

PRODUCT
BLACK JACK 50

**LOW CEMENT, SELF FLOWING SILICON CARBIDE
CASTABLE, PUMP MIX, SHOTCRETE**

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2700°F
ASTM C-401	Class D
Lbs. Required Dry Mix per Cu. Ft.	152lbs.
% Water by Weight Required for Casting	Approx. 6%
Bulk Density After Drying at 230°F	155 lbs./cu.ft.
<u>Modulus of Rupture</u>	
MOR After Drying at 230°F	1500 - 2000 psi
MOR at 1500°F	2700 - 3300 psi
MOR at 2250°F	500 - 700 psi
<u>Permanent Linear Change</u>	
After Drying at 230°F	Negligible
After Heating to 1500°F	0.0 to -0.2%
After Heating to 2550°F	+0.3 to +0.7
<u>Cold Crushing Strength</u>	
After Drying at 230°F	5000 - 7000 psi
After Firing to 1500°F	8000 - 10000 psi
<u>Abrasion Loss</u>	
After 1500°F	5 - 8 cc

CHEMICAL ANALYSIS

Silicon Carbide [SiC]	51.5%
Silica [SiO ₂]	22.7%
Alumina [Al ₂ O ₃]	23.6%
Iron Oxide [Fe ₂ O ₃]	0.3%
Lime [CaO]	1.9%

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

At 500°F	33.3
At 1000°F	30.7
At 1500°F	32.7

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

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MT. SAVAGE

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