

# MILBRO REFRACTORIES, INC.

## MILPLAS 90 PB

A high purity, high alumina, chemically bonded plastic refractory. Exhibits excellent hot strengths, volume stability and resistance to ferrous and non-ferrous metal penetration and corrosive slags. Typical applications include hearths of reheat furnaces, aluminum melting and holding furnaces, nose rings and patching linings in rotary kilns.

<b>Service Temperature</b>	<b>3300° F</b>
<b>Melting Point</b>	<b>3375° F</b>
<b>Material Required for Estimating</b>	<b>180 lbs./ft<sup>3</sup></b>

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub>	89.6
SiO <sub>2</sub>	5.5
Fe <sub>2</sub> O <sub>3</sub>	0.1
TiO <sub>2</sub>	0.3
MgO	0.1
CaO	0.6
P <sub>2</sub> O <sub>5</sub>	3.7

### TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	1200-1600	3800-4200	0.3 S
1500°F	2000-2400	6300-6800	0.2 S
2000°F	3000-3500	9400-9800	0.1 S
2500°F	4500-5000	12500-13000	0.4 S
3000°F	2400-2800	7200-7800	0.1 S

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.