

MILBRO REFRACTORIES, INC.

MILPLAS 80 PB

A high purity, high alumina, chemically bonded plastic refractory. Excellent workability Good strength 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 lower side walls, of aluminum melting and holding furnaces, delta sections in electric arc furnaces, wear pads in hot metal mixers, slag lines in soaking pits burner ports and hearths in reheat furnaces.

Service Temperature	3200° F
Melting Point	3325° F
Material Required for Estimating	170 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	79.4
SiO ₂	11.8
Fe ₂ O ₃	2.0
TiO ₂	2.5
MgO	0.3
CaO	0.2
P ₂ O ₅	3.5

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	550-800	1800-2300	0.1 S
2000°F	750-1300	2600-3000	0.1 S
2500°F	1000-1550	3300-4300	0.5 E
3000°F	1350-1650	4450-4900	0.9 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.