RENO REFRACTORIES, INC

RENO JET CAST NC 85

TECHNICAL DATA SHEET

RENO Jet Cast NC 85 is a high alumina, no cement material with excellent resistance to alkalis, abrasion, molten metals and thermal shock. Ease of installation, dry-out, high hot strength and high thermal shock resistance is some of its unique properties. It is designed to be easily installed by casting or pumping.

RENO Jet Cast NC 85 is recommended for applications where abrasion, chemical attack or thermal shock resistance are issues. Application areas include cement, lime, incineration, boilers, iron, steel and aluminum.

SERVICE TEMPERATURE:	3100°F
MATERIAL REQUIRED FOR ESTIMATING:	179 pcf
STORAGE LIFE:	6 months
BINDER ADDITION (Pumpable):	10 – 12% by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al_2O_3	SiO_2	Fe_2O_3	TiO_2
85 - 88	7 - 9	<1.1	2.5 – 3.0

TYPICAL PHYSICAL PROPERTIES (Jet Cast)

Prefired to ºF	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,000 – 1,250	4,000 – 5,000	Nil
1,500	1,700 – 2,325	7,800 – 9,000	-0.1
2,000	2,400 – 2,720	9,500 – 10,500	-0.3
2,500	2,650 – 2,825	10,500 – 11,500	-0.3
2,800	3,080 – 3,370	>15,000	-0.1

APPARENT POROSITY After 2800ºF:	16%
HOT MOR @ 1500ºF:	2,562 psi
HOT MOR @ 2500ºF:	1,040 psi

ABRASION LOSS After 1500ºF:	<6 cc
ABRASION LOSS After 1800ºF:	<5 cc
ABRASION LOSS After 2000ºF:	<4 cc
ABRASION LOSS After 2500ºF:	<4 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1,500 lb. Bags, 2 per Pallet (3,000 lbs.)

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