

KAST-O-LITE[®] 30 LI G PLUS

Product Data

Ref:166/28/02/13

Description: 1650°C High Alumina, Low Iron, Insulating Gunning Castable.

Features:

- Lightweight with moderate density and excellent strengths.
- Low iron, low thermal conductivity, and low rebound.

Uses:

- Aluminum furnace stacks and aluminium holding furnace doors.
- Reheat furnace discharge doors.
- Petrochemical heaters and air heaters.
- Reheat furnace backup linings, sulphur recovery unit backup linings, catalytic reformer backup linings behind stainless steel shrouds.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	35.6%
Alumina - Al ₂ O ₃	56.2%
Titania - TiO ₂	1.2%
Iron Oxide - Fe ₂ O ₃	0.9%
Lime - CaO	5.5%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	0.5%

Physical Properties

	Gunned
Maximum Recommended Temperature	1650°C
Quantity Required	1570 Kgs/m ³
Bulk Density	Kgs/m ³
After Heating at 105°C	1510 - 1700
After Heating at 815°C	1470 - 1630
Modulus of Rupture - ASTM C133 and C 865	MPa
After Heating at 105°C	3.10 - 4.80
After Heating at 815°C	1.40 - 3.80
After Heating at 1095°C	2.10 - 3.10
After Heating at 1370°C	4.14 - 6.90
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	9.70 - 20.70
After Heating at 815°C	6.90 - 17.20
After Heating at 1095°C	6.90 - 17.20
After Heating at 1370°C	6.90 - 20.70
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0.1% Shr
After Heating at 815°C	0.2% Exp - 0.3% Shr
After Heating at 1095°C	0 - 0.4% Shr
After Heating at 1370°C	0 - 0.8% Exp
After Heating at 1600°C	1.8% Exp - 0.5% Shr
Thermal Conductivity	W/mK
At 205°C	0.51
At 425°C	0.55
At 650°C	0.58
At 870°C	0.62
At 1095°C	0.65
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.