

SPARCAST 100C

SPARCAST 100C is a high strength, medium weight, abrasion resistant castable designed for applications where higher strength and good insulation is needed.

PHYSICAL PROPERTIES

Maximum Service Temperature	2500°F
Dry Castable Requirement	102 lbs./cu.ft.
Mix Water Required (by weight %)	16.0 – 17.0%
Bulk Density (at 230°F)	110 - 115 lbs./cu.ft
(at 1500°F)	100 - 105 lbs./cu.ft
Modulus of Rupture	
After Heating to 1500°F	900 - 1100 lbs/sq.in.
After Heating to 2000°F	800 - 1000 lbs/sq.in
Cold Crushing Strength	
After Heating to 1500°F	6000 - 9000 lbs/sq.in
After Heating to 2000°F	5000 - 8000 lbs/sq.in
Linear Change, %	
After Heating to 1500°F	-0.1 to -0.4%
After Heating to 2000°F	-0.1 to -0.4%
Erosion Resistance (ASTM C704)	
After Heating to 1500°F	Less than 15cc
Typical Chemical Analysis, %	
Al ₂ O ₃	46.8
SiO ₂	40.2
CaO	8.5
TiO ₂	0.6
Fe ₂ O ₃	2.6
MgO	0.4
Alkalies	1.0

SPARCAST 100C is available in 50# bags or 1000#, 1500#, 2000# bulk bags, palletized and shrink-wrapped. Store 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.