

GREENPAK® 85P PLUS

Product Data

Ref:104/28/02/13

Description: 85% alumina chemically bonded plastic refractory.

- Features:
- Excellent strength and outstanding slag resistance.
 - Good workability and volume stability at high temperatures.
 - Demonstrates good resistance to alkali attack.

- Uses:
- Incinerator linings and afterburners.
 - Aluminium holding furnace side walls and ramps.
 - Steel mill maintenance linings.
 - Ladle linings for iron, carbon steel, aluminum, brass bronze and zinc.
 - Burner blocks.
 - Soaking pit slaglines.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	8.7%
Alumina - Al ₂ O ₃	83.1%
Titania - TiO ₂	2.3%
Iron Oxide - Fe ₂ O ₃	1.1%
Lime - CaO	0.2%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	0.2%

Physical Properties

Maximum Recommended Temperature	1700°C
Quantity Required	2830 Kgs/m ³
Modulus of Rupture - ASTM C491	MPa
After Heating at 105°C	4.0 - 12.0
After Heating at 815°C	5.0 - 10.0
After Heating at 1400°C	6.0 - 12.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	20.0 - 35.0
Permanent Linear Change - ASTM C179	
After Heating at 105°C	0 - 0.5% Shr
After Heating at 1400°C	0 - 0.7% Shr
After Heating at 1600°C	1.5% Shr - 1.0% Exp
Thermal Conductivity	W/mK
At 425°C	2.12
At 650°C	2.08
At 870°C	2.03
At 1095°C	2.09
Shelf Life (Under Proper Storage Conditions)	120 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.