

# MILBRO REFRACTORIES, INC.

## MILPLAS AL

A high purity, high alumina, chemically bonded plastic refractory. Developed specially for the aluminum industry, MILPLAS AL exhibits excellent resistance to aluminum penetration. High density and low porosity keeps dross adherence to a minimum. Excellent strength throughout the temperature range. Typical applications include hearths and lower side walls in aluminum melting and holding furnaces.

<b>Service Temperature</b>	<b>3000° F</b>
<b>Melting Point</b>	<b>3125° F</b>
<b>Material Required for Estimating</b>	<b>175 lbs./ft<sup>3</sup></b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	82.3
SiO <sub>2</sub>	8.9
Fe <sub>2</sub> O <sub>3</sub>	1.9
TiO <sub>2</sub>	2.3
MgO	0.3
CaO	0.2
P <sub>2</sub> O <sub>5</sub>	3.6

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	600-850	1900-2400	0.1 S
2000°F	900-1300	2600-3000	0.1 S
2500°F	1100-1550	3300-4200	0.2 E
3000°F	1450-1700	4450-4900	0.3 E

All data shown is based on average of standard ASTM procedures, unless otherwise indicated. Results are subject to reasonable deviation and should not be used for specification purposes.