



RENO REFRACTORIES, INC

LADLE CAST AL-100

TECHNICAL DATA SHEET

LADLE CAST AL-100 is a high alumina castable for aluminum contact that can be classified as semi-insulating. This product is stronger than many medium density castables.

LADLE CAST AL-100 is recommended for OTR ladle bottoms and aluminum transfer troughs.

SERVICE TEMPERATURE: 2800°F  
MATERIAL REQUIRED FOR ESTIMATING: 100 lbs/cf  
WATER ADDITION: 13%

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
50 – 54	35 – 39	0.9	0.9	0.3	3 – 4	0.3	5.4

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	K Factor Btu-in/hr
250	800	3,000	Nil	3.5
1,000	400	2,400	0.1	3.9
1,500	530	2,600	0.0	4.3

HOT MOR @1500°F (Orton): 273 psi

PACKAGING: 50 lb. Bags, 40 per Pallet (2000 lbs.)

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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.

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