



Plibrico Company LLC

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Technical Data Sheet

Plibrico Super F AB

Product Number 10008

Date 1/1/2013

Product Description

A super duty class, air bonded plastic refractory.

Service Limit - 2900°F 1,593. °C

Std. package 55 # / 25 kg Carton

Density to place 150 pcf 2,403 kg/m³

Water range per std. package:

Density in service 138 pcf 2,211 kg/m³

Casting to qts 0.0 to 0.0 l

Mim Time before firing none

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	42.9	P ₂ O ₅	
SiO ₂	52.6	Alk.	0.9
Fe ₂ O ₃	1.2	MgO	
CaO	0.2	SiC	
TiO ₂	2.0	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² * F ⁰	w/m°C
500F / 260C	4.8	0.69
1000F / 540C	5.9	0.84
1500F / 815C	7.0	1
2000F / 1090C	8.2	1.18

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion

(reversible)

2.7 x 10⁻⁶ in/in F

4.8 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
230 F / 110 C	-0.6%	250	1.7	600	4		
1500 F / 815 C	-0.7%	300	2.1	650	4	500	3.4
2000 F / 1090C	-1.0%	500	3.4		0	800	5.5
2500 F / 1370 C	3.0%	700	4.8		0	250	1.7
2900 F / 1595 C	1.6%	1600	11.0		0		0.0

Other Data

Heat Up Guide

Schedule A

ASTM Class

C 673 Super Duty

Plastic Refractory

Note:

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 Plibrico representative to make sure you have the most current data.