



RENO REFRACTORIES, INC

REGEN CAST LI

TECHNICAL DATA SHEET

REGEN CAST LI 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: 112 lbs./cu. ft.
CASTING WATER: 12.25 – 12.75%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	P ₂ O ₅	Alkalies
45 – 51	38 – 44	0.9	1.1	0.3	7 – 8	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 ² °F
250	625 - 785	3,200 – 4,350	-0.4	7.5
1000	920 – 1,030	4,350 – 5,175	-0.4	8.0
1500	1,300 – 1,900	3,670 – 5,500	-0.4	8.4
2000	1,520 – 1,940	3,575 – 5,850	-0.9	8.9
2500	810 – 1,090	4,900 – 5,890	-0.7	---

ABRASION LOSS AFTER 1500F: <10.0 cc (8% water)

Coefficient of Thermal Expansion: 3.08x10⁻⁶ in/in/°F

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

139000 – 1/10/19

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.