Morbond™ AL

Product Data Sheet

Product Description

Morbond AL is a two component system that forms a rapid setting, easily placed castable on mixing, which can be brought quickly into service. It is a bauxite based composition specifically developed for aluminium contact applications, exhibiting excellent resistance to corundum growth and metal penetration. A 2 pack system phosphate bonded material offering excellent thermal shock resistance and aluminium contact/ corundum resistance.

Properties	Morbond AL
Region of Manufacture	Europe
Bond Type	Chemical
Method of application	Cast
Maximum Service Temperature, °C (°F)	1450
Estimated weight of dry material/ m^3 of construction, kg (lb)	2650
Water addition, % by weight	Accelerator
Maximum grain size, mm	3
Packaging in bags, kg (lb)	25 (55)

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Density, kg/m^3 (pcf), BS EN ISO 1927	
oven dried, 110°C (230°F)	2650 (165.4)
Cold crushing strength, MPa (psi), BS EN ISO 1927	
oven dried, 110°C (230°F)	49 (7105)
after 5 hours firing, 1000°C (1832°F)	36 (5220)
Permanent linear change, %, BS EN ISO 1927	
after 5 hours, 815°C (1500°F)	-0.1
after 5 hours, 1000°C (1832°F)	-0.1
after 5 hours, 1450°C (2642°F)	-0.1
Thermal conductivity, W/m•K (BTU•in./hr•ft²•°F), BS EN ISO 1927	
600°C (1112°F)	2.42 (1679)
Chemical composition, %	
Alumina, Al_2O_3	87
Silica, SiO_2	3
Ferric oxide, Fe_2O_3	0.6
Calcium oxide, CaO	1.6

Instruction for Use

Morbond AL is a 2 pack system - a bag of dry material and bottle of accelerator. The powder should be added to the liquid and mixed quickly. There will be an exothermic reaction and the mixed material should be placed in 3 minutes.

Storage and Shelf Life

- Should be stored in dry conditions, unopened packaging on pallets. Do not store on ground. Keep out of rain and damp conditions.
- Shelf life is of twelve months with original packaging, double shrink film and dehydrating agent provided if the monolithic is stored under these recommended conditions.

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