

GREENCAST[®] 94 G

Product Data

Ref:28/19/03/13

Description: 1870°C 94% alumina, hydraulic bonded gunning refractory.

Features: ● High purity and strength.

● Excellent abrasion resistance.

Uses: ● High Temperature Cyclones.

● Ladles for iron, copper, brass and nickel.

● Upper Case Sections of Vertical Channel Induction Furnaces.

● Secondary Reformer Sidewalls, Applications with high hydrogen atmospheres.

● Kiln Burner Pipe Linings and many similar applications.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	0.1%
Alumina - Al ₂ O ₃	93.3%
Titania - TiO ₂	0.1%
Iron Oxide - Fe ₂ O ₃	0.1%
Lime - CaO	6.1%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.4%

Physical Properties

	Gunned
Maximum Recommended Temperature	1870°C
Quantity Required	2340 Kgs/m ³
Bulk Density	Kgs/m ³
After Heating at 105°C	2530 - 2630
After Heating at 815°C	2210 - 2450
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	7.0 - 14.0
After Heating at 815°C	5.0 - 9.0
After Heating at 1095°C	5.0 - 9.0
After Heating at 1370°C	5.0 - 9.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	27.6 - 55.2
After Heating at 815°C	26.2 - 55.9
After Heating at 1370°C	41.4
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	None
After Heating at 815°C	0.0 - 0.3% Shr
After Heating at 1370°C	0.0 - 1.1% Shr
After Heating at 1600°C	0.0 - 0.6% Shr
Thermal Conductivity	W/mK
At 205°C	1.73
At 425°C	1.46
At 650°C	1.36
At 870°C	1.41
At 1095°C	1.64
At 1315°C	2.02

Shelf Life (Under Proper Storage Conditions)

365 days

Note: The test data shown are based on average results of control tests and are subject to normal variation on individual tests. These results cannot be taken as maximum or minimum requirements for specification purposes.

MSDS, Installation Guidelines and Dry Out Schedules are also available.