

PRODUCT

**BLACK JACK GUN MIX**

LOWER CEMENT SILICON CARBIDE CASTABLE

**REFRACTORIES**

**TECHNICAL DATA**

PHYSICAL PROPERTIES

Maximum Service Temperature	2700°F
ASTM C-401	Class D
Lbs. Required Dry Mix Per Cu. Ft.	155 lbs.
% Water by Weight Required for Gunning	Approx. 8%
Bulk Density After Drying at 230°F	160 lbs./cu.ft.
MOR After Drying at 230°F	700 - 1000 psi
MOR After Firing at 1500°F	700 - 1000 psi
MOR at 2250°F	500 - 800 psi

Permanent Linear Change

After Drying at 230°F	Negligible
After Heating to 1500°F	+/- 0.2%
After Heating to 2550°F	0.0 to -0.4%

CHEMICAL ANALYSIS

Silicon Carbide [SiC]	83.2%
Silica [SiO <sub>2</sub> ]	5.2%
Alumina [Al <sub>2</sub> O <sub>3</sub> ]	8.6%
Iron Oxide [Fe <sub>2</sub> O <sub>3</sub> ]	Trace
Lime [CaO]	2.8%
Other (alkalies)	0.2%

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

At 500°F	50.0
At 1000°F	46.2
At 1500°F	48.5

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.

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**MT. SAVAGE**

**SPECIALTY REFRACTORIES COMPANY** • Pittsburgh, Pa. 15127 •