

Plico Castable ULC 95 V KK

Product Number 14605

Date 2/10/2014

Product Description

A high alumina, ultra low cement castable. Vibration cast only.

Service limit - 3200°F 1,760 °C

Std. package 55 # / 25 kg Bag

Density to place 190 pcf 3,043 kg/m³

Water range per std. package:

Density in service 190 pcf 3,044 kg/m³

Casting 1.1 to 1.4 qts 1.0 to 1.3 l

Min time before firing 16 hr

Pumping to qts 0.0 to 0.0 l

Chemistry % (calcined)

Al ₂ O ₃	93.8	P ₂ O ₅	
SiO ₂	5.4	Alk.	0.4
Fe ₂ O ₃	0.0	MgO	0.0
CaO	0.3	SiC	
TiO ₂	0.0	ZrO ₂	
		Other	

Thermal Conductivity

	btu*in/hr*ff ² *°F	w/m°C
500F / 260C	28.0	4.03
1000F / 540C	23.3	3.35
1500F / 815C	20.5	2.95
2000F / 1090C	20.8	2.99

Abrasion Loss

per ASTM C 704
after 1500 F

8 cc

Coefficient of Thermal Expansion
(reversible)

5.4 x 10⁻⁶ in/in F

9.7 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%	1700	11.7	6500	45		
1500 F / 815 C	0.1%	2200	15.2	9000	62	3000	20.7
2000 F / 1090C	-0.5%	3000	20.7		0	3800	26.2
2500 F / 1370 C	0.0%	4000	27.6		0	1700	11.7
3000 F / 1650 C	-0.4%	5000	34.5		0		0.0

Other Data

Heat Up Guide

Schedule C or C-Linear

ASTM Class

C 401 Class F

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

Plico Refractories are manufactured by Plibrico Company LLC, USA.