



RENO REFRACTORIES, INC

RENO PUMP 105 LW

TECHNICAL DATA SHEET

**RENO PUMP 105 LW** is a high alumina castable that can be classified as semi-insulating. This product is stronger than many dense conventional castables. With its low iron content, it can withstand the effects of reducing atmospheres. Excellent thermal shock resistance and insulating value.

**SERVICE TEMPERATURE:** 2600°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 105 lbs./cu. ft.  
**CASTING WATER:** 8 - 10%

**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
51-53	38 – 42	0.9	1.1	0.3	5-6	0.2	0.6

**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	1,100 – 1,650	3,200 – 3,920	+0.2	7.5
1000	1,300 – 1,620	3,000 – 4,200	+0.4	8.0
1500	1,260 – 1,400	3,600 – 4,150	-0.4	8.4
2000	1,270 – 1,600	4,650 – 6,910	-0.3	8.9
2500	1,700 – 2,190	5,100 – 8,100	-0.7	---

**ABRASION LOSS AFTER 1500F:** <12 cc (9% water)  
**ABRASION LOSS AFTER 2000F:** <10 cc

**Coefficient of Thermal Expansion:** 3.08x10<sup>-6</sup> in/in/°F

**PACKAGING:** 50 lb. Bags, 40 per Pallet (2,000 lbs.)

139900 – 1/10/18

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.

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