

# MILBRO REFRACTORIES, INC.

## SUPER-FLOW<sup>®</sup> AZ SIC

**SUPER-FLOW<sup>®</sup> AZ SIC** is a mullite, zirconia, free flowing castable with silicon carbide addition for use to 3100°F. It can be pumped or vibration-cast into place. **SUPER-FLOW<sup>®</sup> AZ SIC** has out-standing thermal shock properties, abrasion resistance, and non-wetting characteristics. Reduces alkali build-up and increases the service life in risers, calciners & pre-heaters in the cement industry.

<b>Service Temperature</b>	<b>3100°F</b>
<b>Material Required for Estimating</b>	<b>168 lbs./ft<sup>3</sup></b>
<b>Mixing Water Required</b>	<b>3 ¼ - 3 ½ qt./100 lbs.</b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	67.5
ZrO <sub>2</sub>	12.8
Si O <sub>2</sub>	27.4
Fe <sub>2</sub> O <sub>3</sub>	0.6
TiO <sub>2</sub>	1.3
MgO	0.1
CaO	1.3
SiC	10.0 (Added)

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Hot Modulus of Rupture, psi	Abrasion Resistance g/cc	Linear change %
220°F			0.1 S
1500°F	3000	7.4	0.2 S
2500°F			0.4 S

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.