PRODUCT DATA

JET D.P. FIREBRICK

ALSEY Jet D.P. High Duty Firebrick

Description:
High duty dry press firebrick

Sizes:
Various

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24
P.C.E. 32-32½
Temperature Equivalent (melting), °F..... 3123-3135
Service Temperature (max. recommended), °F 2850

ASTM C-133
Modulus of Rupture (MOR), psi 1062
Cold Crush 3560

ASTM C-20
Apparent Porosity, % 19.9
Apparent Specific Gravity, g/cc 2.68
Bulk Density, lb/ft^3 ..... 133.7
Water Absorption, % 8.8

ASTM C-16 Schedule 2, % deformation
Load Test at 2460°F 1.3

ASTM C-27
Classification ..... High Duty

ASTM C-113 Schedule B % linear
Reheat Change at 2550°F ..... -0.1

ASTM C-38, 2910°F preheat
Panel Spalling Loss, % wt. 3.3

Thermal Conductivity (K-Factor)

At a mean temperature of		Btu/in ft^{2}hr°F	W/m°C
400°F	(205°C)	8.2	1.18
800°F	(425°C)	8.5	1.23
1200°F	(650°C)	9.0	1.30
1600°F	(870°C)	9.2	1.33
2000°F	(1095°C)	9.5	1.37
2400°F	(1315°C)	9.8	1.41

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO_2) 56.32
Aluminum Oxide (Al_2O_3) 37.63
Titanium Dioxide (TiO_2) 2.01
Iron Oxide (Fe_2O_3) 1.69
Potassium Oxide (K_20) 1.25
Magnesium Oxide (MgO) 0.38
Calcium Oxide 0.26
Other Oxides 0.46
Total 100.00

Loss on Ignition, 1000°C 0.12

MSDS available upon request.

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Manufacturer of Quality Refractories Since 1906