

## **Technical Data Sheet**

## Plistix 900 F

Product # 17505

Available Internationally As:

Plico Stix 900 F

## **Product Description:**

A high alumina phosphate bonded service mix/coating. May be applied 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.

Standard Packaging: 50 # / 23 kg Pail

Shelf Life: 12 months

Service Limit:  $3400\,^{\circ}\text{F}$   $1870\,^{\circ}\text{C}$  Contact Limit:  $N/A\,^{\circ}\text{F}$   $N/A\,^{\circ}\text{C}$ 

Bulk Density - In Service: 155 pcf 2483 kg/m<sup>3</sup>

Bulk Density - To Place: 155 pcf 2483 kg/m<sup>3</sup>

Minimum Time To Firing: 0 hr

Water Range Per Standard Package		%	Quarts	Liters		
Vib Casting	min					
	max					
Casting	min					
	max					
Pumping	min					
	max					

<b>Abrasion Loss at</b>	fter 1500°F / <i>815</i> °C
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per ASTM C704

N/A cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	94.1	Alk	0.4	MgO	0.1
SiO <sub>2</sub>	1.7	TiO <sub>2</sub>		ZrO <sub>2</sub>	
CaO		P <sub>2</sub> O <sub>5</sub>	3.6	Other	
Fe <sub>2</sub> O <sub>3</sub>		SiC			

## Coefficient of Thermal Expansion (reversable):

5.1 x  $10^{-6}$  in/in/°F / 9.2 x  $10^{-6}$  mm/mm/°C

Thermal Conductivity	btu*in/hr*ft²*°F	W/m°C	
500°F / 260°C	17.1	2.46	
1000°F / <i>540</i> °C	15.4	2.22	
1500°F / <i>815</i> °C	14.4	2.07	
2000°F / 1090°C	14.5	2.09	

Temperature		Linear	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C	Change% per ASTM C113	psi	MPa	psi	MPa	psi	MPa
230	110		2000	14.0				

Other Data: Approximate mixing water additions: Thin brush coat/spray/injection: 16% - 22%, Thick brush coat: 14% - 15%, Troweling: 12% - 15%, Putty: 2% - 12%

Release Date: 1 Aug 2019

Heat Up Guide:

ASTM Class:

Refractory material should be stored in a cool, dry environment.

Note: All data are averaged results of ASTM tests (where applicable) on laboratory 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 and/or testing changes. Please consult your Plibrico representative to make sure you have the most current data.