GREENCAST® 155

Product Data

Ref:91/31/10/12

Description: bauxite based, medium grain size hydraulic bonded refractory.

Features:
- Rugged refractory suitable for use to 1550°C.

Uses:
- Specially suitable for vulnerable areas such as doors, sills and lintels.
- Applications in Iron and Steel, Foundries, Boilers and Non-Ferrous Plants.

Chemical Analysis: Approximate (Calcined Basis)	
Silica - SiO_2	7.0%
Alumina - Al_2O_3	77.0%
Iron Oxide - Fe_2O_3	4.7%
Lime - CaO	7.7%

Physical Properties	Conventional Cast
Maximum Recommended Temperature	1550°C
Quantity Required	2480 Kgs/m^3
Water required for mixing per 100 Kgs	11 Litres Approximately
Bulk Density	Kgs/m^3
After Heating at 105°C	2350 - 2600
After Heating at 815°C	2400 - 2550
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 10.0
After Heating at 815°C	3.0 - 8.0
After Heating at 1095°C	3.0 - 8.0
After Heating at 1370°C	3.0 - 8.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	20.0 - 45.0
After Heating at 815°C	15.0 - 28.0
After Heating at 1095°C	15.0 - 28.0
After Heating at 1370°C	15.0 - 28.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	Less than 0.1% Shr
After Heating at 815°C	0.2% Shr
After Heating at 1095°C	0.3% Shr
After Heating at 1370°C	0.5% Shr
Thermal Conductivity	W/mK
At 205°C	1.00
At 425°C	1.04
At 650°C	1.04
At 870°C	1.11
At 1095°C	1.17
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.