

MILBRO REFRACTORIES, INC.

MILCAST SIC LC

MILCAST SIC LC is a high purity, high performance, low cement silicon carbide castable. Outstanding strength, thermal shock and abrasion resistance combined with it's high density and high heat transfer value, combat slagging and alkali build up on the working surface. MILCAST SIC LC is used in extreme alkali environments such as risers, pre-calciners and burner pipe tips.

Service Temperature	3200° F
Material Required for Estimating	172 lbs./ft³
Mixing Water Required	2.5-3.0qt./100lbs

TYPICAL CHEMICAL ANALYSIS

SiC	65.2
Al ₂ O ₃	25.9
SiO ₂	5.8
Fe ₂ O ₃	0.7
TiO ₂	0.8
CaO	1.4

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
1500°F	3475	11300	0.1 S
2000°F	3600	10150	0.2 S
2500°F	4200	14700	0.2 S
3000°F	5100	1785	0.5 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.