

# MILBRO REFRACTORIES, INC.

## MILCAST AZR LC

MILCAST AZR LC is a mullite and alumina-zircon aggregate based, low cement castable. Outstanding thermal shock resistance and high strength, along with low porosity and volume stability, allows MILCAST AZR LC to withstand alkali and glass attack.

|   |                                |
|---|--------------------------------|
| <b>Service Temperature</b>              | <b>3000°F</b>                  |
| <b>Material Required for Estimating</b> | <b>175 lbs./ft<sup>3</sup></b> |
| <b>Mixing Water Required</b>            | <b>2.0-2.5 qt./100lbs</b>      |

### TYPICAL CHEMICAL ANALYSIS ( Calcined Basis )

|                                |      |
|--------------------------------|------|
| Al <sub>2</sub> O <sub>3</sub> | 45.1 |
| SiO <sub>2</sub>               | 33.6 |
| Fe <sub>2</sub> O <sub>3</sub> | 0.7  |
| TiO <sub>2</sub>               | 1.4  |
| ZrO <sub>2</sub>               | 17.2 |
| CaO                            | 1.4  |

### TYPICAL PHYSICAL PROPERTIES

| Temperature<br>°F | Modulus of<br>Rupture, psi | Cold Crushing<br>Strength, psi | Linear change<br>% |
|-------------------|----------------------------|--------------------------------|--------------------|
| 220°F             | 1130                       | 4752                           | 0.1 S              |
| 1500°F            | 1540                       | 7944                           | 0.1 S              |
| 2000°F            | 2748                       | 12588                          | 0.1 S              |
| 2500°F            | 3902                       | 11751                          | 0.1E               |

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