

# MILBRO REFRACTORIES, INC.

## ALUCAST

A high purity, high alumina, castable with good strength, volume stability & resistance to thermal shock. This product's high refractoriness is a result of the combination of a high purity binder and highly refractory aggregates. Superior resistance to molten aluminum penetration and outstanding non-wetting characteristics make this product an excellent choice for aluminum melting and holding applications. Typical applications are aluminum melting and holding furnace lower sidewalls, cruces, launders, and over the road ladles.

<b>Service Temperature</b>	<b>2750° F</b>
<b>Material Required for Estimating</b>	<b>138 lbs./ft<sup>3</sup></b>
<b>Mixing Water Required</b>	<b>5.6-6.0 qt./100lbs</b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	77.8
SiO <sub>2</sub>	4.1
Fe <sub>2</sub> O <sub>3</sub>	2.5
TiO <sub>2</sub>	1.6
MgO	0.3
CaO	12.7

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Thermal Cond. BTU/sq.ft/hr/in./° F	Linear change %
220°F	900-1200	-	0.0
1000°F	850-1000	8.1	0.1 S
1500°F	900-1000	8.0	0.2 S
2000°F	850-1100	7.9	0.1 S
2500°F	1000-1250	8.0	0.1 E

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.