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Plico Refractories

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Technical Data Sheet

Plico Castable LC 98 V KK

Product Number 14240

Date 2/12/2014

Product Description

An ultra high alumina, high purity, silica free, low cement refractory castable.

Service limit - 3400°F 1871 °C

Std. package 55 # / 25 kg Bag

Density to place 195 pcf 3,123 kg/m³

Water range per std. package:

Density in service 195 pcf 3,124 kg/m³

Casting 1.20 to 1.40 qts 1.13 to 1.32 l

Min time before firing 16 hr

Pumping to qts 0.00 to 0 l

Chemistry % (calcined)

Al ₂ O ₃	97.9	P ₂ O ₅	
SiO ₂	0.1	Alk.	0.4
Fe ₂ O ₃	0.0	MgO	0.0
CaO	1.6	SiC	
TiO ₂	0.0	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² * F	w/m°C
500F / 260C	22.0	3.16
1000F / 540C	21.0	3.02
1500F / 815C	21.0	3.02
2000F / 1090C	22.0	3.16

Abrasion Loss

per ASTM C 704
after 1500 F

9 cc

Coefficient of Thermal Expansion

(reversible)

5 x 10⁻⁶ in/in F

9 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	0.0%	2000	13.8	11000	76		
2000 F / 1090 C	-0.1%	1200	8.3		0	1200	8.3
2500 F / 1370 C	-0.2%	3000	20.7		0	2000	13.8
2700 F / 1480 C	0.5%	4000	27.6		0		0.0
3000 F / 1650 C	0.1%	3000	20.7		0		0.0

Other Data

Heat Up Guide

Schedule C or C-Linear

ASTM Class

C 401 Class G

Low Cement Castable

Note:

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