

# GREENTEC S70



## Product Data

Ref:6/31/10/12

Description: Close grained dense silicon carbide and alumina castable.

- Features:
- Good strength and abrasion resistance.
  - High thermal conductivity.
  - Good resistance to acid slags.

- Uses:
- Demanding abrasion resistant environment.

### Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO <sub>2</sub>	14.1%
Alumina - Al <sub>2</sub> O <sub>3</sub>	19.8%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>	0.2%
Silicon Carbide - SiC	64.6%

### Physical Properties

	Vibration Cast
Maximum Recommended Temperature	1650°C
Quantity Required	2500 Kgs/m <sup>3</sup>
Water required for mixing per 100 Kgs	4.5 - 5.5 Litres Approximately
Bulk Density	Kgs/m <sup>3</sup>
After Heating at 105°C	2500 - 2650
After Heating at 815°C	2465 - 2560
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	10.0 - 15.0
After Heating at 815°C	10.0 - 16.0
After Heating at 1095°C	15.0 - 21.0
After Heating at 1370°C	10.0 - 16.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	60.0 - 105.0
After Heating at 815°C	65.0 - 105.0
After Heating at 1095°C	65.0 - 105.0
After Heating at 1370°C	65.0 - 105.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.1% Shr
After Heating at 815°C	<0.1% Shr
After Heating at 1095°C	0 - 0.2% Shr
After Heating at 1370°C	0 - 0.2% Shr
Thermal Conductivity	W/mK
At 204°C	10.38
At 425°C	8.51
At 650°C	6.78
At 870°C	5.34
At 1095°C	4.04
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.