

SPARFIRE LW 80HS

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

PHYSICAL PROPERTIES

Maximum Service Temperature:	2500°F	
Water Required for Casting:	26% – 28% by weight	
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	1900 - 2300	2600 - 3100
After Heating to 2000°F	1900 - 2300	2600 - 3100
Modulus of Rupture, psi		
After Heating to 1500°F	300 - 500	350 - 650
After Heating to 2000°F	300 - 500	350 - 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	30.5	
SiO ₂	50.4	
CaO	13.1	
TiO ₂	0.9	
Fe ₂ O ₃	4.0	
MgO	0.5	
Alkalies	0.6	

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

SPARFIRE LW 80HS is available in 50# bags and 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.