

GREENPAK[®] 80



Product Data

Ref:100/31/10/12

Description: 80% Alumina plastic which sets hard on drying out.

Features: ● Exhibits excellent resistance to vitrification and thermal shock from rapid heating or cooling furnace conditions.

Uses: ● Burner blocks.
● Combustion chambers.
● Boilers.
● High temperature dryers.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	12.1%
Alumina - Al ₂ O ₃	83.6%
Titania - TiO ₂	2.4%
Iron Oxide - Fe ₂ O ₃	1.5%
Lime - CaO	0.1%
Magnesia - MgO	0.1%
Alkalies - Na ₂ O + K ₂ O	0.2%

Physical Properties

Maximum Recommended Temperature	1650°C
Quantity Required	2600 Kgs/m ³
Modulus of Rupture - ASTM C491	MPa
After Heating at 105°C	1.5 - 2.0
After Heating at 815°C	1.0 - 1.7
After Heating at 1400°C	1.7 - 4.1
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	2.0 - 5.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0 - 1.1% Shr
After Heating at 1400°C	0 - 1.2% Exp
After Heating at 1650°C	0 - 1.2% Exp
Thermal Conductivity	W/mK
At 425°C	0.45
At 650°C	0.59
At 870°C	0.72
At 1095°C	0.85
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.