



## PLIBRICO COMPANY

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# REFRACTORY PRODUCT DATA SHEET

Data date: 1/6/00

## PLISTIX INJEC-TITE 80

Product # 17602

### Product Description:

A high alumina refractory injection mix designed for pressure injection.

<b>Max. Service Limit::</b>	3100 F / 1705 C	<b>Density:</b>	<b>To Place</b>	<b>In Service</b>
			140 pcf	140 pcf
			2242 kg/m <sup>3</sup>	2242 kg/m <sup>3</sup>
<b>Packaging:</b>	50 lb / 22.7 kg Bag			
<b>Required Water:</b>	3.25 qt. / 3.1 l per bag	<b>Min. Time Before Firing:</b>	None	

### Chemistry - % (calined)

Al <sub>2</sub> O <sub>3</sub>	74.2	CaO	0	SiC	
SiO <sub>2</sub>	20	MgO	0.1	ZrO <sub>2</sub>	
Fe <sub>2</sub> O <sub>3</sub>	1.3	Alk.	2	Other	
TiO <sub>2</sub>	2.4	P <sub>2</sub> O <sub>5</sub>			

### Abrasion Loss

(ASTM C704)  
1500 F / 815 C  
14 cc

### Thermal Conductivity

	btu*in/hr*ft <sup>2</sup> *F	w / m°C
500 F / 260 C	10	1.4
1000 F / 540 C	9.2	1.3
1500 F / 815 C	9.1	1.3
2000 F / 1095 C	9.4	1.4

Temperature	Linear Change - %	Cold MOR		Hot MOR		CCS	
	ASTM C113	psi	MPa	psi	MPa	psi	MPa
		ASTM C133		ASTM C583		ASTM C133	
230 F / 110 C	-0.2	1500	10.3			2100	14
1500 F / 815 C	-0.4	1200	8.3	1500	10.3	3300	23
2000 F / 1095 C	-0.3	1500	10.3	600	4.1		0
2500 F / 1370 C	-1.1	1600	11		0		0
			0		0		0
			0		0		0

Bake out:

ASTM classification:

Note: Data should not be used for specification purposes. Product data is periodically updated to reflect product / raw material / process changes. Please consult with your Pibrico representative to insure you have the most current data.

All data are averaged results of laboratory ASTM tests on laboratory cast specimens. Reasonable variations can be expected.

Thermal conductivity will vary depending upon measurement method, installed density, and thermal treatment.

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