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REFRACTORY PRODUCT DATA SHEET

Data date: 8/15/2006

PLICAST LWI 28

Product # 16009

Product Description:
A high temperature, low iron, insulating refractory castable.

Max. Service Limit:: 2800 F / 1540 C

Density:

To Place	In Service
80 pcf	80 pcf
1281 kg/m^3	1281 kg/m^3

Packaging: 50 lb / 22.7 kg Bag

Required Water: 5.75 qt. / 5.4 l per bag

Min. Time Before Firing: 24 Hrs.

Chemistry - % (calcined)

Al_2O_3 54.1	CaO 5.8	SiC
SiO_2 36.9	MgO 0.1	ZrO_2
Fe_2O_3 0.7	Alk. 1.5	Other
TiO_2 0.8	P_2O_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	2.8	0.4
1000 F / 540 C	2.9	0.4
1500 F / 815 C	3.1	0.4
2000 F / 1095 C	3.5	0.5

Temperature	Linear Change - % ASTM C113	Cold MOR psi / MPa ASTM C133		Hot MOR psi / MPa ASTM C583		CCS psi / MPa ASTM C133	
230 F / 110 C	-0.2	350	2.4			1300	9
1000 F / 540 C	-0.3	250	1.7	200	1.4		0
1500 F / 815 C	-0.3	300	2.1	250	1.7	1100	8
2000 F / 1095 C	-0.5	300	2.1	200	1.4		0
2500 F / 1370 C	1.6	400	2.8	100	0.7		0
2800 F / 1540 C	0.6	600	4.1		0		0

Bake out: Schedule B ASTM classification: S 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 Pibrico 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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