

# MILBRO REFRACTORIES, INC.

## MILCAST 90 LCS

MILCAST 90 LCS is a low cement castable containing high alumina-spinel. It was designed to be installed by pumping or vibra-casting and demonstrates high refractoriness, excellent hot strength and resistance to molten steel. Recommended for applications in steel ladles well blocks, porous plug blocks, impact pads and electric furnace runners.

<b>Service Temperature</b>	<b>3300° F</b>
<b>Material Required for Estimating</b>	<b>190 lbs./ft<sup>3</sup></b>
<b>Mixing Water Required</b>	<b>5%-6%</b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	92
MgO	5.5
CaO	0.7

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	1300-1450	4200-4500	0.0
1500°F	1000-1150	4000-4350	0.0
2500°F	4350-4650	10900-11200	0.1 E
2750°F	4400-4700	12000-12400	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.