

SPARFIRE 80HS

SPARFIRE 80HS is a high strength, medium weight insulating castable suitable for hot face exposure as well as being a good insulator. **SPARFIRE 80HS** can be cast or gunned. Additionally this product was specifically designed for an accelerated dryout.

PHYSICAL PROPERTIES

Maximum Service Temperature	2500°F		
Water Required for Casting	26.0 – 28.0%		
Water Required for Predampening:	1 to 2 qts/50 lb. bag		
Bulk Density, lbs/ft ³	<u>Cast</u>	<u>Gunite</u>	
	80-85	90 - 98	
Cold Crushing Strength, psi			
	After Heating to 1500°F	2300 – 2700	3000 – 3500
	After Heating to 2000°F	2300 – 2700	3000 – 3500
Modulus of Rupture, psi			
	After Heating to 1500°F	450 – 550	500 - 700
	After Heating to 2000°F	400 – 500	450 – 650
Linear Change, %			
	After Heating to 1500°F	-0.1 to -0.4	-0.2 to -0.5
	After Heating to 2000°F	-0.3 to -0.7	-0.4 to -0.8
Thermal Conductivity:			
<u>Mean Temp:</u>	<u>BTU/ft²/Hr/°F/in</u>		
500°F	2.3		
1000°F	2.5		
1500°F	2.6		
Typical Chemical Analysis, %			
Al ₂ O ₃	31.7		
SiO ₂	48.7		
CaO	13.7		
TiO ₂	0.9		
Fe ₂ O ₃	4.1		
MgO	0.3		
Alkalies	0.5		

The above are average results and do not constitute a specification.

SPARFIRE 80HS is available in 60# bags, 1000#, and 2000# bulk bags palletized and shrink-wrapped.

NOTE: CASTABLE MUST BE STORED IN 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.