

MILBRO REFRACTORIES, INC.

MILCAST 85 LC

A high strength, low cement, high alumina castable with outstanding strength and abrasion resistance. Select grain sizing allows MILCAST 85 LC to exhibit higher density and lower porosity. Consequently, the abrasion resistance and thermal shock properties are superior. Ideal for uses in direct contact with molten metals and slags.

Service Temperature	3100° F
Material Required for Estimating	172 lbs./ft³
Mixing Water Required	3.0 qt./100lbs

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	84.1
SiO ₂	10.8
Fe ₂ O ₃	0.9
TiO ₂	2.1
MgO	0.1
CaO	1.7
Alkalies	0.1

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	2000	9000	0.0
1500°F	2350	10200	0.2 S
2000°F	2200	9500	0.2 S
2500°F	1800	9800	0.4 S
3000°F	5500	15000	0.9 S

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.