

PRODUCT

BLACK JACK 30
LOW CEMENT SILICON CARBIDE CASTABLE

REFRACTORIES

TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature	2700°F
Lbs. Required Dry Mix per Cu. Ft.	155 lbs.
% Water by Weight Required for Casting (approx.)	6%
Bulk Density After Drying at 230°F	160 lbs./cu.ft.
<u>Modulus of Rupture</u>	
After Drying at 230°F	1500 – 2000 psi
Hot MOR at 1500°F	2800 – 3500 psi
Hot MOR at 2550°F	300 – 600 psi
<u>Cold Crushing Strength</u>	
After 1500°F	8500 – 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 -0.6

CHEMICAL ANALYSIS

Silicon Carbide	[SiC]	29.9%
Silica	[SiO ₂]	23.0%
Alumina	[Al ₂ O ₃]	43.9%
Iron Oxide	[Fe ₂ O ₃]	0.6%
Lime	[CaO]	1.9%

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

At 500°F	23.0
At 1000°F	21.4
At 1500°F	23.2

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

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