



**Plibrico Company, LLC**  
**Plico Refractories**

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**Technical Data Sheet**

**Plico Gun Mix MW110**

Product Number 3256

Date 12/10/2018

**Product Description**

A medium weight, low iron insulating refractory gun mix with excellent physical properties.

**Service limit -** 2400°F 1316°C

**Std. package** 55 # / 25 kg Bag

**Density to place** 104 pcf 1,666 kg/m<sup>3</sup>

**Water range per std. package:**

**Density in service** 104 pcf 1,666 kg/m<sup>3</sup>

**Casting** to qts 0 to 0 l

**Min time before firing** 24 hr

**Pumping** to qts 0.00 to 0 l

**Chemistry % (calcined)**

Al <sub>2</sub> O <sub>3</sub>	53.1	P <sub>2</sub> O <sub>5</sub>	
SiO <sub>2</sub>	36.8	Alk.	0.8
Fe <sub>2</sub> O <sub>3</sub>	0.9	MgO	0.2
CaO	6.9	SiC	
TiO <sub>2</sub>	1.0	ZrO <sub>2</sub>	
		Other	

**Thermal Conductivity**

	btu*in/hr*ff <sup>2</sup> *°F	w/m°C
500F / 260C	4.5	0.65
1000F / 540C	4.6	0.66
1500F / 815C	4.9	0.71
2000F / 1090C	5.0	0.72

**Abrasion Loss**

per ASTM C 704  
after 1500 F

9 cc

**Coefficient of Thermal Expansion**  
(reversible)

2.9 x 10<sup>-6</sup> in/in F

5.2 x 10<sup>-6</sup> m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR		CCS		Hot MOR	
		per ASTM C133 psi	MPa	per ASTM C133 psi	MPa	per ASTM C583 psi	MPa
230 F / 110 C	0.0%	956	6.6	5555	38.3		
1500 F / 815 C	-0.4%	717	4.9	3925	27.1		

**Other Data**

**Heat Up Guide**  
Schedule B

**ASTM Class**  
C 401 Class S

Insulating Castable

**Note:**

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