

LOW CEMENT SPECIALTIES

PRODUCT DATA

SPARFIRE 84

SPARFIRE 84 is a high alumina, 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

Maximum Service Temperature	3200°F	
	<u>Data shown at pumpcast consistency</u>	
	<u>4 hours</u>	<u>24 hours</u>
Elapsed time between casting and initial heat up		
Bulk Density(lbs/cu ft)		
After Heating to 1500°F	167 – 172 pcf	167 – 172 pcf
Erosion Resistance (ASTM C704)	Less than 13 cc loss (10 – 12 cc typical)	Less than 10 cc loss (7 – 9 cc typical)
Modulus of Rupture (lbs/sq.in.)		
After Heating to 1500°F	1000 – 1500	1300 - 1800
Cold Crushing Strength (lbs/sq.in.)		
After Heating to 1500°F	8000-11000	9000 - 13000
Linear Change, %		
After Heating to 1500°F	0.0 to -0.4	0.0 to -0.4
Typical Chemical Analysis, %		
Al ₂ O ₃	82.3	
SiO ₂	12.9	
CaO	1.3	
TiO ₂	2.2	
Fe ₂ O ₃	0.9	
MgO	0.1	
Alkalies	0.3	

SPARFIRE 84 is available in 50# 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.