

MILBRO REFRACTORIES, INC.

MILCAST AZR SIC

MILCAST AZR SIC is a mullite, alumina-zircon, low cement castable with silicon carbide addition that displays outstanding thermal shock characteristics. The addition of silicon carbide enhances the abrasion resistance and non-wetting properties thus, reduces alkali build-up and increased service life in risers & pre-calciners, in the cement industry.

Service Temperature	3000° F
Material Required for Estimating	172 lbs./ft³
Mixing Water Required	2.0-2.5 qt./100lbs

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	45.1
SiO ₂	33.6
Fe ₂ O ₃	0.7
TiO ₂	1.4
ZrO ₂	17.2
CaO	1.4
SIC	10.0 (Added)

Abrasion Loss 7.4 g/cc @ 1500° F

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	1130	4752	0.1 S
1500°F	1540	7944	0.1 S
2000°F	2748	12588	0.1 S
2500°F	3902	11751	0.1E

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