

SPARCAST LC 90

SPARCAST LC 90 is an extra high purity alumina low cement castable. It is very resistant to hot metal / slag, erosion, and corrosion. It is also very abrasion resistant.

PHYSICAL PROPERTIES

Maximum Service Temperature	3300° F
Dry Castable Requirement	190 - 197 lbs./cu.ft.
Mix Water Required: Vibrating	5.0 – 6.0
(% by Weight) Ramming	4.0 - 5.0
Bulk Density after 230° F	190 - 200 lbs./cu.ft
Modulus of Rupture	
After Drying at 230° F	1900-2900 lbs/sq.in.
After Heating to 1500° F	2000-3000 lbs/sq.in
After Heating to 2250° F	1800-2800 lbs/sq.in
After Heating to 2910° F	2300-3000 lbs/sq.in
Cold Crushing Strength	
After Drying at 230° F	13000-18000 lbs/sq.in.
After Heating to 1500° F	14000-20000 lbs/sq.in
After Heating to 2250° F	14000-22000 lbs/sq.in
After Heating to 2910° F	14000-20000 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
After Heating to 2910° F	+0.2 to +0.8
Erosion Resistance (ASTM C704)	Less than 10 cc loss. (Typical: 5 - 7 cc loss)
Typical Chemical Analysis, %	
Al ₂ O ₃	90.8
CaO	1.3
TiO ₂	0.3
Fe ₂ O ₃	0.1
SiO ₂	7.5

SPARCAST LC 90 is available in 55[#] bags and bulk bags, palletized and shrink-wrapped.

NOTE: CASTABLES MUST BE STORED IN A 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.