

MILBRO REFRACTORIES, INC.

MILPLAS 85 PBF

A fine grained, high purity, chemically bonded plastic refractory. MILPLAS 85 PBF exhibits high hot strengths at elevated temperatures, low porosity and volume stability are essential features. It's high plasticity makes MILPLAS 85 PBF ideal for patching monolithic linings. It is used in such areas as electric furnace runners, AOD hoods, skid rail pipe, crossovers and ladle patching.

Service Temperature	3200° F
Melting Point	3350° F
Material Required for Estimating	180 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	84.6
SiO ₂	6.5
Fe ₂ O ₃	2.1
TiO ₂	2.2
MgO	0.3
CaO	0.2
P ₂ O ₅	3.9

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	500-700	1600-2100	0.4 S
1500°F	400-500	1500-2000	0.2 S
2000°F	600-800	2200-2600	0.1 S
2500°F	1000-1400	3500-4000	0.4 E
3000°F	900-1300	3450-3800	1.0 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.