

GREENKLEEN® 60 PLUS



Product Data

Ref:75/31/10/12

Description: 60% Alumina vibrated low cement castable.

- Features:
- Outstanding abrasion resistance.
 - Excellent thermal shock resistance.
 - High resistance to penetration and corrosion by molten aluminum.
- Uses:
- Aluminum furnaces included: Hearths, Ramps, Sidewalls, Troughs, and Crucibles.
 - FCCU transfer lines.
 - Incinerator working linings and water quench regions.
 - Burner blocks.
 - Forge furnace pier blocks.
 - Cement grate clinker coolers.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	33.3%
Alumina - Al ₂ O ₃	60.3%
Titania - TiO ₂	1.4%
Iron Oxide - Fe ₂ O ₃	0.7%
Lime - CaO	4.0%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.2%

Physical Properties

Maximum Recommended Temperature	Vibration Cast 1650°C
Quantity Required	2450 Kgs/m ³
Water required for mixing per 100 Kgs	5.3 - 6.0 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2450 - 2600
After Heating at 815 C	2400 - 2500
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	8.0 - 15.0
After Heating at 815°C	10.0 - 17.0
After Heating at 1095°C	10.0 - 17.0
After Heating at 1370°C	9.0 - 15.0
Hot Modulus of Rupture	MPa
At 815°C	24.1
Cold Crushing Strength - ASTM C133 and C865	
After Heating at 815°C	60.0 - 100.0
After Heating at 1095°C	60.0 - 100.0
After Heating at 1370°C	60.0 - 95.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 815°C	0 - 0.2% Shr
After Heating at 1370°C	0.5 - 1.0% Exp
Abrasion Loss - ASTM C704	cc
After Heating at 815°C	6.0
Thermal Conductivity	W/mK
At 205°C	1.53
At 425°C	1.53
At 650°C	1.41
At 870°C	1.41
At 1095°C	1.44
At 1315°C	1.44
Shelf Life (Under Proper Storage Conditions)	180 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.

ANH Refractories Europe is part of the ANH group a family of companies incorporating AP Green, Narco and Harbison Walker.

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