

MIZZOU® CASTABLE PLUS



Product Data

Ref:50/27/01/14

Description: 1650°C High Alumina Castable.

- Features:
- Good resistance to numerous different slags.
 - Shows expansion rather than shrinkage after heating to elevated temperatures.
 - Good resistance to thermal spalling.
 - Installer friendly
- Uses:
- Combustion chambers.
 - Low temperature incinerators.
 - Air heaters, boilers, burner blocks.
 - Aluminium furnace upper sidewalls and roof regions.
 - Forge furnaces, and iron foundry ladles.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	35.2%
Alumina - Al ₂ O ₃	59.4%
Titania - TiO ₂	2.0%
Iron Oxide - Fe ₂ O ₃	0.9%
Lime - CaO	2.1%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.2%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1650°C
Quantity Required	2240 Kgs/m ³
Water required for mixing per 100 Kgs	8.0 - 10.0 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2200 - 2400
After Heating at 815°C	2200 - 2350
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 10.0
After Heating at 815°C	3.0 - 9.0
After Heating at 1095°C	3.0 - 9.0
After Heating at 1370°C	4.0 - 10.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	25.0 - 45.0
After Heating at 815°C	15.0 - 35.0
After Heating at 1095°C	15.0 - 35.0
After Heating at 1370°C	20.0 - 40.0
Permanent Linear Change - ASTM C113 and C865	
Cured then Dried at 105°C	0.0 - 0.1% Shr
After Heating at 815°C	0.0 - 0.2% Shr
After Heating at 1095°C	0.0 - 0.2% Shr
After Heating at 1370°C	0.0 - 0.9% Exp
After Heating at 1600°C	0.0 - 2.8% Exp
Thermal Conductivity	W/mK
At 205°C	1.12
At 425°C	1.11
At 650°C	1.10
At 870°C	1.08
At 1095°C	1.07
At 1315°C	1.07

Particulate Size - ASTM C92 Retained on 4 Mesh Tyler Screen (5mm) Less than 5%

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.

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

For more information Tel:+44(0)151 641 5900, Email: sales@anheurope.co.uk, Web: www.anheurope.co.uk

