

PRODUCT BULLETIN

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**ALLIED
MINERAL**
PRODUCTS, INC.

DRI-VIBE[®] 594A-FR

General Information

DRI-VIBE[®] 594A-FR is a patented andalusite-based, metallic fiber-containing dry vibratable refractory utilized for lining coreless induction furnaces melting aluminum and for channel furnace inductors melting or holding aluminum, zinc and zinc-based alloys. The addition of metallic fiber provides mechanical toughening and improved thermal cycling properties. This product offers the following benefits and features:

- > Completely dry
- > Resistant to cracking and thermal cycling
- > Installation around removable or consumable forms

Technical Data

Chemical Analysis

Al ₂ O ₃	59.9%
SiO ₂	38.0%
Fe ₂ O ₃	0.8%
TiO ₂	0.2%

Material Required 2.50 g/cm ³ (156 lbs. per cubic foot)
Grain Size 5mm (4mesh) and finer
Minimum Use Temperature 1050°C (1920°F)
Installation Method Dry ram or vibrate
Procedure(s) CL-1, CL-4, CL-5, CL-14, CL-17, CL-18, CL-53, CL-61

*Proprietary ingredients not included.

Packaged in 25 kg (55 lb.) multi-wall paper bags, 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.

Sintering Data

Initial Hold Temperature: 540°C (1000°F)
Sinter Rate (Maximum): 220°C (400°F)/Hour

Warning: Contains aluminum oxide, aluminosilicates, 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.

(DVN594)
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