

KS-4[®] GUNNING PLUS

Ref:67/27/01/14

Product Data

Description: 1400°C Gunning Castable

- Features:
- Fine grained, hydraulic bonded refractory.
 - Good strength.
 - Low rebound, good setting characteristics, excellent flow ability and ideal moisture content.

- Uses:
- Can be used as complete furnace linings or for gunned repairs.
 - Ideal as a general purpose gunning castable.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	42.6%
Alumina - Al ₂ O ₃	42.9%
Titania - TiO ₂	1.4%
Iron Oxide - Fe ₂ O ₃	4.4%
Lime - CaO	7.9%
Magnesia - MgO	0.4%
Alkalies - Na ₂ O + K ₂ O	0.4%

Physical Properties

	Gunned
Maximum Recommended Temperature	1400°C
Quantity Required	1890 Kgs/m ³
Bulk Density	Kgs/m ³
After Heating at 105°C	1890 - 2050
After Heating at 815°C	1830 - 1960
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.1 - 6.9
After Heating at 815°C	2.1 - 4.1
After Heating at 1095°C	1.7 - 3.8
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	15.9 - 31.7
After Heating at 815°C	10.3 - 20.7
After Heating at 1095°C	6.9 - 16.5
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	None
After Heating at 815°C	0.0 - 0.5% Shr
After Heating at 1095°C	0.0 - 0.5% Shr
After Heating at 1260°C	0.5 - 1.5% Shr
After Heating at 1370°C	0.5% Shr - 2.0% Exp
Thermal Conductivity	W/mK
At 205°C	0.74
At 425°C	0.76
At 650°C	0.79
At 870°C	0.82
At 1095°C	0.84
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.