

# MILBRO REFRACTORIES, INC.

## MILCAST SIC PLUS

**MILCAST SIC PLUS** is a high purity, high performance, low cement castable containing an extra high percentage of silicon carbide. Extreme thermal shock and abrasion resistance and extra high strength are properties that allow **MILCAST SIC PLUS** to withstand the most severe service conditions. Though traditionally used in the metal producing industries, **MILCAST SIC PLUS** is an exceptional product choice for risers and precalciners when other products have failed.

<b>Service Temperature</b>	<b>3250° F</b>
<b>Material Required for Estimating</b>	<b>165 lbs./ft<sup>3</sup></b>
<b>Mixing Water Required</b>	<b>2.5-3.0qt./100lbs</b>

### TYPICAL CHEMICAL ANALYSIS

SiC	80.2
Al <sub>2</sub> O <sub>3</sub>	13.0
SiO <sub>2</sub>	4.9
Fe <sub>2</sub> O <sub>3</sub>	0.3
TiO <sub>2</sub>	0.1
CaO	1.4

### TYPICAL PHYSICAL PROPERTIES (Fired under reducing conditions)

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	3550	11800	0.1 S
1500°F	3725	12500	0.1 S

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.