

MILBRO REFRACTORIES, INC.

MILCAST 70

A high quality, high alumina, castable. Typical applications are aluminum furnaces, rotary kilns, forge and heating furnaces. MILCAST 70 is volume stable and resistant to thermal shock and carbon disintegration.

Service Temperature	3200°F
Material Required for Estimating	150 lbs./ft³
Mixing Water Required	4.0-4.5 qt./100lbs

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	70.0
SiO ₂	21.7
Fe ₂ O ₃	1.3
TiO ₂	2.7
MgO	0.1
CaO	3.5
Alkalies	0.2

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
220°F	1000-1200	3500-4000	0.0
1000°F	800-100	3000-3500	0.1 S
1500°F	700-900	2600-3100	0.1 S
2000°F	900-1100	3100-3500	0.2 S
2500°F	1000-1200	3300-3700	0.1 S
2900°F	1200-1500	4200-4500	0.1 E

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.