

LO-ABRADE® G PLUS

Product Data

Ref:180/19/03/13

Description: 1425°C Dense, Abrasion Resistant, Gunning Castable.

- Features:
- Exceptional resistance to abrasion, erosion, rubbing, high-energy impact, high-velocity furnace gases, and high temperatures.
 - Suitable for specialised furnace atmospheres because of its low iron oxide content.
- Uses:
- Linings for cyclones.
 - Duct linings that carry abrasive particles.
 - Cement and lime rotary kiln chain sections.
 - Cement plant preheaters.
 - Alumina flash chambers.
 - Iron ore direct reduction plants.
 - Coal gasification plants.
 - Power plant ash hoppers.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	43.1%
Alumina - Al ₂ O ₃	48.8%
Titania - TiO ₂	1.1%
Iron Oxide - Fe ₂ O ₃	1.0%
Lime - CaO	5.6%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.4%

Physical Properties

	Gunned
Maximum Recommended Temperature	1425°C
Quantity Required	2040 Kgs/m ³
Bulk Density	Kgs/m ³
After Heating at 105°C	2180
After Heating at 815°C	2040
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	11.7
After Heating at 815°C	8.3
After Heating at 1095°C	6.9
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	69.0
After Heating at 815°C	44.8
After Heating at 1095°C	41.4
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	None
After Heating at 815°C	0.0 - 0.2% Shr
After Heating at 1095°C	0.0 - 0.2% Shr
After Heating at 1260°C	0.0 - 0.5% Shr
Thermal Conductivity	W/mK
At 205°C	0.92
At 425°C	0.92
At 650°C	0.92
At 870°C	0.94
At 1095°C	0.95
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.