

MILBRO REFRACTORIES, INC.

MILCOTE SIC A

A high purity, silicon carbide, dry mortar. Air setting. *Extremely* resistant to molten metal and slag attack. High strength throughout the temperature range. Volume stability at room temperature eliminates cracks when laying carbon block and packing joints in potline operations. Excellent troweling characteristics when laying silicon carbide brick.

Service Temperature	3400° F
Material Required for Estimating	375 lbs./M 9 in. equiv.
Mixing Water Required	4.5-5.0 qts/50 lbs.

TYPICAL CHEMICAL ANALYSIS

SiC	88.2
Al ₂ O ₃	3.2
SiO ₂	8.2
Fe ₂ O ₃	Trace
TiO ₂	Trace
Alkalies	0.3

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	800-950	2300-2600	0.0
1000°F	750-1000	2200-2500	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.