

VERSAFLOW[®] 65/AL C ADTECH[®]



Product Data

Ref:217/31/10/12

Description: 65% Alumina Coarse Grained Low Cement Castable

- Features:**
- Designed specifically for aluminium metal contact applications.
 - Contains an AL inhibitor for increased resistance to metal penetration.
 - Special coarse-grain technology for improved toughness and thermal shock resistance.
 - High Hot Strengths at 815°C.
 - Excellent non-wetting characteristics and resistance to metal penetration in accordance with 72 hour Aluminium Cup Test using 7075 Alloy at 815°C.
 - Can be vibcast, conventionally cast or pumped with slight adjustment to water content.

- Uses:**
- Aluminium contact applications including lower sidewalls and hearths, ramps door sills / jambs, troughs and transport crucibles.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	26.1%
Alumina - Al ₂ O ₃	66.8%
Titania - TiO ₂	2.2%
Iron Oxide - Fe ₂ O ₃	1.0%
Lime - CaO	3.6%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.2%

Physical Properties

	Vibration Cast
Maximum Recommended Temperature	1430°C
Quantity Required	2630 Kgs/m ³
Water required for mixing per 100 Kgs	5.0 - 6.0 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	2500 - 2750
After Heating at 815°C	2500 - 2750
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	9.0 - 20.0
After Heating at 815°C	9.0 - 20.0
After Heating at 1095°C	9.0 - 20.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	70.0 - 105.0
After Heating at 815°C	70.0 - 105.0
After Heating at 1095°C	70.0 - 105.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 815°C	0.1% Shr
After Heating at 1371°C	1.1% Exp
Thermal Conductivity	W/mK
At 200°C	1.86
At 400°C	1.69
At 600°C	1.62
At 800°C	1.64
At 1000°C	1.77
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.