

Plico Stix Injec-Tite 80

Product Number 17602

Date 2/10/2014

Product Description

A high alumina, heat setting refractory injection mix designed for hot or cold pressure injection repairs.

Service limit - 3100°F 1,704 °C

Std. package 55 # / 25 kg Bag

Density to place 140 pcf 2,242 kg/m³

Water range per std. package:

Density in service 140 pcf 2,243 kg/m³

Casting to qts 0.0 to 0.0 l

Min time before firing none

Pumping 2.8 to 3.5 qts 2.6 to 3.3 l

Chemistry % (calcined)

Al ₂ O ₃	74.2	P ₂ O ₅	
SiO ₂	19.9	Alk.	2.1
Fe ₂ O ₃	1.3	MgO	0.1
CaO	0.0	SiC	
TiO ₂	2.4	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	10.0	1.44
1000F / 540C	9.2	1.32
1500F / 815C	9.1	1.31
2000F / 1090C	9.4	1.35

Abrasion Loss

per ASTM C 704
after 1500 F

14 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		CCS		Hot MOR	
		per ASTM C133 psi	MPa	per ASTM C133 psi	MPa	per ASTM C583 psi	MPa
230 F / 110 C	-0.2%	1500	10.3	2200	15		
1500 F / 815 C	-0.4%	1200	8.3	3300	23		0.0
2000 F / 1090C	-0.3%	1500	10.3		0		0.0
2500 F / 1370 C	-1.1%	1600	11.0		0		0.0
			0.0		0		0.0

Other Data

Heat Up Guide

ASTM Class

Note:

All data are averaged results of ASTM tests (where applicable) on laboratory cast 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.