

# MILBRO REFRACTORIES, INC.

## SUPER-FLOW® AZ

SUPER-FLOW® AZ is an alumina–zircon aggregate based, free flowing, bw cement castable for use to 3100°F. It can be pumped into place without vibration. SUPER-FLOW® AZ has out-standing thermal shock and abrasion resistance as well as resistance to alkali attack.

<b>Service Temperature</b>	<b>3100° F</b>
<b>Material Required for Estimating</b>	<b>164 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

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Hot Modulus of Rupture, psi	Abrasion Resistance g/cc	Linear change %
220°F			0.1 S
1500°F	2800	10.4	0.2 S
2500°F			0.4 S
2910°F			0.7 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.