

SPARLITE 80HS AL

SPARLITE 80HS AL is a high strength, medium weight insulating castable suitable for use in aluminum metal contact applications. It may be used for hot face exposure as well as being a good insulator. **SPARLITE 80HS AL** can be cast or gunned.

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

	<u>Cast</u>	<u>Gunite</u>
Bulk Density, lbs/ft ³	80-85	90 - 98
Cold Crushing Strength, psi		
After Heating to 1500°F	1300 – 2200	1400 – 2200
After Heating to 2000°F	1300 – 2200	1400 – 2200
Modulus of Rupture, psi		
After Heating to 1500°F	250 – 550	300 - 700
After Heating to 2000°F	250 – 500	300 – 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>BTU/ft²/Hr/°F/in</u>
<u>Mean Temp:</u>	
500°F	2.3
1000°F	2.5
1500°F	2.6

Typical Chemical Analysis, %	
Al ₂ O ₃	31.2
SiO ₂	47.4
CaO	15.4
TiO ₂	0.9
Fe ₂ O ₃	4.1
MgO	0.4
Alkalies	0.6

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

SPARLITE 80HS AL is available in 55[#] 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.