

JADE[®] SET SUPER



Product Data

Ref:108/31/10/12

Description: Wet, High-Alumina, Phosphate Bonded Mortar with Chromium Oxide.

- Features:
- Outstanding resistance to slag and chemical attack.
 - Excellent strength resulting from phosphate bonding.
 - Very low shrinkage.
 - Excellent refractoriness up to 1870°C
 - Resistance to penetration by metal or slags when used as a brick mortar or coating on refractory surfaces.

- Uses:
- Laying brick in channel induction units, steel ladles, tundishes, copper and aluminium metal-contact applications, torpedo ladles, iron ladles and direct arc furnace roofs.
 - Wash coat in many applications to minimise metal slag penetration.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	1.0%
Alumina - Al ₂ O ₃	83.5%
Chromic Oxide - Cr ₂ O ₃	8.7%
Iron Oxide - Fe ₂ O ₃	0.1%
Lime - CaO	0.1%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.3%
Phosphorous Pentoxide - P ₂ O ₅	6.2%

Physical Properties

Maximum Recommended Temperature	1870°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	375Kg
Modulus of Rupture - ASTM C198	
On brick with ends bonded together using mortar in trowelling consistency	Mpa
Dried at 105°C	3.79 - 6.89
Particle Size - ASTM C92	
Maximum Retained on 20 Mesh (0.83mm)	Less than 1.0%
Maximum Retained on 48 Mesh (0.3mm)	Less than 5.0%
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 and Installation Guidelines are also available.