

MC 25[®] PLUS

Product Data

Ref:49/28/02/13

Description: High-Strength, Coarse Aggregate Castable.

- Features:**
- Excellent resistance to thermal shock.
 - Withstands heavy loads and general mechanical abuse.
 - Coarse-grain technology for outstanding toughness.

- Uses:**
- Where abrasion occurs with a 'rubbing' mechanism.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	42.0%
Alumina - Al ₂ O ₃	46.0%
Titania - TiO ₂	1.6%
Iron Oxide - Fe ₂ O ₃	1.4%
Lime - CaO	8.4%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	0.4%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1400°C
Quantity Required	2065 Kgs/m ³
Water required for mixing per 100 Kgs	11 - 14 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2050 - 2250
After Heating at 815°C	2020 - 2155
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	4.0 - 10.0
After Heating at 815°C	1.5 - 4.0
After Heating at 1095°C	1.5 - 4.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	25.0 - 50.0
After Heating at 815°C	13.0 - 24.0
After Heating at 1095°C	10.0 - 20.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.2% Shr
After Heating at 815°C	0 - 0.3% Shr
After Heating at 1095°C	0 - 0.4% Shr
After Heating at 1370°C	0.5% Shr - 1.0% Exp
Thermal Conductivity	W/mK
At 205°C	0.88
At 425°C	0.88
At 650°C	0.89
At 870°C	0.91
At 1095°C	0.92
At 1315°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.