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Plico Refractories

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Technical Data Sheet

Plico Gun Mix Fast Track 30

Product Number 13607

Date 2/10/2014

Product Description

A super 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 8 hrs will result in lower strengths (see other data)

Service limit - 3000°F 1648 °C

Std. package 55 # / 25 kg Bag

Density to place 125 pcf 2,002 kg/m³

Water range per std. package:

Density in service 125 pcf 2,003 kg/m³

Casting to qts 0 to 0 l

Min time before firing 4 hr

Pumping to qts 0.00 to 0 l

Chemistry % (calcined)

Al ₂ O ₃	46.9	P ₂ O ₅	
SiO ₂	46.6	Alk.	0.6
Fe ₂ O ₃	0.9	MgO	0.1
CaO	3.1	SiC	
TiO ₂	1.8	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	6.7	0.96
1000F / 540C	6.8	0.97
1500F / 815C	6.9	0.99
2000F / 1090C	7.1	1.02

Abrasion Loss

per ASTM C 704
 after 1500 F

cc

Coefficient of Thermal Expansion
 (reversible)

3 x 10⁻⁶ in/in F
 5.4 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	-0.1%	950	6.5	4200	29		
1500 F / 815 C	-0.3%	700	4.8	3300	23	800	5.5
2000 F / 1090C	-0.4%	800	5.5		0	900	6.2
2500 F / 1370 C	1.3%	1300	9.0		0	200	1.4
2900 F / 1595 C	-0.8%	2000	13.8		0		0.0

Other Data

8 hr Cure Data: 230F Cold MOR 700 psi, 1500F Cold MOR 600 psi

Heat Up Guide

Schedule FT

ASTM Class

C 401 Class E

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.