

Plico Gun Mix CL 5-F KK

Product Number 13075

Date 2/10/2014

Product Description

A super duty, alkali resistant gun mix.

Service limit - 2800°F 1,537 °C

Density to place 130 pcf 2,082 kg/m³

Density in service 130 pcf 2,083 kg/m³

Min time before firing 24 hr

Std. package 55 # / 25 kg Bag

Water range per std. package:

Casting to qts 0.0 to 0.0 l

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	45.1	P ₂ O ₅	
SiO ₂	44.1	Alk.	0.6
Fe ₂ O ₃	0.8	MgO	0.2
CaO	2.6	SiC	4.9
TiO ₂	1.8	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	7.4	1.06
1000F / 540C	7.5	1.08
1500F / 815C	7.7	1.1
2000F / 1090C	8.2	1.18

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 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%	850	5.9	2500	17		
1500 F / 815 C	-0.3%	750	5.2	2200	15	1300	9.0
2000 F / 1090C	-0.4%	700	4.8		0	900	6.2
2500 F / 1370 C	1.0%	1700	11.7		0		0.0
			0.0		0		0.0

Other Data

Heat Up Guide

Schedule B

ASTM Class

C 401 Class D

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

Plico Refractories are manufactured by Plibrico Company LLC, USA.