

# MILBRO REFRACTORIES, INC.

## MILPLAS SCP

A high purity, silicon carbide, chemically bonded plastic. Superior abrasion and erosion resistance. Excellent in areas where extreme erosion and metal velocity are constant problems. Ideal as a replacement for chrome-alumina plastics which pose environmental concerns. Also available in a finer grain version, MILPLAS SCP F.

<b>Service Temperature</b>	<b>3000° F</b>
<b>Melting Point</b>	<b>3175° F</b>
<b>Material Required for Estimating</b>	<b>155 lbs./ft<sup>3</sup></b>

### TYPICAL CHEMICAL ANALYSIS

SiC, C	49.3
Al <sub>2</sub> O <sub>3</sub>	40.0
SiO <sub>2</sub>	6.0
Fe <sub>2</sub> O <sub>3</sub>	0.4
TiO <sub>2</sub>	0.1
MgO	trace
P <sub>2</sub> O <sub>5</sub>	2.8

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
600° F	425	1200	0.9 S
1500° F	410	1925	1.0 S
2000° F	575	2500	0.8 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.