

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.

Service Temperature	3300° F
Melting Point	3375° F
Material Required for Estimating	180 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	89.6
SiO ₂	5.5
Fe ₂ O ₃	0.1
TiO ₂	0.3
MgO	0.1
CaO	0.6
P ₂ O ₅	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.