

## SPARFIRE 32-80HP

**SPARFIRE 32-80HP** is a 3200°F high strength castable that provides maximum abrasion resistance and excellent strengths. **SPARFIRE 32-80HP** may be applied by hand packing only. This product was designed for an accelerated dryout schedule.

### PHYSICAL PROPERTIES

Maximum Service Temperature	3200°F
Mix Water Required: (% by Weight)	5.00 – 5.50
Bulk Density: 230°F	175 lbs/cu.ft
: 1700°F	170 lbs/cu.ft
Modulus of Rupture	
After Heating to 1700°F	2500 -3500 lbs/sq.in
After Heating to 2500°F	2000 -3000 lbs/sq.in
Cold Crushing Strength	
After Heating to 1700°F	15000-20000 lbs/sq.in
After Heating to 2500°F	16000-21000 lbs/sq.in
Linear Change, %	
After Heating to 1700°F	-0.1 to -0.4
After Heating to 2500°F	0.0 to -0.3
Erosion Resistance (ASTM C704)	
After Heating to 1500°F	Less than 4 cc (Typical Loss: <3 cc)
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	80.5
SiO <sub>2</sub>	14.6
CaO	1.8
TiO <sub>2</sub>	2.3
Fe <sub>2</sub> O <sub>3</sub>	0.7
MgO	0.1
Alkalies	0.4

**SPARFIRE 32-80HP** is available in 50# bags, 1500#, 2000#, and 3000# bulk bags palletized and shrink-wrapped.

**NOTE: CASTABLE MUST BE STORED IN DRY PLACE.**

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