

# MILBRO REFRACTORIES, INC.

## MILRAM SIC

A high purity, silicon carbide, ramming mix. Air setting. Can be rammed to high densities. Excellent strength and abrasion resistance. Very good volume stability throughout the temperature range.

|   |                                |
|---|--------------------------------|
| <b>Service Temperature</b>              | <b>3400° F</b>                 |
| <b>Melting Point</b>                    | <b>3485° F</b>                 |
| <b>Material Required for Estimating</b> | <b>178 lbs./ft<sup>3</sup></b> |

### TYPICAL CHEMICAL ANALYSIS

|                                |       |
|--------------------------------|-------|
| SIC,C                          | 89.5  |
| Al <sub>2</sub> O <sub>3</sub> | 5.4   |
| SiO <sub>2</sub>               | 3.6   |
| Fe <sub>2</sub> O <sub>3</sub> | 0.8   |
| TiO <sub>2</sub>               | 0.5   |
| MgO                            | Trace |

### TYPICAL PHYSICAL PROPERTIES

| Temperature<br>°F | Modulus of<br>Rupture, psi | Cold Crushing<br>Strength, psi | Linear change<br>% |
|-------------------|----------------------------|--------------------------------|--------------------|
| 220°F             | 500-650                    | 1550-1850                      | 0.2 S              |
| 2000°F            | 450-700                    | 1450-1700                      | 0.1 S              |
| 2500°F            | 800-950                    | 3100-3650                      | 0.1 E              |
| 3000°F            | 700-900                    | 2800-3350                      | 0.1 E              |

All data shown is based on average of standard ASTM procedures, unless otherwise indicated. Results are subject to reasonable deviation and should not be used for specification purposes.