

# MILBRO REFRACTORIES, INC.

## MILCAST 30

A low iron hydraulic setting castable exhibiting low shrinkage, volume stability resistance to corrosive fuels, reducing atmospheres and carbon disintegration. Typical applications are soaking pit covers, cooler walls in rotary kilns and linings in forge furnaces.

<b>Service Temperature</b>	<b>3000° F</b>
<b>Material Required for Estimating</b>	<b>140 lbs./ft<sup>3</sup></b>
<b>Mixing Water Required</b>	<b>4.0-4.5 qt./100lbs</b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	58.8
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	1500-2900	0.5 S
2500°F	900-1200	3200-3400	0.1 E
2750°F	1300-1500	3400-3800	0.4 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.