



Plibrico Company, LLC
Plico Refractories

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Technical Data Sheet

Plico Gun Mix Fast Track 25

Product Number 13606

Date 2/10/2014

Product Description

An intermediate duty, high strength, refractory gun mix which may be dried out / heated on an accelerated schedule and minimum cure time.
 Note: Cure times less than 12 hrs will result in lower strengths (see other data).

Service limit - 2500°F 1371 °C

Std. package 55 # / 25 kg Bag

Density to place 120 pcf 1,922 kg/m³

Water range per std. package:

Density in service 120 pcf 1,922 kg/m³

Casting to qts 0 to 0 l

Min time before firing 6 hr

Pumping to qts 0.00 to 0 l

Chemistry % (calcined)

Al ₂ O ₃	37.1	P ₂ O ₅	
SiO ₂	54.9	Alk.	0.7
Fe ₂ O ₃	1.6	MgO	0.1
CaO	3.8	SiC	
TiO ₂	1.8	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	5.3	0.76
1000F / 540C	5.4	0.77
1500F / 815C	5.6	0.8
2000F / 1090C	6.0	0.86

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion
(reversible)

2.8 x 10⁻⁶ in/in F

5 x 10⁻⁶ m/m C

Temperature per <u>ASTM C113 / C865</u>	Linear Change per <u>ASTM C113 / C179</u>	Cold MOR		CCS		Hot MOR	
		per ASTM C133 <u>psi</u>	<u>MPa</u>	per ASTM C133 <u>psi</u>	<u>MPa</u>	per ASTM C583 <u>psi</u>	<u>MPa</u>
230 F / 110 C	-0.1%	700	4.8	4000	28		
1500 F / 815 C	-0.3%	600	4.1	3000	21	700	4.8
2000 F / 1090C	-0.5%	600	4.1		0	650	4.5
2500 F / 1370 C	0.5%	1500	10.3		0		0.0
			0.0		0		0.0

Other Data

8 hr Cure Data: 230F Cold MOR 600 psi, 1500F Cold MOR 500 psi

Heat Up Guide

Schedule FT

ASTM Class

C 401 Class C

Regular Castable

Note:

All data are averaged results of ASTM tests (where applicable) on laboratory gunned specimens. 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.