

MILBRO REFRACTORIES, INC.

MILCAST LW 31

A 3100° F., lightweight refractory castable. Ideal for applications requiring high service limit and superior strength throughout the temperature range, yet providing minimal thermal pollution. Lower density means less material required in a given installation. Excellent thermal shock properties.

Service Temperature	3100° F
Material Required for Estimating	91 lbs./ft³
Mixing Water Required	6.5-7.5 qt./80lbs

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	60.4
SiO ₂	33.2
Fe ₂ O ₃	0.7
TiO ₂	0.5
MgO	0.1
CaO	5.1

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Cold Crushing Strength, psi	Linear change %	Thermal Cond. BTU/sq.ft/hr/in./° F
220°F	1700-2200	0.1 S	500°F 3.1
1500°F	1400-1900	0.1 S	1000°F 3.5
2000°F	1600-2200	0.2 S	1500°F 3.7
2500°F	2300-2800	0.1 E	2000°F 4.2
2700°F	2500-3100	0.2 E	2500°F 4.7

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.