

GREENPAK® 70P



Product Data

Ref:142/31/10/12

Description: 70% Alumina chemically bonded plastic refractory.

Features:

- Exhibiting a positive expansion at temperatures above 1400°C.
- Minimising slag or metal penetration.

Uses:

- Molten metal applications.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	20.0%
Alumina -Al ₂ O ₃	72.0%
Titania - TiO ₂	1.8%
Iron Oxide - Fe ₂ O ₃	1.1%
Lime - CaO	0.2%
Magnesia - MgO	0.2%
Alkalies - Na ₂ O + K ₂ O	0.3%

Physical Properties

Maximum Recommended Temperature	1650°C
Quantity Required	2770 Kgs/m ³
Modulus of Rupture - ASTM C491	MPa
After Heating at 105°C	4.0 - 12.0
After Heating at 815°C	3.0 - 10.0
After Heating at 1095°C	3.0 - 10.0
Cold Crushing Strength - ASTM C113 and C865	MPa
After Heating at 105°C	15.0 - 30.0
After Heating at 815°C	20.0 - 30.0
Permanent Linear Change - ASTM C179	
After Heating at 105°C	0 - 0.5% Shr
After Heating at 815°C	0 - 1.0% Exp
After Heating at 1095°C	0 - 1.0% Exp
Thermal Conductivity (at the mean temperature of)	W/mK
425°C	1.43
650°C	1.44
870°C	1.47
1095°C	1.47
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.