

Plico Gun Mix 70 KK

Product Number 13023

Date 2/10/2014

Product Description

A 70% alumina, mullite based refractory gun mix.

Service limit - 3100°F 1,704 °C

Std. package 55 # / 25 kg Bag

Density to place 145 pcf 2,322 kg/m³

Water range per std. package:

Density in service 145 pcf 2,323 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	68.4	P ₂ O ₅	
SiO ₂	24.3	Alk.	0.3
Fe ₂ O ₃	1.3	MgO	0.2
CaO	3.7	SiC	
TiO ₂	1.8	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	7.7	1.1
1000F / 540C	8.0	1.15
1500F / 815C	8.1	1.16
2000F / 1090C	8.5	1.22

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion

(reversible)

3.8 x 10⁻⁶ in/in F

6.8 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%	950	6.5	3200	22		
1500 F / 815 C	-0.3%	600	4.1	3000	21	850	5.9
2000 F / 1090C	-0.2%	670	4.6		0	700	4.8
2500 F / 1370 C	0.1%	1300	9.0		0		0.0
			0.0		0		0.0

Other Data

Heat Up Guide

Schedule B

ASTM Class

C 401 Class F

Regular Castable

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

Plico Refractories are manufactured by Plibrico Company LLC, USA.