap lining for coreless furnaces melting steel and other high temperature alloys. The closely controlled grain size distribution of this product results in high installed density and consistent performance. DRI-VIBE[®] 493A offers the following benefits and features:

- > Completely dry for fast turnaround
- > Exceptional non-wetting characteristics
- > Wear and corrosion resistant

Technical Data

Chemical Analysis*

Al ₂ O ₃	92.3%
MgO	4.9%
TiO ₂	1.7%
SiO ₂	0.4%
Fe ₂ O ₃	0.2%

*Proprietary ingredients not included.

Material Required	3.04 g/cm ³ (190 lbs/ft ³)
Grain Size	4 mm (6 mesh) and finer
Practical Temperature Limit (Ferrous Applications)	1820°C (3300°F)
Typical Application Temperature (Magnesium)	820°C (1500°F)
Minimum Use Temperature	550°C (1000°F)
Installation Method	Dry ram or vibrate
Procedure(s)	CL-1, CL-14, CL-60

Packaged in 25 kg (55 lb) multi-wall paper bags. Also available in bulk packaging. Storage beyond 12 months is not recommended. Store in a dry location to avoid moisture pickup.

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, magnesium 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. For safest use and optimum performance, proper practices must be followed.

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