

PRODUCT DATA

PILOT D.P. FIREBRICK

ALSEY PILOT D.P. Super Duty Firebrick

Description:

Super duty dry press firebrick

Sizes:

Various

TYPICAL TEST DATA -- PHYSICAL PROPERTIES

ASTM C-24

P.C.E.33
 Temperature Equivalent (melting), °F.....3169
 Service Temperature (max. recommended), °F2910

ASTM C-133

Modulus of Rupture (MOR), psi1100-1500
 Cold Crush6000

ASTM C-20

Apparent Porosity, %14-18
 Apparent Specific Gravity, g/cc.....2.68
 Bulk Density (fired) lb/ft³138-142
 Water Absorption, %.....6.0

ASTM C-16 Schedule 3, % deformation

Load Test at 2640°F.....1.3

ASTM C-27

Classification Super Duty

ASTM C-113 Schedule B % linear

Reheat Change at 2910°F..... -1.0 to +0.5

Thermal Conductivity (K-Factor)

At a mean temperature of		Btu/in ft ² hr°F	W/m°C
400°F	(205°C)	8.1	1.2
800°F	(425°C)	8.4	1.2
1200°F	(650°C)	10.1	1.5
1600°F	(870°C)	10.8	1.6
2000°F	(1095°C)	11.4	1.6
2400°F	(1315°C)	12.0	1.7

TYPICAL CHEMICAL ANALYSIS, Wt. % (calcined basis)

Silica (SiO ₂)	49.37
Aluminum Oxide (Al ₂ O ₃)	44.32
Titanium Dioxide (TiO ₂)	2.23
Iron Oxide (Fe ₂ O ₃)	1.38
Potassium Oxide	1.37
Magnesium Oxide (MgO)	0.42
Calcium Oxide (CaO)	0.22
Other Oxides	0.69
Total	100.00
Loss on Ignition, 1000°C	0.00

MSDS available upon request.

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The above properties represent average results of typical data produced from standard ASTM test methods on a 9" straight. Specifications should not be considered guaranteed. Alsey Refractories Company makes every effort to ensure consistency in our products; however, properties may vary due to standard statistical manufacturing deviations. Alsey Refractories Company reserves the right to modify this data at any time without prior notice.