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**TECHNICAL DATA SHEET**

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**RENO PUMP 50 LC** is a 50% alumina, low cement castable developed to be cast, pumped or shot-creted into place.

**RENO PUMP 50 LC** has low iron content volume stability, strength and abrasion resistance and is ideal for a variety of applications.

**SERVICE TEMPERATURE:** 3000°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 143 lbs. /cu. ft.  
**PUMPING WATER:** 6.5-7.5%

**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
50	46	<0.9	<1.5	<0.1	2.0

**TYPICAL PHYSICAL PROPERTIES** (pumping)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	"K" Factor Btu-in/hr-ft <sup>2</sup> °F
250	1,500 – 2,000	9,500 – 11,000	---	9.65
1500	1,200 - 1,400	11,000 – 12,500	-0.6	9.03
2000	1,600 – 1,850	7,500 – 8,500	0.4	8.80
2500	1,400 – 2,100	6,700 – 9,000	-0.1	8.95

**Coefficient of Thermal Expansion:** 2.39 x10<sup>-6</sup> in/in/°F

**HOT MOR @2500°F:** 429 psi  
**HOT MOR @2700°F:** 266 psi

**POROSITY, 1500°F:** 14%

**ABRASION LOSS AFTER 1500°F (ASTM C 704):** Cast: <7cc , Pump: <9cc  
**ABRASION LOSS AFTER 2000°F (ASTM C 704):** Cast: <6cc , Pump: <9cc

**PACKAGING:** 2000 lb. Bags, 2 per Pallet (4,000 lbs.)

143000 – 4/27/15

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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.