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REFRACTORY PRODUCT DATA SHEET

Data date: 8/17/2006

Product # 16505

PLICAST AL-TUFF LWI 24

Product Description:

An moderate temperature, aluminum resistant, insulating refractory castable.

Recommended Aluminum Applications

Back up application where non-wetting insulation is required.

Max. Service Limit:: 2450 F / 1345 C

Aluminum Contact Limit: 1500 F / 815 C

Packaging: 50 lb / 22.7 kg Bag

Required Water: 6.25 qt. / 5.9 l per bag

Density: To Place

80 pcf

1281 kg/m³

In Service

80 pcf

1281 kg/m³

Min. Time Before Firing: 24 Hrs.

Chemistry - % (calined)

Al ₂ O ₃	42	CaO	9.5	SiC
SiO ₂	42.6	MgO	0.3	ZrO ₂
Fe ₂ O ₃	2.6	Alk.	1.2	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	2.6	0.4
1000 F / 540 C	2.7	0.4
1500 F / 815 C	2.9	0.4
2000 F / 1095 C	3.3	0.5

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	-0.2	225	1.6			900	6
1000 F / 540 C	-0.4	175	1.2	150	1		0
1500 F / 815 C	-0.6	175	1.2	160	1.1	600	4
		0		0			0
		0		0			0
		0		0			0

Bake out: Schedule B ASTM classification: Q 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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