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Technical Data Sheet Plicast KL 3000-P KK

Product # 14246

Available Internationally As:

Plico Castable KL 3000-P KK

Product Description:

Plicast® KL 3000-P KK has a modified pumping blend allowing for a more rapid placement of the material. This product is specifically formulated to maintain its super duty, high strength physical characteristics while preventing pumping issues.

Standard Packaging: 55 # / 25 kg Bag

Shelf Life: 12 months

Service Limit: 3000 °F 1650 °C

Contact Limit: N/A °F N/A °C

Bulk Density - In Service: 130 pcf 2083 kg/m³

Bulk Density - To Place: 130 pcf 2083 kg/m³

Minimum Time To Firing: 24 hr

Abrasion Loss after 1500°F / 815°C
 per ASTM C704

N/A cc

Chemistry (calcined) %					
Al ₂ O ₃	52.6	Alk	0.7	MgO	0.1
SiO ₂	40.1	TiO ₂	1.8	ZrO ₂	
CaO	4.0	P ₂ O ₅		Other	
Fe ₂ O ₃	0.8	SiC			

Water Range Per Standard Package		%	Quarts	Liters
Vib Casting	min			
	max			
Casting	min			
	max			
Pumping	min	10.4	2.8	2.6
	max	11.7	3.1	2.9

Coefficient of Thermal Expansion (reversible):

3.1 x 10⁻⁶ in/in/°F / 5.6 x 10⁻⁶ mm/mm/°C

Thermal Conductivity	btu*in/hr*ft ² *°F	W/m°C
500°F / 260°C	6.5	0.94
1000°F / 540°C	6.6	0.95
1500°F / 815°C	6.8	0.98
2000°F / 1090°C	7.2	1.04

Temperature		Linear Change% per ASTM C113	CCS per ASTM C133		Cold MOR per ASTM C133		Hot MOR per ASTM C583	
°F	°C		psi	MPa	psi	MPa	psi	MPa
230	110	-0.1	4000	28.0	900	6.2		
1500	820	-0.3	3000	21.0	500	3.4	700	4.8
2000	1090	-0.4			550	3.8	400	2.8
2500	1370	-0.1			1200	8.3	250	1.7

Other Data:

Release Date: 1 Aug 2019

Heat Up Guide: Schedule B

ASTM Class: C 401 Class E
 Regular Castable

Refractory material should be stored in a cool, dry environment.

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