

## SPARCAST LC 90 S

**SPARCAST LC 90 S** is a high strength, high density, thermal shock resistant castable with good volume stability. It contains a silicon carbide reinforced matrix and special sintering aids to make it extremely resistant to all iron making slags.

### PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Dry Castable Requirement	183 - 189 lbs./cu.ft.
Mix Water Required to Cast ( % by weight):	5.5 to 6.5
Bulk Density after 230°F	187 - 195 lbs./cu.ft
Modulus of Rupture	
After Drying at 230°F	900-1600 lbs/sq.in.
After Heating to 1500°F	900-1800 lbs/sq.in
After Heating to 2250°F	1400-2400 lbs/sq.in
Cold Crushing Strength	
After Drying at 230°F	7000-10000 lbs/sq.in.
After Heating to 1500°F	7000-10000 lbs/sq.in
After Heating to 2250°F	8000-13000 lbs/sq.in
Linear Change, %	
After Drying at 230°F	0.0 to -0.5
After Heating to 1500°F	0.0 to -0.5
After Heating to 2250°F	0.0 to -0.5
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	66
SiC + C	19

**SPARCAST LC 90 S** is available in 55<sup>#</sup> 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.