

## SPARFIRE 65

**SPARFIRE 65** is a high strength, very low-cement bonded refractory designed for installation by vibration casting, pumpcasting or shotcreting. 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

(properties obtained on samples demolded after 4 hours and fired to 1500F @ 150F/hour with 5 hour soak)

Maximum Service Temperature	3000°F	
	<u>Vibrate Cast</u>	<u>Pump Cast</u>
Mix Water Required (% by weight)	5.0 – 5.5	6.0 – 6.5
Bulk Density(lbs/cu ft)		
After Heating to 1500°F	157	153
Erosion Resistance (ASTM C704)	10 cc Max	13 cc Max
Modulus of Rupture (lbs/sq.in.)		
After Heating to 1500°F	1600 – 2300	1200 - 1600
Cold Crushing Strength (lbs/sq.in.)		
After Heating to 1500°F	12000-16000	9000 - 14000
Linear Change, %		
After Heating to 1500°F	0.0 to -0.4	0.0 to -0.4
Typical Chemical Analysis, %		
Al <sub>2</sub> O <sub>3</sub>	62.9	
SiO <sub>2</sub>	32.9	
CaO	1.0	
TiO <sub>2</sub>	1.7	
Fe <sub>2</sub> O <sub>3</sub>	1.0	
MgO	0.1	
Alkalies	0.3	

**SPARFIRE 65** 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.