

Plico Gun Mix LW 22

Product Number 16022

Date 2/10/2014

Product Description

An intermediate temperature, insulating refractory gun mix.

Service limit - 2200°F 1,204 °C

Std. package 55 # / 25 kg Bag

Density to place 65 pcf 1,041 kg/m³

Water range per std. package:

Density in service 65 pcf 1,041 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	42.4	P ₂ O ₅	
SiO ₂	33.3	Alk.	1.9
Fe ₂ O ₃	2.7	MgO	0.4
CaO	17.8	SiC	
TiO ₂	1.4	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	1.8	0.25
1000F / 540C	1.9	0.27
1500F / 815C	2.1	0.3
2000F / 1090C	2.4	0.34

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	-0.2%	250	1.7	800	6		
1000 F / 540 C	-0.3%	150	1.0		0	175	1.2
1500 F / 815 C	-0.4%	200	1.4	450	3	200	1.4
2000 F / 1090 C	-1.0%	200	1.4		0	100	0.7
2200 F / 1205 C	-1.4%	150	1.0		0		0.0

Other Data

Heat Up Guide

Schedule B

ASTM Class

C 401 Class P

Insulating 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.