

MILBRO REFRACTORIES, INC.

MILCAST 70 LC

A high alumina, high density, low porosity, low cement 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 means less water required for mixing and less dry out time. Since particle packing is with such high density, high thermal strengths and thermal stability is achieved.

Service Temperature	3100°F
Material Required for Estimating	160 lbs./ft³
Mixing Water Required	3.0-3.25 qt./100lbs

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	70.8
SiO ₂	27.8
Fe ₂ O ₃	0.8
TiO ₂	1.6
MgO	0.1
CaO	1.7
Alkalies	0.2

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	2800	8300	0.0
1500°F	2750	10900	0.1 S
2000°F	4150	13400	0.2 S
2500°F	3700	11900	0.5 E

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.