



Plibrico Company, LLC
Plico Refractories

1935 Techny Road - Unit 16
 Northbrook, IL 60062
 Phone: 312-337-9000 Fax: 312-337-9003
 www.plico-refractories.com.com

Technical Data Sheet

Plico Gun Mix HyREZIST 2700

Product Number 13601

Date 2/10/2014

Product Description

A high strength, abrasion resistant refractory gun mix.

Service limit - 2700°F 1,482 °C

Std. package 55 # / 25 kg Bag

Density to place 128 pcf 2,050 kg/m³

Water range per std. package:

Density in service 128 pcf 2,051 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	49.1	P ₂ O ₅	
SiO ₂	36.0	Alk.	0.5
Fe ₂ O ₃	1.2	MgO	0.2
CaO	11.0	SiC	
TiO ₂	2.1	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	7.4	1.06
1000F / 540C	7.7	1.1
1500F / 815C	8.2	1.18
2000F / 1090C	8.9	1.28

Abrasion Loss

per ASTM C 704
after 1500 F

9 cc

Coefficient of Thermal Expansion
(reversible)

3.1 x 10⁻⁶ in/in F

5.5 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%	1600	11.0	12500	86		
1500 F / 815 C	-0.3%	1200	8.3	9000	62	1500	10.3
2000 F / 1090C	-0.2%	1000	6.9		0	1300	9.0
2500 F / 1370 C	1.4%	1500	10.3		0	200	1.4
			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.