

LOW CEMENT SPECIALTIES

PRODUCT DATA

SPARFIRE 31ZG

SPARFIRE 31ZG is a high strength, low-cement bonded refractory gun mix containing zircon for increased resistance to build-up in cyclones and pre-calciners in cement plants. **SPARFIRE 31 ZG** is designed to withstand accelerated dry out schedules.

PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Bulk Density	144 - 149 lbs./cu.ft.
Modulus of Rupture After Heating to 1500°F	1300-1700 lbs/sq.in
Cold Crushing Strength After Heating to 1500°F	9000-14000 lbs/sq.in
Linear Change, % After Heating to 1500°F	0.0 to - 0.4
Erosion Resistance (ASTM C704)	Less than 12 cc loss (Typical: 7 - 9 cc loss)

Typical Chemical Analysis, %

Al ₂ O ₃	55.0
SiO ₂	35.9
CaO	2.1
TiO ₂	1.5
Fe ₂ O ₃	0.9
MgO	0.1
ZrO ₂	4.2
Alkalies	0.2

SPARFIRE 31ZG 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.