



# Plibrico Company, LLC

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# Technical Data Sheet Plistix Injec-Tite 80

Product # 17602

Available Internationally As:

Plico Stix Injec-Tite 80

### Product Description:

A high alumina, heat setting refractory injection mix designed for hot or cold pressure injection repairs.

**Standard Packaging:** 55 # / 25 kg Bag

**Shelf Life:** 6 months

**Service Limit:** 3100 °F 1700 °C

**Contact Limit:** N/A °F N/A °C

**Bulk Density - In Service:** 140 pcf 2243 kg/m<sup>3</sup>

**Bulk Density - To Place:** 140 pcf 2243 kg/m<sup>3</sup>

**Minimum Time To Firing:** 0 hr

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

14 cc

Chemistry (calcined) %					
Al <sub>2</sub> O <sub>3</sub>	74.2	Alk	2.1	MgO	0.1
SiO <sub>2</sub>	19.9	TiO <sub>2</sub>	2.4	ZrO <sub>2</sub>	
CaO		P <sub>2</sub> O <sub>5</sub>		Other	
Fe <sub>2</sub> O <sub>3</sub>	1.3	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min	10.6	2.8	2.7
	max	13.2	3.5	3.3

### Coefficient of Thermal Expansion (reversible):

4.3 x 10<sup>-6</sup> in/in/°F / 7.7 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	10.0	1.44
1000°F / 540°C	9.2	1.32
1500°F / 815°C	9.1	1.31
2000°F / 1090°C	9.4	1.35

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	-0.2	2200	15.0	1500	10.3		
1500	820	-0.4	3300	23.0	1200	8.3		
2000	1090	-0.3			1500	10.3		
2500	1370	-1.1			1600	11.0		

Other Data: 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.