



TECHNICAL DATA SHEET

RENO NC BlakCast incorporates Mullite aggregates, high alumina fines, carbon and a Nano Technology binding system to create a product that resists metal penetration and slag attack. It has very good hot strengths as well as thermal shock resistance.

RENO NC BlakCast is designed to be the hot face material, for use in torpedo, desulfurization ladles or any other iron contact application.

RENO NC BlakCast is more insulating than cement bonded products with similar chemistry.

SERVICE TEMPERATURE:	3000°F
MATERIAL REQUIRED FOR ESTIMATING:	160 lbs/cf
BINDER ADDITION: (CAST)	10– 11% by weight
(PUMP)	11– 12%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Other
67	29	<0.9	<1	2-3

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,020	3,730	Nil
1,500	1,260	4,806	+0.1
2,500	2,222	6,806	+0.3

POROSITY @ 1500°F:	17%
HOT MOR (ASTM C583) @ 2700°F:	624 psi (Orton)
ABRASION LOSS After 2000°F:	<7 cc
ABRASION LOSS After 2500°F:	<5 cc

THERMAL SHOCK After 2200°F:	<17%
MOR Loss(ASTM C-1171)	

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