



# Plibrico Company, LLC

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# Technical Data Sheet

## Plistix SR-68

Product # 17704

Available Internationally As:

Plico Stix SR-68

### Product Description:

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

**Standard Packaging:** 50 # / 23 kg Pail

**Shelf Life:** 3 months

**Service Limit:** 3100 °F 1700 °C

**Contact Limit:** N/A °F N/A °C

**Bulk Density - In Service:** 145 pcf 2323 kg/m<sup>3</sup>

**Bulk Density - To Place:** 160 pcf 2563 kg/m<sup>3</sup>

**Minimum Time To Firing:** 0 hr

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

N/A cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	67.5	Alk	0.1	MgO	0.2
SiO <sub>2</sub>	27.2	TiO <sub>2</sub>	1.4	ZrO <sub>2</sub>	
CaO	0.1	P <sub>2</sub> O <sub>5</sub>	2.8	Other	
Fe <sub>2</sub> O <sub>3</sub>	0.8	SiC			

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

**Coefficient of Thermal Expansion (reversible):**

3.7 x 10<sup>-6</sup> in/in/°F / 6.7 x 10<sup>-6</sup> mm/mm/°C

Thermal Conductivity	btu*in/hr*ft <sup>2</sup> *°F	W/m°C
500°F / 260°C	8.1	1.17
1000°F / 540°C	8.3	1.20
1500°F / 815°C	9.1	1.31
2000°F / 1090°C	10.5	1.51

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		1250	9.0				

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide:

ASTM Class: C 673 70% Alumina

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.