

Product Data

Ref:145/31/10/12

Description: High-alumina, phosphate-bonded, plastic.

- Features:**
- Bauxite based.
 - Excellent strength.
 - Outstanding slag resistance.
 - Good resistance to alkali attack.
 - Volume stability at high temperatures.
 - Extended shelf life of 9 months results in less waste, especially for large projects.
 - Excellent pliability enables less time to install.
- Uses:**
- Linings for Incinerators and Afterburners.
 - Aluminum contact such as sidewalls and ramps.
 - Steel contact applications such as ladles bottoms and lip rings.
 - Iron contact applications such as ladles.
 - Metal contact for brass, bronze and zinc.
 - Metal Reheat furnaces.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	8.1%
Alumina - Al ₂ O ₃	84.1%
Titania - TiO ₂	2.2%
Iron Oxide - Fe ₂ O ₃	1.0%
Lime - CaO	0.2%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	0.2%
Phosphorus Pentoxide P ₂ O ₅	4.1%

Physical Properties

Maximum Recommended Temperature	1700°C
Quantity Required	2850 Kgs/m ³
Bulk Density	Kgs/m ³
After Heating at 345°C	2560
After Heating at 1400°C	2550
Modulus of Rupture - ASTM C491	MPa
After Heating at 345°C	13.8
After Heating at 1400°C	18.6
Hot Modulus of Rupture	
After Heating at 1370°C	3.4
Cold Crushing Strength - ASTM C113 and C865	MPa
After Heating at 345°C	36.5
After Heating at 1400°C	56.5
Abrasion Loss	cc
After Heating at 815°C	5.5
Permanent Linear Change - ASTM C179	
After Heating at 345°C	1.0% Shr
After Heating at 1400°C	0.2% Exp
Thermal Conductivity (at the mean temperature of)	W/mK
425°C	2.12
650°C	2.08
870°C	2.03
1095°C	2.09
Shelf Life (Under Proper Storage Conditions)	270 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.