



RENO REFRACTORIES, INC

RENO IRON CAST

TECHNICAL DATA SHEET

RENO IRON CAST is a high alumina-silicon carbide ultra low cement castable. It has high density, low porosity, high strength and excellent resistance to iron, slag, thermal shock and oxidation.

RENO IRON CAST is recommended for tilters, holding furnaces, troughs, torpedo and transfer ladles, as well as skimmer blocks. Can be cast, pumped or shotcreted.

SERVICE TEMPERATURE: 3000°F (Reducing)
MATERIAL REQUIRED FOR ESTIMATING: 180 lbs/cf
WATER ADDITION: 4.5 – 5.5%
STORAGE LIFE: 1 year

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	TiO ₂	CaO	SIC + C	Other
79	9	2	1	8.8	0.5

TYPICAL PHYSICAL PROPERTIES (Reducing conditions above 250°F)

Pre-fired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2,900	10,990	Nil
1,500	2,660	13,000	-0.1
2,500	2,422	12,650	-0.3
2,700	1,022	6,170	+0.7
2,850	1,155	6,839	+1.1

HOT MOR @2500°F (ASTM C583 -- ORTON): 1,276 psi
HOT MOR @2700°F (ASTM C583 – ORTON): 693 psi

PACKAGING: 1500 lb. bulk bags, 2 per pallet (3,000 lbs)
3000 lb. bulk bags, 1 per pallet (3,000 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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