PRODUCT

BLACK JACK RAM 80 SILICON CARBIDE PHOS BONDED PLASTIC

REFRACTORIES TECHNICAL DATA

PHYSICAL PROPERTIES

Maximum Service Temperature 2700°F

Lbs. Required per Cu. Ft. 162 lbs./cu.ft.

Bulk Density After Drying at 230°F 157 lbs./cu.ft.

Hot Modulus of Rupture

HMOR at 1500°F 2000 – 2400 psi

HMOR at 2550°F 1000 – 1400 psi

Cold Crushing Strength After 1500°F 2500 – 4000 psi

Permanent Linear Change

After Drying at 230°F 0.0 to -0.8%

After Heating to 1500°F -0.0 to -0.2%

After Heating to 2550°F 0.0 to +0.8%

CHEMICAL ANALYSIS

Silicon Carbide	[SiC]	77.6%
Silica	[SiO ₂]	5.5%
Alumina	[Al ₂ 0 ₃]	10.8%
Iron Oxide	[Fe ₂ O ₃]	0.2%
Phosphorous Pentoxide	[P ₂ O ₅]	4.3%
Trace Minerals		1.6%

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

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