

MILBRO REFRACTORIES, INC.

MILPLAS 85 G

A high alumina, graphite plastic. MILPLAS 85 G has been designed to resist molten metal and slag attack in the most severe conditions. Typical applications include troughs, runners and skimmers for both blast furnaces and high production cupolas.

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|---|--------------------------------|
| Service Temperature | 3200° F |
| Melting Point | 3275° F |
| Material Required for Estimating | 168 lbs./ft³ |

TYPICAL CHEMICAL ANALYSIS

| | |
|--------------------------------|------|
| Al ₂ O ₃ | 84.7 |
| SiO ₂ | 12.0 |
| Fe ₂ O ₃ | 1.2 |
| TiO ₂ | 1.9 |
| MgO | 0.1 |
| CaO | 0.1 |

TYPICAL PHYSICAL PROPERTIES

| Temperature °F | Modulus of Rupture, psi | Cold Crushing Strength, psi | Linear change % |
|-------------------|----------------------------|--------------------------------|--------------------|
| 220°F | 350-500 | 1200-1600 | 0.1 S |
| 2000°F | 550-850 | 2250-2700 | 0.2 S |
| 2500°F | 600-900 | 2450-2900 | 0.1 E |
| 3000°F | 450-750 | 2100-2550 | 0.2 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 specificat ion purposes.