



Plibrico Company, LLC
Plico Refractories

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Technical Data Sheet

Plico Gun Mix Fast Track 80

Product Number 3253

Date 12/10/2018

Product Description

A high strength refractory gun mix which may be dried out / heated on an accelerated schedule and minimum cure time.

Service limit - 3100°F 1704 °C
Density to place 151 pcf 2,419 kg/m³
Density in service 151 pcf 2,419 kg/m³
Min time before firing 4 hr

Std. package 55 # / 25 kg Bag

Water range per std. package:

Casting to qts 0 to 0 /
Pumping to qts 0.00 to 0 /

Chemistry % (calcined)

Al ₂ O ₃	78.0	P ₂ O ₅	0.1
SiO ₂	15.8	Alk.	0.2
Fe ₂ O ₃	1.1	MgO	0.3
CaO	2.5	SiC	
TiO ₂	2.0	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	14.1	2.03
1000F / 540C	13.6	1.95
1500F / 815C	13.6	1.95
2000F / 1090C	14.1	2.03

Abrasion Loss

per ASTM C 704
 after 1500 F

7.3 cc

Coefficient of Thermal Expansion
 (reversible)

4.3 x 10⁻⁶ in/in F

7.7 x 10⁻⁶ m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR per ASTM C133		CCS per ASTM C133		Hot MOR per ASTM C583	
		psi	MPa	psi	MPa	psi	MPa
230 F / 110 C	0.0%	2078	14.33	11000	75.84		
1500 F / 815 C	-0.36%	1800	12.41	9000	62.05		

Other Data

Heat Up Guide
 Schedule FT

ASTM Class
 C 401 Class E

Low Cement 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 Plibrico representative to make sure you have the most current data.