

## SPARCON SC 70HP

**SPARCON SC 70HP** is a 70% silicon carbide, low-cement bonded, specialty refractory which combines excellent abrasion resistance and high thermal conductivity. It is an excellent choice for tube walls in the combustion zone of power plant generating units and waste incinerators. This product was designed specifically for handpack applications.

### PHYSICAL PROPERTIES

Maximum Service Temperature	2600°F
Water Required for handpacking (by weight)	5.0% to 6.0%
Bulk Density, lbs/ft <sup>3</sup>	
After Heating to 230°F	167
After Heating to 1500°F	163
Cold Crushing Strength, psi	
After Heating to 1500°F	14000 - 19000
Modulus of Rupture, psi	
After Heating to 1500°F	3500 - 4500
Erosion Resistance (ASTM C704)	Less than 8 cc loss
After Heating to 1500°F	(Typical: 3.5 to 5 cc loss)
Linear Change, %	
After Heating to 1500°F	-0.1 to -0.4
Thermal Conductivity:	
<u>Mean Temp:</u>	<u>BTU/ft<sup>2</sup>/Hr/°F/in</u>
1000°F	65
1500°F	75
Typical Chemical Analysis, %	
SiC	69.6
Al <sub>2</sub> O <sub>3</sub>	19.4
SiO <sub>2</sub>	8.9
CaO	1.7
TiO <sub>2</sub>	0.1
Fe <sub>2</sub> O <sub>3</sub>	0.1
Alkalies	0.2

**SPARCON SC 70HP** is available in 50# bags or 100# bags palletized and shrink-wrapped.

### NOTE: CASTABLE MUST BE STORED IN DRY PLACE

Data shown are average results of standard ASTM testing unless otherwise noted. Results may vary subject to normal variations in manufacturing, testing, and installation procedures in the field.