

## SPARLITE 75HS

**SPARLITE 75HS** is a high strength, medium weight insulating castable suitable for hot face exposure as well as being a good insulator. **SPARLITE 75HS** can be cast or gunned.

### PHYSICAL PROPERTIES

|                                   |                                    |               |
|-----------------------------------|------------------------------------|---------------|
| Maximum Service Temperature       | <b>2500°F</b>                      |               |
| Water Required for Casting        | 29.0 – 31.0%                       |               |
| Water Required for Predampening:  | 1 to 2 qts/50 lb. bag              |               |
| Bulk Density, lbs/ft <sup>3</sup> | <u>Cast</u>                        | <u>Gunite</u> |
|                                   | 72-78                              | 82 - 88       |
| Cold Crushing Strength, psi       |                                    |               |
| After Heating to 1500°F           | 1500 – 2200                        | 2000 – 2800   |
| After Heating to 2000°F           | 1200 – 1800                        | 1700 – 2500   |
| Modulus of Rupture, psi           |                                    |               |
| After Heating to 1500°F           | 400 – 500                          | 450 - 550     |
| After Heating to 2000°F           | 400 – 500                          | 450 – 550     |
| Linear Change, %                  |                                    |               |
| After Heating to 1500°F           | -0.1 to -0.4                       | -0.2 to -0.5  |
| After Heating to 2000°F           | -0.3 to -0.7                       | -0.4 to -0.8  |
| Thermal Conductivity:             |                                    |               |
| <u>Mean Temp:</u>                 | <u>BTU/ft<sup>2</sup>/Hr/°F/in</u> |               |
| 500°F                             | 2.3                                |               |
| 1000°F                            | 2.5                                |               |
| 1500°F                            | 2.6                                |               |
| Typical Chemical Analysis, %      |                                    |               |
| Al <sub>2</sub> O <sub>3</sub>    | 30.4                               |               |
| SiO <sub>2</sub>                  | 49.7                               |               |
| CaO                               | 14.0                               |               |
| TiO <sub>2</sub>                  | 0.8                                |               |
| Fe <sub>2</sub> O <sub>3</sub>    | 4.2                                |               |
| MgO                               | 0.2                                |               |
| Alkalies                          | 0.6                                |               |

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

**SPARLITE 75HS** is available in 50# bags, 1000#, 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.