

SPARFIRE 31G

SPARFIRE 31G is a high strength, low-cement bonded refractory designed for dry gunning only.

PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Bulk Density	140 – 145 lbs./cu.ft.
Water Required for Predampening	$\frac{3}{4}$ - $1\frac{3}{4}$ quarts per 100 lbs.
Modulus of Rupture After Heating to 1500°F	1000-1700 lbs/sq.in
Cold Crushing Strength After Heating to 1500°F	8500-12000 lbs/sq.in
Linear Change, % After Drying to 230°F	0.0 to -0.4
After Heating to 1500°F	0.0 to -0.4
After Heating to 2250°F	0.0 to -0.4
Erosion Resistance (ASTM C704)	Less than 14 cc loss (Typical: 8 – 10 cc loss)
Typical Chemical Analysis, %	
Al ₂ O ₃	59.7
SiO ₂	35.5
CaO	1.1
TiO ₂	1.8
Fe ₂ O ₃	1.2
MgO	0.4
Alkalies	0.3

SPARFIRE 31G is available in 55[#] bags and 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.