

Plico Gun Mix CL 5-M KK

Product Number 13077

Date 2/10/2014

Product Description

A mullite based, alkali resistant gun mix.

Service limit - 2800°F 1,537 °C

Std. package 55 # / 25 kg Bag

Density to place 135 pcf 2,162 kg/m³

Water range per std. package:

Density in service 135 pcf 2,163 kg/m³

Casting to qts 0.0 to 0.0 l

Min time before firing 24 hr

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	55.3	P ₂ O ₅	
SiO ₂	34.4	Alk.	0.2
Fe ₂ O ₃	1.0	MgO	0.1
CaO	2.4	SiC	4.9
TiO ₂	1.7	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	8.2	1.18
1000F / 540C	8.3	1.19
1500F / 815C	8.5	1.22
2000F / 1090C	9.0	1.29

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion
(reversible)

3.1 x 10⁻⁶ in/in F

5.5 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%	875	6.0	2500	17		
1500 F / 815 C	-0.3%	725	5.0	2200	15	1325	9.1
2000 F / 1090C	-0.4%	700	4.8		0	950	6.5
2500 F / 1370 C	1.0%	1500	10.3		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.