



PLIBRICO COMPANY LLC

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REFRACTORY PRODUCT DATA SHEET

Data date: 8/17/2006

PLICAST HYMOR 3100 SPECIAL KK

Product # 2428

Product Description:
A 60% alumina, mullite based, low cement refractory castable.

Max. Service Limit: 3100 F / 1705 C **Density:** To Place 155 pcf / 2482 kg/m³ **In Service** 155 pcf / 2482 kg/m³

Packaging: 50 lb / 22.7 kg Bag

Required Water: 1.5 qt. / 1.4 l per bag **Min. Time Before Firing:** 24 Hrs.

Chemistry - % (calcined)	
Al ₂ O ₃	61
CaO	1.6
MgO	0.1
Fe ₂ O ₃	0.9
TiO ₂	1.6
SiC	
ZrO ₂	
Other	
P ₂ O ₅	

Abrasion Loss (ASTM C704)	
1500 F / 815 C	6 cc

Thermal Conductivity	
btu*in/hr*ft ² *F	w / m°C
500 F / 260 C	10.7
1000 F / 540 C	11.3
1500 F / 815 C	12
2000 F / 1095 C	12.6

Temperature	Linear Change - % ASTM C113	Cold MOR		Hot MOR		CCS	
		psi / MPa ASTM C133	psi / MPa ASTM C583	psi / MPa ASTM C583	psi / MPa ASTM C133		
230 F / 110 C	0	2000	13.8			12000	83
1000 F / 540 C	-0.2	2000	13.8	3000	20.7	0	0
1500 F / 815 C	-0.3	2700	18.6	3800	26.2	12000	83
2000 F / 1095 C	-0.4	3100	21.4	4200	29	0	0
2500 F / 1370 C	0.6	3800	26.2	1000	6.9	0	0
3000 F / 1650 C	0.4	3500	24.1	0	0	0	0

Bake out: Schedule C ASTM classification: F Low-Cement 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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