

# MILBRO REFRACTORIES, INC.

## MILCAST 28 SS

A high strength, coarse aggregate castable, specially formulated to exhibit, excellent abrasion resistance and thermal shock properties. MILCAST 28 SS, contains low iron, has moderate insulating values, and is typically used to cast special shapes to 2800° F.

|                                         |                                |
|-----------------------------------------|--------------------------------|
| <b>Service Temperature</b>              | <b>2800° F</b>                 |
| <b>Material Required for Estimating</b> | <b>128 lbs./ft<sup>3</sup></b> |
| <b>Mixing Water Required</b>            | <b>6.0-6.5 qt./100lbs</b>      |

### TYPICAL CHEMICAL ANALYSIS

|                                |      |
|--------------------------------|------|
| Al <sub>2</sub> O <sub>3</sub> | 51.3 |
| SiO <sub>2</sub>               | 37.7 |
| Fe <sub>2</sub> O <sub>3</sub> | 1.2  |
| TiO <sub>2</sub>               | 1.9  |
| MgO                            | 0.1  |
| CaO                            | 7.3  |

### TYPICAL PHYSICAL PROPERTIES

| Temperature<br>°F | Modulus of<br>Rupture, psi | Cold Crushing<br>Strength, psi | Linear change<br>% |
|-------------------|----------------------------|--------------------------------|--------------------|
| 220°F             | 975-1250                   | 3300-3800                      | 0.1 S              |
| 1500°F            | 500-700                    | 2500-2900                      | 0.1 S              |
| 2000°F            | 800-1050                   | 2800-3050                      | 0.3 E              |
| 2500°F            | 1600-1850                  | 4300-4900                      | 0.5 E              |
| 2700°F            | 1500-1900                  | 5100-5450                      | 0.9 E              |

ABRASION LOSS: 6.2 cc after 1500° F

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