



PLIBRICO COMPANY LLC

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REFRACTORY PRODUCT DATA SHEET

Data date: 8/15/2006

PLICAST LWI 20

Product # 16005

Product Description:

An intermediate temperature, insulating refractory castable.

Max. Service Limit::	2000 F / 1095 C	Density: To Place	In Service
		60 pcf 961 kg/m ³	60 pcf 961 kg/m ³
Packaging:	50 lb / 22.7 kg Bag		
Required Water:	10.5 qt. / 9.9 l per bag	Min. Time Before Firing: 24 Hrs.	

Chemistry - % (calcined)

Al ₂ O ₃ 41.8	CaO 19.4	SiC
SiO ₂ 29.9	MgO 0.5	ZrO ₂
Fe ₂ O ₃ 4.2	Alk. 1.7	Other
TiO ₂ 1.5	P ₂ O ₅	

Abrasion Loss

(ASTM C704)
 1500 F / 815 C
 NA cc

Thermal Conductivity

	btu*in/hr*ft ² *F	w / m*C
500 F / 260 C	1.7	0.2
1000 F / 540 C	1.9	0.3
1500 F / 815 C	2	0.3
2000 F / 1095 C		0

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	-0.3	250	1.7			1000	7
1000 F / 540 C	-0.7	175	1.2	90	0.6		0
1500 F / 815 C	-0.8	175	1.2	100	0.7	600	4
2000 F / 1095 C	-1.5	150	1		0		0
			0		0		0
			0		0		0

Bake out: Schedule B ASTM classification: O Insulating 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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