

# SUPER G



## Product Data

Ref:116/02/07/15

Description: 60% alumina plastic.

- Features:
- Sets hard on drying out.
  - Excellent resistance to vitrification.
  - Resists thermal shock.

- Uses:
- Rugged general purpose product.
  - Aluminium furnace upper side wall and roof.
  - Reheat furnace side wall and roof.
  - Boilers.

### Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO <sub>2</sub>	37.2%
Alumina - Al <sub>2</sub> O <sub>3</sub>	58.5%
Titania - TiO <sub>2</sub>	1.8%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>	1.3%
Lime - CaO	0.2%
Magnesia - MgO	0.2%
Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O	0.8%

### Physical Properties

Maximum Recommended Temperature	1650°C
Quantity Required	2380 Kgs/m <sup>3</sup>
Modulus of Rupture - ASTM C491	MPa
After Heating at 105°C	0.3 - 2.0
After Heating at 815°C	1.0 - 3.0
After Heating at 1400°C	1.0 - 4.0
Cold Crushing Strength - ASTM C113 and C865	MPa
After Heating at 105°C	1.0 - 3.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0.5 - 1.1% Shr
After Heating at 1400°C	0 - 1.5% Exp
After Heating at 1600°C	1.5 - 4.5% Exp
Thermal Conductivity (at the mean temperature of)	W/mK
425°C	0.63
650°C	0.71
870°C	0.87
1095°C	1.05
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.