

SPARCAST 31 AL

SPARCAST 31 AL is a low iron, high purity refractory castable designed for casting and troweling in aluminum applications.

PHYSICAL PROPERTIES

Maximum Service Temperature	3100°F
Dry Castable Requirement	125 - 135 lbs./cu.ft.
Approximate Water for Pouring	1.0 to 1.3 gal./100 lbs.
Bulk Density after 230°F	130 - 140 lbs./cu.ft
Modulus of Rupture	
After Drying at 230°F	300-550 lbs/sq.in.
After Heating to 1500°F	250-550 lbs/sq.in
After Heating to 2250°F	250-500 lbs/sq.in
After Heating to 2910°F	600-1200 lbs/sq.in
Cold Crushing Strength	
After Drying at 230°F	2000-3500 lbs/sq.in.
After Heating to 1500°F	1500-3500 lbs/sq.in
After Heating to 2250°F	1250-3000 lbs/sq.in
After Heating to 2910°F	1500-3000 lbs/sq.in
Linear Change, %	
After Drying at 230°F	0.0 to -0.4
After Heating to 1500°F	0.0 to -0.4
After Heating to 2250°F	0.0 to -0.3
After Heating to 2910°F	+0.1 to +0.8
Typical Chemical Analysis, %	
Al ₂ O ₃	62.0
SiO ₂	31.5
CaO	4.2
TiO ₂	1.0
Fe ₂ O ₃	0.9
MgO	0.1
Alkalies	0.3

SPARCAST 31 AL is available in 50# or 55# bags, or in various sized 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.