



TECHNICAL DATA SHEET

RENO PUMP 48 LC is a 48% alumina, low cement castable developed to be cast, pumped or shot-creted into place. This product has superior strength and abrasion resistance as compared to conventional castables of the same classification.

RENO PUMP 48 LC has low iron content volume stability, strength and abrasion resistance and is ideal for a variety of applications which include annealing hearths, lightweight aggregate kilns, kiln cars, ash hoppers, incinerators, and cement kiln preheaters.

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|--|------------------------|
| SERVICE TEMPERATURE: | 3000°F |
| MATERIAL REQUIRED FOR ESTIMATING: | 138 - 142 lbs./cu. ft. |
| CASTING WATER: | 6.7-7.5% |

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

| | | | | | |
|--------------------------------|------------------|--------------------------------|------------------|------|-----|
| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | TiO ₂ | MgO | CaO |
| 48 | 48 | <0.9 | <1.5 | <0.1 | 1.5 |

TYPICAL PHYSICAL PROPERTIES

| Prefired to °F | Modulus of Rupture, psi | Cold Crushing Strength, psi | K factor BTU/hr/ft ² | Linear Change % |
|----------------|-------------------------|-----------------------------|---------------------------------|-----------------|
| 250 | 1,400 – 1,600 | 6,500 – 7,500 | 5.60 | --- |
| 1500 | 1,750 – 1,950 | 8,200 – 9,000 | 6.30 | -0.2 |
| 2500 | 2,100 – 2,950 | 15,400 – 17,000 | 6.93 | +0.4 |

| | |
|--|------|
| CAST ABRASION LOSS AFTER 1500°F (ASTM C 704): | <6cc |
| CAST ABRASION LOSS AFTER 1800°F (ASTM C 704): | <6cc |

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 LBS.)
1500 lb. Bags, 2 per Pallet (3,000 lbs.)

142700 – 4/15/14

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.