

KS4[®] PLUS

Product Data

Ref:40/28/02/13

Description: Dense, Strong, General-Purpose Castable Refractory for Temperatures up to 1400°C.

Features: ● Good strength.

Uses: ● Complete furnace linings.
● Pouring special shapes.
● Ideal general-purpose castable.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	43.1%
Alumina - Al ₂ O ₃	42.4%
Titania - TiO ₂	1.0%
Iron Oxide - Fe ₂ O ₃	4.4%
Lime - CaO	8.1%
Magnesia - MgO	0.3%
Alkalies - Na ₂ O + K ₂ O	0.4%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1400°C
Quantity Required	1890 Kgs/m ³
Water required for mixing per 100 Kgs	13 - 17 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	1920 - 2130
After Heating at 815°C	1825 - 1920
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 8.0
After Heating at 815°C	1.5 - 4.0
After Heating at 1095°C	1.5 - 4.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	15.0 - 35.0
After Heating at 815°C	10.0 - 16.0
After Heating at 1095°C	8.0 - 13.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.05% Shr
After Heating at 815°C	0 - 0.2% Shr
After Heating at 1095°C	0 - 0.3% Shr
After Heating at 1260°C	0 - 0.5% Shr
After Heating at 1370°C	0 - 2.5% Exp
Thermal Conductivity	W/mK
At 205°C	0.86
At 425°C	0.87
At 650°C	0.88
At 870°C	0.89
At 1095°C	0.92

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.