

LO-ABRADE[®] PLUS



Product Data

Ref:42/21/06/13

Description: Hydraulically bonded castable refractory suitable for temperatures up to 1425°C

- Features:
- Excellent resistance to abrasion and/or erosion.
 - Low iron, making it particularly good for use in specialised atmosphere furnaces.

- Uses:
- Environments where abrasion is encountered from rubbing, grinding, high energy impact or erosion, such as is experienced with high velocity, high temperature, dust laden gases.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	37.8%
Alumina - Al ₂ O ₃	54.8%
Titania - TiO ₂	1.0%
Iron Oxide - Fe ₂ O ₃	0.9%
Lime - CaO	4.8%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.5%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1425°C
Quantity Required	2110 Kgs/m ³
Water required for mixing per 100 Kgs	9 - 11 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2050 - 2250
After Heating at 815°C	2000 - 2150
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	6.0 - 12.0
After Heating at 815°C	5.0 - 11.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	35.0 - 55.0
After Heating at 815°C	25.0 - 45.0
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
Abrasion Loss - ASTM C704	cc
After Heating at 815°C	<12.0
Thermal Conductivity	W/mK
At 205°C	0.81
At 425°C	0.88
At 650°C	0.89
At 870°C	0.89
At 1095°C	0.94
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.

