SUPERLITE

Product Data

Ref:56/31/10/12

Description: 870°C Hydraulic bonded, insulating refractory.

Features:
- Exhibits excellent insulating properties up to a maximum temperature of 870°C.
- Can be placed by casting or gunning.

Uses:
- A hot face refractory up to 870°C where strength is not an important factor.
- Generally used as back up insulation behind brick or dense castable.

Chemical Analysis: Approximate (Calcined Basis)	
Silica - SiO_2	33.3%
Alumina - Al_2O_3	8.2%
Titania - TiO_2	0.5%
Iron Oxide - Fe_2O_3	4.3%
Lime - CaO	41.8%
Magnesia - MgO	9.7%
Alkalies - $Na_2O + K_2O$	2.2%

Physical Properties	Conventional Cast
Maximum Recommended Temperature	870°C
Quantity Required	480 Kgs/m^3
Water required for mixing per 100 Kgs	130 Litres Approximately
Bulk Density	Kgs/m^3
After Heating at 105°C	450 - 610
After Heating at 815°C	430 - 560
Modulus of Rupture - ASTM C133 and C 865	MPa
After Heating at 105°C	0.5 - 2.0
After Heating at 540°C	0.2 - 1.5
After Heating at 815°C	0.2 - 1.5
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	0.5 - 3.0
After Heating at 540°C	0.5 - 3.0
After Heating at 815°C	0.5 - 3.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0 - 0.2% Shr
After Heating at 540°C	0.5 - 1.0% Shr
After Heating at 815°C	0.5 - 1.5% Shr
Thermal Conductivity	W/mK
At 205°C	0.10
At 425°C	0.13
At 650°C	0.17
Shelf Life (Under Proper Storage Conditions)	180 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.