

MILBRO REFRACTORIES, INC.

MILCAST 70 SIC

A high alumina, high density, low porosity castable. Outstanding hot strengths and erosion resistance are a direct result of reduced cement content since CaO acts as a solvent in conventional castables. Low cement content also means less water required for mixing and less dry out time. Since particle packing is with such high density, high thermal strengths and thermal volume stability is achieved.

Service Temperature	3000° F
Material Required for Estimating	175 lbs./ft³
Mixing Water Required	2.5 qt./100lbs

TYPICAL CHEMICAL ANALYSIS

SIC	18.0
Al ₂ O ₃	68.6
SiO ₂	6.8
Fe ₂ O ₃	0.6
TiO ₂	1.6
CaO	1.4
Alkalies	0,1

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	3200	10100	0.0
1500°F*	3325	9500	0.2 S

*Fired in reduced atmosphere