

## SPARCAST ES-G

**SPARCAST ES-G** is a low iron abrasion resistant gun mix designed for extreme service petrochem applications such as transfer lines and other areas where high strength and excellent abrasion resistance is required. **SPARCAST ES-G** should be pre-dampened to minimize rebound.

### PHYSICAL PROPERTIES

Maximum Service Temperature	2700°F
Water Required for Casting	9.25 to 9.75% by weight
Water Required for Pre-dampening	½ to 1 qt. Per 50lb/bag
Bulk Density, lbs/ft <sup>3</sup>	
After Heating to 1500°F	128 - 134
Cold Crushing Strength, psi	
After Heating to 1500°F	7500 - 12000
Modulus of Rupture, psi	
After Heating to 1500°F	1200 - 1800
Linear Change, %	
After Heating to 1500°F	-0.0 to -0.3
Erosion Resistance (ASTM C704)	
After Heating to 1500°F	Max. 12 cc loss. (Typical: 9 to 10 cc loss)

#### Thermal Conductivity:

<u>Mean Temp:</u>	<u>BTU/ft<sup>2</sup>/Hr/°F/in</u>
500°F	7.0
1000°F	7.8
1500°F	8.2

#### Typical Chemical Analysis, %

Al <sub>2</sub> O <sub>3</sub>	54.4
SiO <sub>2</sub>	35.8
CaO	7.5
TiO <sub>2</sub>	1.2
Fe <sub>2</sub> O <sub>3</sub>	0.6
MgO	0.1
Alkalies	0.3

The above are average results and do not constitute a specification.

**SPARCAST ES-G** is available in 50# bags, 1000#, 1500# and 2000# bulk bags palletized and shrink-wrapped.

#### **NOTE: CASTABLE MUST BE STORED IN 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.