GREENLITE® 45 L PLUS

Product Data

Ref:183/28/02/13

Description: 1370°C Insulating Castable.

Features:
- Contains Greenlite aggregate, which imparts extraordinary strength and features excellent insulating properties.

Uses:
- Backup linings in reheat furnace floors, annealing furnace cartops.
- Fired oil heater stacks.
- Carbon monoxide boiler duct linings.
- Olefins cracking furnace stacks.
- Boilers, and incinerator backup linings.

Chemical Analysis: Approximate (Calcined Basis)	
Silica - SiO_2	40.0%
Alumina -Al_2O_3	43.0%
Titania - TiO_2	1.9%
Iron Oxide - Fe_2O_3	1.7%
Lime - CaO	12.2%
Magnesia - MgO	0.4%
Alkalies - $Na_2O + K_2O$	0.8%

Physical Properties	Conventional Cast
Maximum Recommended Temperature	1370°C
Quantity Required	1140 Kgs/m^3
Water required for mixing per 100 Kgs	27 Litres Approximately
Bulk Density	Kgs/m^3
After Heating at 105°C	1120 - 1360
After Heating at 815°C	1100 - 1260
Modulus of Rupture - ASTM C113 and C865	MPa
After Heating at 105°C	2.5 - 6.0
After Heating at 815°C	1.0 - 3.0
After Heating at 1095°C	2.0 - 4.0
Cold Crushing Strength - ASTM C113 and C865	MPa
After Heating at 105°C	10.0 - 25.0
After Heating at 815°C	6.0 - 12.0
After Heating at 1095°C	6.0 - 12.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	Nil
After Heating at 815°C	0.2% Shr
After Heating at 1095°C	0.5% Shr
After Heating at 1315°C	1.5% Shr
Thermal Conductivity (at the mean temperature of)	W/mK
205°C	0.39
425°C	0.37
595°C	0.37
540°C Cooled from 595°C	0.36
650°C Cooled from 595°C	0.36
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.