Plico Refractories
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Technical Data Sheet

Exo-Set UNO B G

Product Number 17438 Date 2/10/2014

Product Description
An one component, rapid hardening, chemically bonded, bauxite based refractory castable. Exhibits excellent bonding adherence to old refractory. May be gunned hot or cold. Do not predampen. Non wetting to aluminum.

Typical Applications
As a primary lining or for maintenance repairs of metal contact areas in aluminum melting and holding furnaces, ladles, troughs and launders.

Service limit - 2500°F *1371 °C*
Density to place 150 pcf *2,403 kg/m3*
Density in service 150 pcf *2,403 kg/m3*
Min time before firing none

Std. package 55 # / 25 kg Bag
Water range per std. package:

Casting	to	qts	*0.0 to*	*0.0 l*
Pumping	to	qts	*0.0 to*	*0.0 l*

Chemistry % (calcined)

Al_2O_3	74.7	P_2O_5	4.9
SiO_2	9.5	Other	11.4

Thermal Conductivity

	btu*in/hr*ft² *°F	*w/m°C*
500F / 260C	9.5	*1.36*
1000F / 540C	9.7	*1.39*
1500F / 815C	10.5	*1.51*
2000F / 1090C	111.8	*16.09*

Abrasion Loss
per ASTM C 704
after 1500 F
12 cc

Coefficient of Thermal Expansion
(reversable)
3.6 x 10^-6 in/in F
6.4 x 10^-6 m/m C

Temperature per ASTM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR per ASTM C133 psi	Cold MOR per ASTM C133 *MPa*	CCS per ASTM C133 psi	CCS per ASTM C133 *MPa*	Hot MOR per ASTM C583 psi	Hot MOR per ASTM C583 *MPa*
230 F / 110 C	-0.1%	900	*6.2*	3000	*21*		
1000 F / 540 C	-0.2%	800	*5.5*		*0*	1100	*7.6*
1500 F / 815 C	-0.3%	1050	*7.2*	2000	*14*	1200	*8.3*
1800 F / 980 C	-0.5%	1350	*9.3*		*0*	800	*5.5*
			0.0		*0*		*0.0*

Other Data

Heat Up Guide
Schedule D

ASTM Class

Note:
All data are averaged results of ASTM tests (where applicable) on laboratory gunned specimens.
Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product / raw material / process / testing changes. Please consult your Plico representative to make sure you have the most current data.

Plico Refractories are manufactured by Plibrico Company LLC, USA.