



PLIBRICO COMPANY LLC

1010 North Hooker Street
 Chicago, IL 60622
 Ph. : (312) 337-9000 Fax : (312) 337-9003
 Web : www.plibrico-usa.com

REFRACTORY PRODUCT DATA SHEET

Data date: 8/23/2006

SUPER DEMON AIR SET MORTAR - DRY

Product # 17003

Product Description:

An air setting, high temperature refractory mortar. Coverage: 350-400 lb / 160-180 kg per 1000 standard firebrick.

| | | | | |
|-----------------------------|------------------------|---------------------------------|------------------------|---------------------|
| Max. Service Limit:: | 2900 F / 1595 C | Density: | To Place | In Service |
| | | | 135 pcf | pcf |
| | | | 2162 kg/m ³ | 0 kg/m ³ |
| Packaging: | 50 lb / 22.7 kg Bag | | | |
| Required Water: | 3.6qt. / 3.4 l per bag | Min. Time Before Firing: | | |

Chemistry - % (calcined)

| | | |
|-------------------------------------|-------------------------------|------------------|
| Al ₂ O ₃ 43.1 | CaO 0.1 | SiC |
| SiO ₂ 50.8 | MgO 0.1 | ZrO ₂ |
| Fe ₂ O ₃ 1.2 | Alk. 3.4 | Other |
| TiO ₂ 1.3 | P ₂ O ₅ | |

Abrasion Loss

(ASTM C704)
 1500 F / 815 C
 cc

Thermal Conductivity

| | btu*in/hr*ft ² *F | w / m*C |
|-----------------|------------------------------|---------|
| 500 F / 260 C | | 0 |
| 1000 F / 540 C | | 0 |
| 1500 F / 815 C | | 0 |
| 2000 F / 1095 C | | 0 |

| Temperature | Linear Change - % | Cold MOR | Hot MOR | CCS |
|-------------|-------------------|------------------------|------------------------|------------------------|
| | ASTM C113 | psi / MPa ASTM C133 | psi / MPa ASTM C583 | psi / MPa ASTM C133 |
| | | 0 | | 0 |
| | | 0 | 0 | 0 |
| | | 0 | 0 | 0 |
| | | 0 | 0 | 0 |
| | | 0 | 0 | 0 |
| | | 0 | 0 | 0 |

Bake out: ASTM classification:

Note: Data should not be used for specification purposes. Product data is periodically updated to reflect product / raw material / process changes. Please consult with your Pibrico representative to insure you have the most current data.

All data are averaged results of laboratory ASTM tests on laboratory trowelled specimens. Reasonable variations can be expected.

Thermal conductivity will vary depending upon measurement method, installed density, and thermal treatment.

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