

MILBRO REFRACTORIES, INC.

MILPLAS SIC

A high purity, silicon carbide plastic. Extremely workable. Air setting. Excellent abrasion and erosion resistance. Non wetting. Excellent strength throughout the temperature range.

Service Temperature	3400° F
Melting Point	3475° F
Material Required for Estimating	178 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

SiC, C	89.5
Al ₂ O ₃	5.4
SiO ₂	3.6
Fe ₂ O ₃	0.8
TiO ₂	0.5
MgO	trace

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	500-600	1550-1850	0.2 S
2000°F	450-650	1400-1700	0.1 S
2500°F	750-950	3000-3500	0.1 E
3000°F	600-900	2650-3100	0.1 E

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.