

## SPARFIRE LW 80

**SPARFIRE LW 80** is a medium weight insulating castable having intermediate strength suitable for hot face exposure as well as being a good insulator. **SPARFIRE LW 80** 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	6 to 7 qts/ 50 lb. bag	
Water Required for Predampening:	1 to 2 qts/50 lb. bag	
Bulk Density, lbs/ft <sup>3</sup>	<u>Cast</u> 75	<u>Gunite</u> 90 - 98
Cold Crushing Strength, psi		
After Heating to 1500°F	600 - 1000	1500 - 2000
After Heating to 2000°F	700 - 1000	1500 - 2000
Modulus of Rupture, psi		
After Heating to 1500°F	200 - 300	300 - 500
After Heating to 2000°F	200 - 300	350 - 550
Linear Change, %		
After Heating to 1500°F	-0.1 to -0.5	-0.2 to -0.5
After Heating to 2000°F	-0.3 to -0.8	-0.4 to -0.8
Thermal Conductivity:		
<u>Mean Temp:</u>	<u>BTU/ft<sup>2</sup>/Hr/°F/in</u>	
500°F	2.3	
1000°F	2.5	
1500°F	2.6	
Typical Chemical Analysis, %		
Al <sub>2</sub> O <sub>3</sub>	42.4	
SiO <sub>2</sub>	41.1	
CaO	12.9	
TiO <sub>2</sub>	1.5	
Fe <sub>2</sub> O <sub>3</sub>	1.1	
MgO	0.1	
Alkalies	0.9	

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

**SPARFIRE LW 80** 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.