

## SPARFIRE LW 55

**SPARFIRE LW 55** is an insulating castable that offers a high strength- to-insulation ratio at approximately 55 lb/ft<sup>3</sup>. This product has low thermal conductivity and can be cast or gunned. Additionally, this product was designed for an accelerated dryout schedule.

### PHYSICAL PROPERTIES

Maximum Service Temperature	2300°F	
Water Required for Casting	11.5 to 12.5 qts/ 50 lb. bag	
Water Required for Predampening:	1.5 to 3 qts/50 lb. bag	
Bulk Density, lbs/ft <sup>3</sup>	<u>Cast</u> 53 - 58	<u>Gunite</u> 59 - 67
Cold Crushing Strength, psi After Heating to 1500°F	350 - 550	500 - 900
Modulus of Rupture, psi After Heating to 1500°F	100 - 200	250 - 350
Linear Change, % After Heating to 1500°F	-0.3 to -0.7	-0.3 to -0.7

Thermal Conductivity:

<u>Mean Temp:</u>	<u>BTU/ft<sup>2</sup>/Hr/°F/in</u>
500°F	1.65
1000°F	1.55
1500°F	1.55

Typical Chemical Analysis, %

Al <sub>2</sub> O <sub>3</sub>	32.5
SiO <sub>2</sub>	45.9
CaO	14.2
TiO <sub>2</sub>	1.0
Fe <sub>2</sub> O <sub>3</sub>	3.1
MgO	1.6
Alkalies	1.7

**SPARFIRE LW 55** is available in 50# 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.