



RENO REFRACTORIES, INC

RENO CAST 70 CLC

TECHNICAL DATA SHEET

RENO CAST 70 CLC is a high alumina, low cement, low moisture, Mullite based castable that provides high strength and good thermal shock resistance.

RENO CAST 70 CLC is ideal for metal and slag contact applications.

SERVICE TEMPERATURE: 3100°F  
MATERIAL REQUIRED FOR ESTIMATING: 162 lbs./cu. ft.  
CASTING WATER: approx. 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	Alkalies	Other
68.6	25.6	1.0	2.1	0.1	2.0	0.2	0.4

TYPICAL PHYSICAL PROPERTIES

Pre-fired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,700 – 1,950	8,200 – 11,200	-0.1
1500	1,500 – 1,823	10,000 – 13,900	-0.2
2000	1,500 – 1,875	9,500 – 13,500	-0.2
2500	1,520 – 1,930	10,500 – 14,300	1.5
2700	1,650 – 1,860	8,700 – 12,100	2.6
3000	1,470 – 1,740	11,900 – 13,600	1.9

Coefficient of Thermal Expansion: 3.11 x 10<sup>-6</sup>

HOT MOR (ASTM C583) @2500F: 591 psi  
HOT MOR (ASTM C583) @2700F: 262 psi

ABRASION LOSS AFTER 1500°F: <8 cc  
ABRASION LOSS AFTER 2500°F: <7 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.)

153900 – 4/30/15

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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