

# MILBRO REFRACTORIES, INC.

## MILCOTE SIC

A high purity, silicon carbide, dry mortar. Heat set. *Extremely* resistant to molten metal and slag attack. Excellent abrasion resistance and strength throughout the temperature range. Used for laying Silicon Carbide brick either trowelled, dipped, or as a grout. Outstanding working characteristics.

<b>Service Temperature</b>	<b>3400° F</b>
<b>Material Required for Estimating</b>	<b>375 lbs./M 9 in. equiv.</b>
<b>Mixing Water Required</b>	<b>9.0-10.0 qts/100 lbs.</b>

### TYPICAL CHEMICAL ANALYSIS

SiC	88.3
Al <sub>2</sub> O <sub>3</sub>	3.6
SiO <sub>2</sub>	7.7
Fe <sub>2</sub> O <sub>3</sub>	Trace
TiO <sub>2</sub>	Trace
MgO	Trace

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	800-950	2300-2600	0.1 S
2000°F	900-1100	2550-2800	0.1 S
2500°F	1350-1650	3800-4300	0.1 E
3000°F	1900-2550	5800-6400	0.2 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.