

Plico Stix SR 68

Product Number 17704

Date 2/10/2014

Product Description

A 70% alumina, mullite based, phosphate bonded, plaster type refractory servicing mix. Non wetting to aluminum alloys.

Service limit - 3100°F 1,704 °C

Std. package 50 # / 22.7 kg Pail

Density to place 160 pcf 2,563 kg/m³

Water range per std. package:

Density in service 145 pcf 2,323 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	67.5	P ₂ O ₅	2.8
SiO ₂	27.2	Alk.	0.1
Fe ₂ O ₃	0.8	MgO	0.2
CaO	0.1	SiC	
TiO ₂	1.4	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)

3.7 x 10⁻⁶ in/in F

6.6 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		0.0		1250	9		
		0.0			0		0.0
		0.0			0		0.0
		0.0			0		0.0
		0.0			0		0.0

Other Data

Heat Up Guide

ASTM Class

C 673 70% Alumina

Note:

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

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.