

Super Demon Air Set Dry

Product Number 17003

Date 2/10/2014

Product Description

A wet, air setting, super duty refractory mortar. Coverage 350-400lb (160-180 kg) per 1000 standard firebrick

Service limit - 3000°F 1,648 °C

Std. package 55 # / 25 kg Bag

Density to place pcf 0 kg/m³

Water range per std. package:

Density in service pcf 0 kg/m³

Casting 3.8 to 4.1 qts 3.6 to 3.9 l

Min time before firing

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

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

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	0	0
1000F / 540C	0	0
1500F / 815C	0	0
2000F / 1090C	0	0

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion

(reversible)

x 10⁻⁶ in/in F

0 x 10⁻⁶ m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR		CCS		Hot MOR	
		per ASTM C133 psi	MPa	per ASTM C133 psi	MPa	per ASTM C583 psi	MPa
		0.0		0			
		0.0		0		0.0	
		0.0		0		0.0	
		0.0		0		0.0	
		0.0		0		0.0	

Other Data

Bonding Strength ASTM C-198 230F- 600psi 2910F-1200psi

Heat Up Guide

ASTM Class

C 1655 Super Duty

Note:

All data are averaged results of ASTM tests (where applicable). Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product / raw material / process / testing changes. Please consult your Plico representative to make sure you have the most current data.

Plico Refractories are manufactured by Plibrico Company LLC, USA.