

SPARFIRE SC 80P

SPARFIRE SC 80P is an 80% silicon carbide, low-cement refractory designed to be installed by vibration casting, pumpcasting or shotcreting. This product virtually eliminates the need for long (24 hour) curing time in the unit. Additionally, this product is designed for an accelerated dry out schedule.

PHYSICAL PROPERTIES

| | |
|--|------------------------------------|
| Maximum Service Temperature | 2750°F |
| Water Required for Vibration Casting (by weight) | 4.7% to 5.1% |
| Water Required for Pumpcast/Shotcrete: (by weight) | 5.1% to 6.2% |
| Bulk Density, lbs/ft ³ | |
| After Heating to 230°F | 162 |
| After Heating to 1700°F | 160 |
| Cold Crushing Strength, psi | |
| After Heating to 1700°F | 7500 - 12000 |
| Modulus of Rupture, psi | |
| After Heating to 1700°F | 1600 - 2300 |
| Erosion Resistance (ASTM C704) | Less than 14 cc loss |
| After Heating to 1700°F | (Typical: 7 to 11 cc loss) |
| Linear Change, % | |
| After Heating to 1700°F | -0.1 to -0.4 |
| Thermal Conductivity: | |
| <u>Mean Temp:</u> | <u>BTU/ft²/Hr/°F/in</u> |
| 1000°F | 65 |
| 1700°F | 75 |
| Typical Chemical Analysis, % | |
| SiC | 78.2 |
| Al ₂ O ₃ | 10.1 |
| SiO ₂ | 9.6 |
| CaO | 1.0 |
| TiO ₂ | 0.2 |
| Fe ₂ O ₃ | 0.3 |
| MgO | 0.2 |
| Alkalies | 0.4 |

SPARFIRE 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.