

## SPARCON AP

**SPARCON AP** is an andalusite, low-cement refractory designed for installation by vibration casting, pumpcasting or shotcreting. **SPARCON AP** is designed to be user friendly. It is installed with substantially lower vibration and greater ease than standard low cement castables.

Maximum Service Temperature	3000°F
Dry Castable Requirement	157 -163 lbs./cu.ft.
Erosion Resistance (ASTM C704)	Less than 11 cc loss. (Typical: 7 – 9 cc loss)
Modulus of Rupture	
After Heating to 1500°F	1300-1700 lbs/sq.in.
After Heating to 2300°F	900-1300 lbs/sq.in.
Cold Crushing Strength	
After Heating to 1500°F	10000-14000 lbs/sq.in.
After Heating to 2300°F	9000-13000 lbs/sq.in.
Linear Change, %	
After Heating to 1500°F	0.0 to -0.4
After Heating to 2300°F	+0.9 to +1.3
Hot MORat 2000°F (ASTM C-583)	2674 psi
Thermal Shock Test (ASTM C1171)	
MOR strength loss upon cycling	19%
Typical Chemical Analysis, %	
Al <sub>2</sub> O <sub>3</sub>	59.0
SiO <sub>2</sub>	37.1
CaO	2.0
TiO <sub>2</sub>	0.4
Fe <sub>2</sub> O <sub>3</sub>	0.8
MgO	0.1
Alkalies	0.3

**SPARCON AP** is available in 50# bags, 100# bags, 1500#, 2000#, and 3000# 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.