

## **Technical Data Sheet**

# **Exo-Set UNO M G**

Product Number 17437

2/10/2014 Date

#### **Product Description**

An one component, rapid hardening, chemically bonded, mullite 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.

ensity in service	142 pcf 2,2	75 kg/m	3 <sub>1</sub> 3	Casting	to	qts	0.0 to	0.0
in time before fir	ing none			Pumping	to	qts	0.0 to	0.
Thermal Conductivity   btu*in/hr*ft² * ۴ w/m²C						Abrasion Loss per ASTM C 704		
Chemistry % (calcined)			500F / 260C	8.0	1.15	after 1500 F		
Al <sub>2</sub> O <sub>3</sub> 58.7	<b>P<sub>2</sub>O<sub>5</sub></b> 4.8		1000F / 540C	8.2	1.18	12 cc	12 cc	;
<b>SiO</b> <sub>2</sub> 26.2	Other 10.7		1500F / 815C	9.0	1.29	Coefficient of Thermal Expansion (reversable) 3.6 x 10^-6 in/in F 6.4 x 10^-6 m/m C		
		:	2000F / 1090C	10.3	1.48			
Temperature per STM C113 / C865	Linear Change per ASTM C113 / C179	Cold MOR per ASTM C133 psi MPa		CCS per ASTM C133 psi <u>MPa</u>		Hot MOR per ASTM C583 <u>psi</u> <u>MPa</u>		583
230 F / 110 C	0.0%	1100	7.6	3000	21			
1000 F / 540 C	-0.2%	800	5.5		0	110	00	7.6
1500 F / 815 C	-0.3%	1000	6.9	2000	14	130	00	9.0
1800 F / 980 C	-0.4%	1300	9.0		0	90	0	6.2
			0.0		0			0.0
Other Data								

### Schedule D

#### 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.