

KAST-O-LITE® 25

Product Data

Ref:38/31/10/12

Description: Insulating, Hydraulic Bonded Refractory.

- Features:**
- Suitable for use up to 1370°C.
 - May be cast or gunned.
 - Unique combination of strength and low density.

- Uses:**
- Ideal where uniform temperature, low heat loss and rapid temperature cycling are required.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	38.8%
Alumina - Al ₂ O ₃	37.0%
Titania - TiO ₂	1.4%
Iron Oxide - Fe ₂ O ₃	7.2%
Lime - CaO	13.9%
Magnesia - MgO	0.6%
Alkalies - Na ₂ O + K ₂ O	1.2%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1370°C
Quantity Required	1300 Kgs/m ³
Water required for mixing per 100 Kgs	30 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	1250 - 1450
After Heating at 815°C	1240 - 1345
Modulus of Rupture - ASTM C133 and C 865	MPa
After Heating at 105°C	1.5 - 4.5
After Heating at 815°C	1.0 - 2.5
After Heating at 1095°C	0.5 - 2.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 12.0
After Heating at 815°C	4.0 - 8.0
After Heating at 1095°C	3.0 - 7.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.1% Shr
After Heating at 815°C	0 - 0.5% Shr
After Heating at 1095°C	0.2 - 0.7% Shr
After Heating at 1260°C	0 - 1.5% Shr
Thermal Conductivity	W/mK
At 205°C	0.38
At 425°C	0.41
At 650°C	0.44
At 870°C	0.46
At 1095°C	0.49
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.