

Plico Castable LW 24

Product Number 16007

Date 2/10/2014

Product Description

A moderate temperature insulating castable.

Service limit - 2450°F 1,343 °C

Std. package 55 # / 25 kg Bag

Density to place 80 pcf 1,281 kg/m³

Water range per std. package:

Density in service 80 pcf 1,282 kg/m³

Casting 6.4 to 7.2 qts 6.0 to 6.8 l

Min time before firing 24 hr

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	41.7	P ₂ O ₅	
SiO ₂	43.0	Alk.	1.2
Fe ₂ O ₃	2.6	MgO	0.3
CaO	9.3	SiC	
TiO ₂	1.9	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	2.6	0.37
1000F / 540C	2.7	0.38
1500F / 815C	2.9	0.41
2000F / 1090C	3.3	0.47

Abrasion Loss

per ASTM C 704
after 1500 F

cc

Coefficient of Thermal Expansion

(reversible)

2.8 x 10⁻⁶ in/in F

5 x 10⁻⁶ 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	-0.1%	250	1.7	900	6		
1000 F / 540 C	-0.4%	190	1.3		0	150	1.0
1500 F / 815 C	-0.6%	190	1.3	550	4	160	1.1
2000 F / 1090 C	-0.7%	150	1.0		0	150	1.0
2450 F / 1345 C	-1.4%	400	2.8		0		0.0

Other Data

Heat Up Guide

Schedule B

ASTM Class

C 401 Class Q

Insulating Castable

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 Plico representative to make sure you have the most current data.

Plico Refractories are manufactured by Plibrico Company LLC, USA.