

PHOXBOND®



Product Data

Ref:146/31/10/12

Description: Chemically Setting Phosphate Bonded High Alumina Mortar.

- Features:
- High bond strength.
 - Excellent resistance to corrosion and erosion by non-ferrous and ferrous metals.
 - Exceptionally smooth working properties.
- Uses:
- Laying high alumina brick.
 - Brush coatings of refractory walls to reduce permeability.
 - Trowelled joints (maximum 1.6 mm thickness) should be used in non-ferrous applications.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	12.4%
Alumina - Al ₂ O ₃	75.7%
Titania - TiO ₂	2.9%
Iron Oxide - Fe ₂ O ₃	1.5%
Lime - CaO	0.3%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.3%
Phosphorous Pentoxide - P ₂ O ₅	6.8%

Physical Properties

Maximum Recommended Temperature	1800°C
Refractoriness Test - ASTM C199	
1650°C Test Temperature	No Softening or Flowing
Weight required to lay 1000 9 x 4 1/2 x 2 1/2 (229x114x63mm) Brick	
Dipping Consistency	227Kg
Modulus of Rupture - ASTM C198	
On birck with ends bonded together using mortar in trowelling consistency	Mpa
Dried at 105°C	8.0
Shelf Life (Under Proper Storage Conditions)	90 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 and Installation Guidelines are also available.