

**SUPER HEATCRETE 33 GM**  
**HIGH PURITY ALUMINA GUN MIX**

PHYSICAL PROPERTIES

This specification applies to samples gunned under controlled conditions in accordance with ASTM C-903. (Samples gunned on a vertical (80 – 90°) surface at minimum water necessary for proper consolidation, gun pressure (40 – 45 psi) with 50 ft. of hose, gunned at a 90° angle to the gunned surface with proper technique.)

Maximum Service Temperature	3300°F
Lbs. Required Dry Mix per Cu. Ft. (not counting rebound)	167 lbs.
% Water by Weight Required for Gunning	Approx. 9.5%
Bulk Density After Drying at 230°F	170 lbs./cu. ft.
Cold Crushing Strength After Firing to 1500°F	4500 – 6500 psi
MOR After Drying at 230°F	900 – 1300 psi
<u>Permanent Linear Change</u>	
After Drying at 230°F	Negligible
After Heating to 1500°F	-0.0 to -0.7%
After Heating to 3100°F	-0.1 to -0.8%

CHEMICAL ANALYSIS

Silica	[SiO <sub>2</sub> ]	>0.1%
Alumina	[Al <sub>2</sub> O <sub>3</sub> ]	95.0%
Iron Oxide	[Fe <sub>2</sub> O <sub>3</sub> ]	0.1%
Lime	[CaO]	4.8%

THERMAL CONDUCTIVITY BTU/SQ.FT./HR./°F/IN.

At 500°F	12.5
At 1500°F	10.3
At 2500°F	10.6

NOTE: All data subject to reasonable deviation and should not be used as field specifications. Test results are highly dependent on gunning parameters including water, air pressure, pre-dampening and technique.

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