

SPARFIRE 110P

SPARFIRE 110P is a rapid fire, high strength, medium weight, abrasion resistant castable designed to be installed by pumping. It is used for applications where high strength and good insulation are needed.

PHYSICAL PROPERTIES

Maximum Service Temperature	2500°F
Dry Castable Requirement	111 - 116 lbs./cu.ft.
Bulk Density (at 230°F)	123 - 129 lbs./cu.ft
(at 1500°F)	111 - 116 lbs./cu.ft
Modulus of Rupture	
After Heating to 1500°F	700 - 1100 lbs/sq.in.
Cold Crushing Strength	
After Heating to 1500°F	8000 - 13000 lbs/sq.in
Linear Change, %	
After Heating to 1500°F	-0.1 to -0.5%
Erosion Resistance (ASTM C704)	
After Heating to 1500°F	Less than 16 cc (Typical: 9 – 12 cc loss)
Thermal Conductivity	BTU/ft ² /hr/°F/in
500°F	6.5
1000°F	6.2
1500°F	5.7
Typical Chemical Analysis, %	
Al ₂ O ₃	50.5
SiO ₂	34.4
CaO	11.4
TiO ₂	1.0
Fe ₂ O ₃	1.2
MgO	0.5
Alkalies	1.0

SPARFIRE 110P is available in 55[#] bags and 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.