

MC 22



Product Data

Ref:48/31/10/12

Description: Dense coarse, Castable suitable for temperatures up to 1290°C.

Features: • Outstanding strength.

Uses: • Ideal for heavy, massive construction, where high compressive strength is required to carry heavy loads or where thermal shock resistance is important.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	42.7%
Alumina - Al ₂ O ₃	37.4%
Titania - TiO ₂	1.5%
Iron Oxide - Fe ₂ O ₃	6.0%
Lime - CaO	11.8%
Magnesia - MgO	0.4%
Alkalies - Na ₂ O + K ₂ O	0.3%

Physical Properties

Conventional Cast

Maximum Recommended Temperature	1290°C
Quantity Required	2130 Kgs/m ³
Water required for mixing per 100 Kgs	11.0 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2150 - 2275
After Heating at 815°C	2085 - 2180
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 7.0
After Heating at 815°C	1.0 - 3.0
After Heating at 1095°C	1.0 - 3.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	30.0 - 50.0
After Heating at 815°C	15.0 - 30.0
After Heating at 1095°C	10.0 - 21.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	Nil
After Heating at 815°C	0.2% Shr - 0.1% Exp
After Heating at 1095°C	0 - 0.4% Shr
After Heating at 1370°C	0 - 0.8% Shr
Thermal Conductivity	W/mK
At 205°C	0.71
At 425°C	0.76
At 650°C	0.81
At 870°C	0.84
At 1095°C	0.85
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.

