



Plibrico Company, LLC
Plico Refractories

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Technical Data Sheet

Plico Castable Baffle Mix

Product Number 14011

Date 2/10/2014

Product Description

A low duty refractory castable.

Service limit - 1700°F 926 °C

Std. package 55 # / 25 kg Bag

Density to place 118 pcf 1,890 kg/m³

Water range per std. package:

Density in service 118 pcf 1,890 kg/m³

Casting 3.00 to 3.75 qts 2.83 to 3.54 l

Min time before firing 24 hr

Pumping to qts 0.00 to 0 l

Chemistry % (calcined)

Al ₂ O ₃	33.1	P ₂ O ₅	
SiO ₂	42.9	Alk.	0.5
Fe ₂ O ₃	1.5	MgO	0.9
CaO	19.3	SiC	
TiO ₂	1.7	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	5.6	0.8
1000F / 540C	5.7	0.82
1500F / 815C	5.9	0.84
2000F / 1090C		0

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion
(reversible)

3 x 10⁻⁶ in/in F
5.4 x 10⁻⁶ m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR per ASTM C133		CCS per ASTM C133		Hot MOR per ASTM C583	
		psi	MPa	psi	MPa	psi	MPa
230 F / 110 C	-0.1%	1000	6.9	7000	48		
1000 F / 540 C	-0.2%	500	3.4		0		0.0
1500 F / 815 C	-0.5%	250	1.7	900	6		0.0
			0.0		0		0.0
			0.0		0		0.0

Other Data

Heat Up Guide

ASTM Class

Note:

All data are averaged results of ASTM tests (where applicable) on laboratory cast 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.