

MILBRO REFRACTORIES, INC.

MILBRO PUTTY

A fine grain, high purity, chemically bonded, patching refractory. High hot strengths at elevated temperatures, low porosity and volume stability are essential features. It's high plasticity makes MILBRO PUTTY ideal for patching and maintaining monolithic linings. Used in such areas as electric furnace runners, AOD hoods, skid rail pipe and cross-overs, ladle patching and aluminum launderers and troughs.

Service Temperature	3200° F
Melting Point	3325° F
Material Required for Estimating	170 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	80.6
SiO ₂	10.5
Fe ₂ O ₃	2.1
TiO ₂	2.2
MgO	0.3
CaO	0.2
P ₂ O ₅	3.9

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	500-700	1600-2100	0.4 S
1500°F	400-500	1500-2000	0.2 S
2000°F	600-800	2200-2600	0.2 S
2500°F	1000-1400	3500-4000	0.4 E
3000°F	900-1300	3450-3800	1.0 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.