RENO REFRACTORIES, INC

JET CAST NC 6059 AL

TECHNICAL DATA SHEET

JET CAST NC 6059 AL is a high alumina, silicon carbide no cement castable. **JET CAST NC 6059 AL** resists aluminum penetration and alkali attack. Other features include, low porosity, high strengths and excellent resistance to oxide build-up, thermal shock and abrasion.

JET CAST NC 6059 AL is recommended for molten aluminum contact and high wear areas such as ramps and belly bands. An excellent choice for special shapes for aluminum applications. This material can be installed by vibration casting, pumping or shotcreting.

SERVICE TEMPERATURE: 2500°F
MATERIAL REQUIRED FOR ESTIMATING: 172 lbs./ft³
STORAGE LIFE: 1 year
BINDER ADDITION: 10 - 11%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al_2O_3	SiO_2	TiO_2	CaO	SiC
78	8 – 9	2 – 3	0.2	7

TYPICAL PHYSICAL PROPERTIES (Shotcreted)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss cc	Thermal Conductivity
250	825 – 1,125	8,290 – 10,135	Nil	--	15.3
1500	1,500 – 1,744	10,400 – 12,700	0.0	4.9	18.5
2500	1,275 – 1,950	>15,000	-0.7	2.3	19.7

HOT MOR @ 1500°F (ASTM C583): 2,350 psi

POROSITY AFTER 2500°F: 11%

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1500 lb. bulk bags, 2 per pallet (3,000 lbs.)
2000 lb. bulk bags, 2 per pallet (4,000 lbs.)

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Reno Refractories, Inc. PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366