



RENO REFRACTORIES, INC

RENO JET CAST NC 6044

TECHNICAL DATA SHEET

**RENO JET CAST NC 6044** is a high alumina, silicon-carbide, no-cement material designed to be installed by shot-creting or pumping. This material has high density, low porosity, high hot strength and rapid dry-out characteristics which makes it an excellent material for use in iron foundries and steel mills with erosive conditions.

**RENO JET CAST NC 6044** has excellent resistance to iron, slag, thermal shock and oxidation. This material is recommended for use blast furnace troughs and cupola carbon wells

**SERVICE TEMPERATURE:** 3000°F (reducing)  
**MATERIAL REQUIRED FOR ESTIMATING:** 176 lbs/cf  
**BINDER ADDITION:** 9 – 10.5% by weight  
**STORAGE LIFE:** 1 year

**TYPICAL CHEMICAL ANALYSIS** (Calcined Basis)

| Al <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | SiC + C |
|--------------------------------|------------------|--------------------------------|------------------|---------|
| 76                             | 5                | 0.8                            | 2.5              | 15 - 16 |

**TYPICAL PHYSICAL PROPERTIES** (reducing conditions above 250 °F)

| Prefired to °F | Modulus of Rupture, psi | Cold Crushing Strength, psi | Linear Change % |
|----------------|-------------------------|-----------------------------|-----------------|
| 250            | 770 - 850               | 4,600 – 5,260               | Nil             |
| 1,500          | 1,800 – 1,920           | 6,200 – 7,000               | -0.1            |
| 2,500          | 1,900 – 2,050           | 12,300 – 12,700             | -0.1            |

**ABRASION LOSS After 2000°F:** <5 cc

**ABRASION LOSS After 2500°F:** <3 cc

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3,960 lbs.)  
1500 lb. Bags, 2 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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