

PRODUCT

BLACK JACK 60 SC
LOW CEMENT SILICON CARBIDE
SHOTCRETE MIX

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 Casting	Approx. 5.8%
Bulk Density After Drying at 230°F	160 lbs./cu.ft.
<u>Modulus of Rupture</u>	
After Drying at 230°F	1300 – 1800 psi
Hot MOR at 1500°F	2800 – 3500 psi
Hot MOR at 2550°F	600 – 1000 psi
<u>Cold Crushing Strength</u>	
After Drying at 230°F	5000 – 7000 psi
After Firing to 1500°F	8000 – 14000 psi
<u>Permanent Linear Change</u>	
After Drying at 230°F	Negligible
After Heating to 1500°F	-0.0 to -0.3
After Heating to 2550°F	+0.2 to +1.0
Abrasion Loss – After 1500°F	5 – 8 cc

CHEMICAL ANALYSIS

Silicon Carbide	[SiC]	60.3%
Silica	[SiO ₂]	12.0%
Alumina	[Al ₂ O ₃]	25.2%
Iron Oxide	[Fe ₂ O ₃]	0.3%
Lime	[CaO]	1.9%

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

At 500°F	38.5
At 1000°F	35.4
At 1500°F	37.4

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

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