

## SPARFIRE 45G

**SPARFIRE 45G** is a high strength, very low-cement bonded refractory designed for installation by dry gunite only. This product virtually eliminates the need for long (24 hour) curing time in the unit. Additionally, this product was designed for an accelerated dryout schedule.

### PHYSICAL PROPERTIES

Maximum Service Temperature	3000°F
Water Required for Predampening	¾ - 1¾ quarts per 100 lbs.
Erosion Resistance (ASTM C704)	Less than 14 cc loss (Typical: 8 - 10 cc loss)
Modulus of Rupture	
After Heating to 1500°F	1400-2000 lbs/sq.in.
After Heating to 2500°F	1800-2500 lbs/sq.in.
Cold Crushing Strength	
After Heating to 1500°F	8800-12000 lbs/sq.in.
After Heating to 2500°F	8500-12500 lbs/sq.in.
Linear Change, %	
After Heating to 1500°F	0.0 to -0.4
After Heating to 2500°F	+0.3 to +0.7
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	45.2
SiO <sub>2</sub>	46.7
CaO	2.0
TiO <sub>2</sub>	1.2
Fe <sub>2</sub> O <sub>3</sub>	0.9
MgO	0.1
Alkalies	0.2
Other	3.7

**SPARFIRE 45G** is available in 50# bags, 100# 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.