

## SPARFIRE FS 60G

**SPARFIRE FS 60G** is a fused silica, low-cement bonded refractory designed for installation by dry gunning ONLY. It can be used in a wide variety of applications where severe thermal cycling is a problem. This product virtually eliminates the need for long (24 hour) curing time in the unit. Additionally, this product was designed for an accelerated dryout schedule.

### PHYSICAL PROPERTIES

|  |  |   |
|--|--|---|
| Maximum Service Temperature (cyclic conditions)  | 2000°F                                       |   |
| Elapsed time between casting and initial heat up | <u>4 hours</u>                               | <u>24 hours</u>                             |
| Bulk Density(lbs/cu ft)                          |  |   |
| After Heating to 1500°F                          | 127 – 132 pcf                                | 127 – 132 pcf                               |
| Erosion Resistance (ASTM C704)                   | Less than 16 cc loss<br>(10 – 14 cc typical) | Less than 16 cc loss<br>(9 – 12 cc typical) |
| Modulus of Rupture (lbs/sq.in.)                  |  |   |
| After Heating to 1500°F                          | 600 – 1000                                   | 900 - 1400                                  |
| Cold Crushing Strength (lbs/sq.in.)              |  |   |
| After Heating to 1500°F                          | 6000-10000                                   | 7000 - 11000                                |
| Linear Change, %                                 |  |   |
| After Heating to 1500°F                          | 0.0 to -0.4                                  | 0.0 to -0.4                                 |
| Typical Chemical Analysis, %                     |  |   |
| Al <sub>2</sub> O <sub>3</sub>                   | 18.7   |   |
| SiO <sub>2</sub>                                 | 78.5   |   |
| CaO  | 1.1  |   |
| ZrO <sub>2</sub>                                 | 0.8  |   |
| Fe <sub>2</sub> O <sub>3</sub>                   | 0.3  |   |
| MgO  | 0.3  |   |
| Alkalies   | 0.3  |   |

**SPARFIRE FS 60G** is available in 50# 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.