

Plico Stix 900F

Product Number 17505

Date 2/10/2014

Product Description

A high alumina phosphate bonded service mix/coating. May be applied by various methods and consistencies such as putty/tamping, brushing, trowling, spraying or injection by varying mixing water (see below). Non wetting to aluminum alloys.

Service limit - 3400°F 1,871 °C

Std. package 50# / 22.7 kg Pail

Density to place 155 pcf 2,483 kg/m³

Water range per std. package:

Density in service 155 pcf 2,483 kg/m³

Casting to qts 0.0 to 0.0 l

Min time before firing none

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	94.1	P ₂ O ₅	3.6
SiO ₂	1.7	Alk.	0.4
Fe ₂ O ₃	0.0	MgO	0.1
CaO	0.0	SiC	
TiO ₂	0.0	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C		0
1000F / 540C		0
1500F / 815C		0
2000F / 1090C		0

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion

(reversible)

5.1 x 10⁻⁶ in/in F

9.1 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		0.0		2000	14		
		0.0				0	0.0
		0.0				0	0.0
		0.0				0	0.0
		0.0				0	0.0

Other Data

Approximate mixing water for: Putty consistency - 10-12% Troweling consistency - 12-15%
Thick brush coat - 14-15% Thin brush coat/spray/injection - 16-22%

Heat Up Guide

ASTM Class

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.