

# MILBRO REFRACTORIES, INC.

## MILPLAS SUPER

A super duty, heat setting, plastic refractory. Excellent resistance to thermal spalling and mechanical shock, while volume stability and excellent load bearing properties gives MILPLAS SUPER AS, distinct advantages in a variety of high temperature applications. These applications include upper sidewalls in aluminum melting and/or holding furnaces, boiler & forge furnace linings, as well as linings for incinerators, dryers, heaters and combustion chambers.

<b>Service Temperature</b>	<b>3000° F</b>
<b>Melting Point</b>	<b>3125° F</b>
<b>Material Required for Estimating</b>	<b>145 lbs./ft<sup>3</sup></b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	45.6
SiO <sub>2</sub>	48.8
Fe <sub>2</sub> O <sub>3</sub>	1.4
TiO <sub>2</sub>	1.8
MgO	0.1
CaO	0.1

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	100-200	400-800	0.5 S
1500°F	150-200	550-850	0.4 S
2000°F	350-450	1100-1500	0.6 S
2500°F	500-550	1800-2200	0.5 E
2910°F	1000-1200	3200-4200	1.3 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.