

# PRODUCT BULLETIN

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**ALLIED  
MINERAL**  
PRODUCTS, INC.

## DRI-VIBE® 497A

### General Information

DRI-VIBE® 497A is an andalusite-based DRI-VIBE® refractory designed for lining coreless furnaces melting all grades of copper-based alloys. DRI-VIBE® 497A can be installed around a consumable or removable form. This product offers the following benefits and features:

- > Completely dry
- > Resistant to thermal shock operations
- > Under normal operations, maintains an unsintered back-up zone

### Technical Data

#### Chemical Analysis

(Major Components)

Al <sub>2</sub> O <sub>3</sub>	60.6%
SiO <sub>2</sub>	30.7%
SiC	6.8%
TiO <sub>2</sub>	0.3%
Fe <sub>2</sub> O <sub>3</sub>	0.7%

Material Required .....	2.62 g/cm <sup>3</sup> (164 lb/ft <sup>3</sup> )
Grain Size .....	5 mm (4 mesh) and finer
Maximum Use Temperature .....	1600°C (2900°F)
Installation Method .....	Dry Ram/Vibrate
Procedure(s) .....	CL-1, CL-4, CL-14, CL-17, CL-61

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.

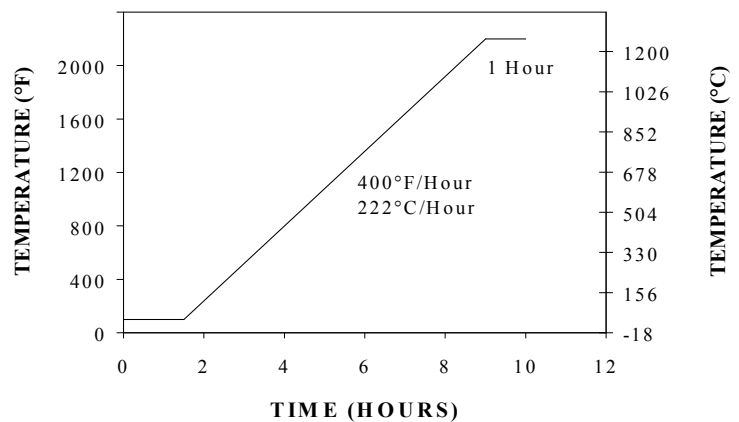
### Sintering Data

Final Hold Temperature: 1200°C (2200°F)  
Sinter Rate (Maximum): 220°C (400°F)/Hour

#### Heat Set

Initial: 760°C (1400°F)  
Form Type: Consumable or Removable

Sintering Schedule for Coreless Furnace  
(Consumable Form)



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

**Warning:** Contains aluminum oxide, silicon carbide, aluminum silicates, 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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