

MILBRO REFRACTORIES, INC.

VIBEPLAS 31

A high alumina, chemically bonded, vibratable plastic. It exhibits high hot strengths throughout the temperature range. High refractoriness, high density and low porosity are additional features. This product is resistant to ferrous and non-ferrous metal penetration and the corrosive slags. Typical applications include linings in pouring ladles, desulphurizing vessels, teapot ladles, tundishes and burner blocks in high temperature applications.

Service Temperature	3100° F
Melting Point	3275° F
Material Required for Estimating	155 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	60.5
SiO ₂	34.1
Fe ₂ O ₃	0.6
TiO ₂	0.6
MgO	0.1
CaO	0.1
P ₂ O ₅	3.4

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
500°F	750-850	2300-2600	0.2 S
2000°F	1700-2000	5500-6200	0.7 E
2500°F	2500-2850	7500-9000	1.8 E
3000°F	2200-2550	7000-7600	0.5 E