



RENO REFRACTORIES, INC

RENO CAST 35 LC

TECHNICAL DATA SHEET

RENO CAST 35 LC is a thermal shock resistant low cement castable refractory with good strengths. It is low in iron for reducing conditions and low thermal conductivity to make it semi-insulating.

RENO CAST 35 LC is recommended for use in kiln furniture, preheater lids or other applications where excellent thermal shock resistance is required. It withstands mechanical abuse better than fiber insulation.

SERVICE TEMPERATURE: 2800°F  
MATERIAL REQUIRED FOR ESTIMATING: 125 lbs./cu. ft.  
WATER ADDITION: 8 – 9 %

TYPICAL CHEMICAL ANALYSIS (includes binder) (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> | Alkalkies |
|--------------------------------|------------------|--------------------------------|------------------|-----|-----|-------------------------------|-----------|
| 37 – 38                        | 57 – 58          | 0.7                            | <2               | 0.1 | 2.5 | 0.2                           | 0.3       |

TYPICAL PHYSICAL PROPERTIES (Gunned)

| Prefired to °F | Modulus of Rupture, psi | Cold Crushing Strength, psi | Linear Change % | Porosity % | “K” Factor Btu-in/hr-ft <sup>2</sup> °F |
|----------------|-------------------------|-----------------------------|-----------------|------------|---|
| 250            | 765                     | 5010                        | Nil             | 11.9       | 8.0                                     |
| 1,500          | 530                     | 5725                        | -0.9            | 18.1       | 7.3                                     |
| 2,000          | 505                     | 4750                        | -0.3            | 18.5       | 7.2                                     |
| 2,500          | 420                     | 5920                        | -0.6            | 21.8       | 7.1                                     |
| 2,800          | 400                     | 7380                        | -1.8            | 40.9       | 7.0                                     |

Thermal Shock % Retained (at 2000°F): 92

PACKAGING: 50 lb. Bags, 72 per Pallet (3960 lbs.)

23-004 LD2

140000-4/6/23

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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