



**RENO REFRACTORIES, INC**

**RENO PLASTIC 85 P**

**TECHNICAL DATA SHEET**

**RENO PLASTIC 85 P** is a high purity, extra high alumina, and chemically bonded plastic refractory.

**FEATURES:**

- Long shelf life
- User friendly
- Available in soft, standard and firm consistency
- Volume stable
- Excellent abrasion resistance
- Naturally non-wetting to aluminum
- Applications include burners, incinerators, aluminum furnaces, iron/steel contact such as ladles, and reheat furnaces

**SERVICE TEMPERATURE:** 3100°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 178 lbs./cu. ft.

**TYPICAL CHEMICAL ANALYSIS (Calcined Basis)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	CaO	P <sub>2</sub> O <sub>5</sub>	Alkalies
84 – 85	8 – 9	0.8	2.1	0.2	0.2	3.3	0.2

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	“K” Factor Btu-in/hr-ft <sup>2</sup> -°F
250	925	3,580	-0.5	18.20
1500	2,178	6,720	-0.2	14.05
2000	1,950	10,350	-0.2	13.10
2500	2,100	10,437	-0.1	14.66
2800	2,220	11,845	0.0	
3000	1,920	10,415	-1.2	

**ABRASION LOSS after 1500°F:** <3 cc  
**ABRASION LOSS after 2500°F:** <4.5  
**PACKAGING:** 55 lb. Boxes, 60 per Pallet (3300 lbs.)

233600 – 6/23/16

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.