

# MILBRO REFRACTORIES, INC.

## MILCAST AL

A hydraulic setting castable exhibiting superior aluminum penetration resistance and excellent non-wetting characteristics. Resistance to penetration makes this product an excellent choice for application in cruces, over-the-road ladles, launders and aluminum holding furnaces

Service Temperature	3100°F
Material Required for Estimating	140 lbs./ft <sup>3</sup>
Mixing Water Required	4.5 – 5.0 qt./100lbs

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	58.0
SiO <sub>2</sub>	35.1
Fe <sub>2</sub> O <sub>3</sub>	1.4
TiO <sub>2</sub>	1.8
MgO	0.2
CaO	3.5

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	700-900	3000-3500	0.1 S
1000°F	400-500	2000-2500	0.1 S
1500°F	400-500	2000-2500	0.2 S
2000°F	350-500	1500-1900	0.5 S
2500°F	900-1200	3200-3500	0.1 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.