MILBRO REFRACTORIES, INC.

MILPLAS 85 PB

MILPLAS 85 PB is a high purity, high alumina, chemically bonded plastic refractory. MILPLAS 85 PB exhibits high hot strengths throughout the temperature range. High density and low porosity make it resistant to ferrous and non-ferrous metal penetration and the effect of corrosive slags.Typical applications include hearths of reheat furnaces, soaking pit walls and bottoms, forge furnace hearths and lower side walls, hearths and ramps of aluminum melting and holding furnaces.

Service Temperature	**3200°F**
Melting Point	**3350°F**
Material Required for Estimating	**170 lbs./ft^3**

TYPICAL CHEMICAL ANALYSIS

Al_20_3	84.6
SiO_2	6.5
Fe_2O_3	2.1
TiO_2	2.2
MgO	0.3
CaO	0.2
P_2O_5	3.9

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	600-800	2000-2400	0.2 S
1500°F	550-650	1900-2300	0.2 S
2000°F	950-1400	3100-3800	0.1 S
2500°F	1200-1600	4100-4600	0.4 E
3000°F	1300-1500	3900-4300	0.7 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.