

KAST-O-LITE[®] 23 LI PLUS

Product Data

Ref:208/16/12/13

Description: 1260°C Low-Iron Insulating Castable.

- Features:
- Contains low iron to resist detrimental reducing furnace conditions.
 - Can be placed by casting or gunning.

- Uses:
- Flues, stacks and breechings.
 - Controlled atmosphere furnaces.
 - Petrochemical transfer and riser backup linings.
 - Catalytic reforming linings behind stainless steel shrouds.
 - Waste heat boilers.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	54.0%
Alumina - Al ₂ O ₃	33.2%
Titania - TiO ₂	0.7%
Iron Oxide - Fe ₂ O ₃	0.7%
Lime - CaO	9.6%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	1.7%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1260°C
Quantity Required	800 Kgs/m ³
Water required for mixing per 100 Kgs	50 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	800 - 950
After Heating at 815°C	800 - 950
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	0.4 - 2.0
After Heating at 815°C	0.2 - 1.5
After Heating at 1040°C	0.2 - 1.5
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	1.0 - 3.0
After Heating at 815°C	1.0 - 3.0
After Heating at 1040°C	0.5 - 3.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0.3% Shr
After Heating at 815°C	0.8% Shr
After Heating at 1040°C	1.7% Shr
Thermal Conductivity	W/mK
At 205°C	0.24
At 425°C	0.28
At 650°C	0.29
At 870°C	0.29
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.