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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 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 °F 1870 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 155 pcf 2483 kg/m³

Bulk Density - To Place: 155 pcf 2483 kg/m³

Minimum Time To Firing: 0 hr

Abrasion Loss after 1500°F / 815°C
per ASTM C704

N/A cc

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

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

Coefficient of Thermal Expansion (reversible):

5.1 x 10⁻⁶ in/in/°F / 9.2 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	17.1	2.46
1000°F / 540°C	15.4	2.22
1500°F / 815°C	14.4	2.07
2000°F / 1090°C	14.5	2.09

Temperature		Linear Change% per ASTM C113	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C		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%
 PREVENT MATERIAL FROM FREEZING: During cold weather this material must be shipped and stored in a warm place to prevent freezing. In warm weather, store in a cool dry place to prevent drying out.

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.