



PLIBRICO COMPANY LLC

1010 North Hooker Street
 Chicago, IL 60622
 Ph. : (312) 337-9000 Fax : (312) 337-9003
 Web : www.plibrico-usa.com

REFRACTORY PRODUCT DATA SHEET

Data date: 8/9/2006

PLIBRICO 60 AB

Product # 10013

Product Description:

A 60% alumina, air bonded plastic refractory.

Max. Service Limit::	3100 F / 1705 C	Density: To Place	In Service
		154 pcf	142 pcf
		2466 kg/m ³	2274 kg/m ³
Packaging:	50 lb / 22.7 kg Box		
Required Water:	qt. / 0 l per bag	Min. Time Before Firing: None	

Chemistry - % (calcined)

Al ₂ O ₃ 60.3	CaO 0.1	SiC
SiO ₂ 35.4	MgO 0.2	ZrO ₂
Fe ₂ O ₃ 1.6	Alk. 0.4	Other
TiO ₂ 1.9	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	5.5	0.8
1000 F / 540 C	6.5	0.9
1500 F / 815 C	7.7	1.1
2000 F / 1095 C	9.1	1.3

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	-0.7	300	2.1			600	4
1000 F / 540 C	-0.8	250	1.7	300	2.1		0
1500 F / 815 C	-0.8	300	2.1	300	2.1	1500	10
2000 F / 1095 C	-1	500	3.4	550	3.8		0
2500 F / 1370 C	0.3	600	4.1	250	1.7		0
3000 F / 1650 C	1	1100	7.6		0		0

Bake out: Schedule A ASTM classification: 60% Alumina Plastic Refractory

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 pressed specimens. Reasonable variations can be expected.

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

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