



# PLIBRICO COMPANY LLC

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# REFRACTORY PRODUCT DATA SHEET

Data date: 8/15/2006

## PLICAST KL 3000 KK

Product # 14025

### Product Description:

A superduty, high strength castable refractory.

<b>Max. Service Limit::</b>	3000 F / 1650 C	<b>Density:</b>	<b>To Place</b>	<b>In Service</b>
			130 pcf	130 pcf
			2082 kg/m <sup>3</sup>	2082 kg/m <sup>3</sup>
<b>Packaging:</b>	50 lb / 22.7 kg Bag			
<b>Required Water:</b>	2.6 qt. / 2.5 l per bag	<b>Min. Time Before Firing:</b>	24 Hrs.	

### Chemistry - % (calcined)

Al <sub>2</sub> O <sub>3</sub> 52.8	CaO 4	SiC
SiO <sub>2</sub> 39.9	MgO 0.1	ZrO <sub>2</sub>
Fe <sub>2</sub> O <sub>3</sub> 0.8	Alk. 0.7	Other
TiO <sub>2</sub> 1.8	P <sub>2</sub> O <sub>5</sub>	

### Abrasion Loss

(ASTM C704)  
 1500 F / 815 C  
 NA cc

### Thermal Conductivity

	btu*in/hr*ft <sup>2</sup> *F	w / m*C
500 F / 260 C	6.5	0.9
1000 F / 540 C	6.6	1
1500 F / 815 C	6.8	1
2000 F / 1095 C	7.2	1

Temperature	Linear Change - % ASTM C113	Cold MOR		Hot MOR		CCS	
		psi / MPa	ASTM C133	psi / MPa	ASTM C583	psi / MPa	ASTM C133
230 F / 110 C	-0.1	1050	7.2			5000	34
1000 F / 540 C	-0.2	750	5.2	600	4.1		0
1500 F / 815 C	-0.3	600	4.1	1000	6.9	4000	28
2000 F / 1095 C	-0.4	450	3.1	500	3.4		0
2500 F / 1370 C	0	1500	10.3	350	2.4		0
3000 F / 1650 C	0.7	2800	19.3		0		0

Bake out: Schedule B      ASTM classification: E      Regular Castable

Note: Data should not be used for specification purposes. Product data is periodically updated to reflect product / raw material / process changes. Please consult with your Plibrico representative to insure you have the most current data.

All data are averaged results of laboratory ASTM tests on laboratory cast specimens. Reasonable variations can be expected.

Thermal conductivity will vary depending upon measurement method, installed density, and thermal treatment.

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