

## SPARCON SC 80HP

**SPARCON SC 80HP** is an 80% 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	2800°F
Water Required for handpacking (by weight)	5.0% to 6.0%
Bulk Density, lbs/ft <sup>3</sup>	
After Heating to 230°F	162
After Heating to 1700°F	159
Cold Crushing Strength, psi	
After Heating to 1700°F	11000 - 16000
Modulus of Rupture, psi	
After Heating to 1700°F	3500 - 4500
Erosion Resistance (ASTM C704)	
After Heating to 1700°F	Less than 10 cc loss (Typical: 5 to 6 cc loss)
Linear Change, %	
After Heating to 1700°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
1700°F	75

#### Typical Chemical Analysis, %

SiC	78.0
Al <sub>2</sub> O <sub>3</sub>	11.1
SiO <sub>2</sub>	9.1
CaO	1.4
TiO <sub>2</sub>	0.0
Fe <sub>2</sub> O <sub>3</sub>	0.1
MgO	0.1
Alkalies	0.2

**SPARCON SC 80HP** 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.