

## SPARCON 31G

**SPARCON 31G** is a 60% alumina high strength, low-cement bonded refractory designed for dry gunning only. Is a true low cement product and is very resistant to mechanical abuse and chemical attack. It is used in the power generation, incineration, cement, lime, heat treating, and other industries.

### PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Bulk Density	140 – 145 lbs./cu.ft.
Water Required for Predampening	¾ - 1¾ quarts per 100 lbs.
Modulus of Rupture	
After Heating to 1500°F	1500-2200 lbs/sq.in
After Heating to 2500°F	1600-2200 lbs/sq.in
<b>Cold Crushing Strength</b>	
After Heating to 1500°F	8500-14000 lbs/sq.in
After Heating to 2500°F	9000-14000 lbs/sq.in
Linear Change, %	
After Heating to 1500°F	-0.1 to - 0.4
After Heating to 2500°F	-0.1 to -0.3
Erosion Resistance (ASTM C704)	Less than 10 cc loss (Typical: 6 - 8 cc loss)
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	58.5
SiO <sub>2</sub>	35.9
CaO	2.2
TiO <sub>2</sub>	1.5
Fe <sub>2</sub> O <sub>3</sub>	0.9
MgO	0.1
Alkalies	0.2

**SPARCON 31G** is available in 55# bags, 1500#, 2000#, and 3000# bulk bags, palletized and shrink-wrapped.

#### **NOTE: CASTABLES MUST BE STORED IN A DRY PLACE**

Data shown are average results of standard ASTM tests unless otherwise noted. Results may vary subject to variations in manufacturing, testing, and installation procedures in the field.