



TECHNICAL DATA SHEET

JET CAST NC 6059 is a high alumina-silicon carbide no cement castable. **JET CAST NC 6059** has high density, low porosity, high strengths and excellent resistance to metals, alkali, slags, thermal shock, abrasion and oxidation.

JET CAST NC 6059 is recommended for roofs, bullnoses, risers, and hoods in Cement, Lime and Minerals Processing plants. Also excellent material in the iron and steel industries. This material can be installed by vibration casting, pumping or shotcreting.

SERVICE TEMPERATURE: 3000°F (Reducing)
MATERIAL REQUIRED FOR ESTIMATING: 172 lbs./cu. ft.
STORAGE LIFE: 1 year
BINDER ADDITION: 10 - 11%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	TiO ₂	CaO	SiC
81	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
2800	1,300 – 1,620	5,500 - 7,250	+1.6	2.7	18.9

HOT MOR @ 2500°F (ASTM C583 –12 hour soak-- ORTON): 1,026 psi
HOT MOR @ 2700°F (ASTM C583 -- 5 hour soak – ORTON): 1,048 psi

POROSITY AFTER 2500°F: 15.8%

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)

187100 – 5/01/18

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.