

PRODUCT DATA



Brand Name:

FURNACON™ 70

70% ALUMINA LOW CEMENT CASTABLE FOR ALUMINUM CONTACT

Recommended Service Temperature Limit For

:Aluminum Non-Wetting..... 2200°F
:All Other Applications..... 3000°F

Water Required for Mixing

:Vibration..... 4.0 - 5.5%

Material Required Per Ft³..... 162-167 lb

Packaging..... 55 lb bag

Bulk Density (pcf)

After 1500°F (815°C) 163 (2608 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 12,000 to 17,000 (840-1190 kg/cm²)

Permanent Linear Change (%)

Green to 1500°F (815°C) 0.0 to -0.4
230°F (110°C) to 1500°F (815°C) 0.0 to -0.3

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	67.8%
SiO ₂	25.8
Fe ₂ O ₃	0.9
TiO ₂	2.2
CaO	1.2
MgO	0.1
Alkalies	0.1
Other	1.9

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU-in/hr-ft² °F)	W/mK
1000.....	17.2	2.50
1500.....	17.1	2.48
2000.....	17.6	2.55
2500.....	17.6	2.55

Brand Code 0870, Shelf Life 12 Months

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions (using standard rectangular shapes), and should not be considered to be gua

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