

SPARCON SC 80P

SPARCON SC 80P is an 80% silicon carbide, low-cement, 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 can be installed by vibration casting, pumpcasting, and shotcreting..

PHYSICAL PROPERTIES

Maximum Service Temperature		2800°F
Water Required for Vibration Casting (by weight)		4.5% to 5.0%
Water Required for Pumpcast/Shotcrete: (by weight)		5.0% to 6.0%
Bulk Density, lbs/ft ³		
After Heating to 230°F		160
After Heating to 1700°F		158
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)		Less than 10 cc loss
After Heating to 1700°F		(Typical: 5 to 6 cc loss)
Linear Change, %		
After Heating to 1700°F		-0.1 to -0.4
Thermal Conductivity:		
Mean Temp:	BTU/ft ² /Hr/°F/in	
1000°F		65
1700°F		75
Typical Chemical Analysis, %		
SiC		78.0
Al ₂ O ₃		11.1
SiO ₂		9.1
CaO		1.4
TiO ₂		0.0
Fe ₂ O ₃		0.1
MgO		0.1
Alkalies		0.2

SPARCON SC 80P is available in 50# bags, 100# bags, 1000#, 2000#, or 3000# bulk 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.