

# MILBRO REFRACTORIES, INC.

## MILCAST 70

A high quality, high alumina, castable. Typical applications are aluminum furnaces, rotary kilns, forge and heating furnaces. MILCAST 70 is volume stable and resistant to thermal shock and carbon disintegration.

<b>Service Temperature</b>	<b>3200°F</b>
<b>Material Required for Estimating</b>	<b>150 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>	70.0
SiO <sub>2</sub>	21.7
Fe <sub>2</sub> O <sub>3</sub>	1.3
TiO <sub>2</sub>	2.7
MgO	0.1
CaO	3.5
Alkalies	0.2

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	1000-1200	3500-4000	0.0
1000°F	800-100	3000-3500	0.1 S
1500°F	700-900	2600-3100	0.1 S
2000°F	900-1100	3100-3500	0.2 S
2500°F	1000-1200	3300-3700	0.1 S
2900°F	1200-1500	4200-4500	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.