

DESCRIPTION: High Duty, dry press firebrick
 SIZES: Various



TYPICAL TEST DATA

CHEMICAL ANALYSIS [Wt. % Calcined Basis]

Silica [SiO ₂]	56.3
Aluminum Oxide [Al ₂ O ₃]	37.6
Titanium Dioxide [TiO ₂]	2.0
Iron Oxide [Fe ₂ O ₃]	1.7
Potassium Oxide [K ₂ O]	1.3
Other Oxides	0.4
Magnesium Oxide [MgO]	0.4
Calcium Oxide [CaO]	0.3
Total	100.0
Loss on Ignition, 1000°C	0.1

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

PHYSICAL PROPERTIES

ASTM C-24

P.C.E.	32-32½
Service Temperature [max. recommended], °F	2850
Temperature Equivalent [melting], °F	3123

ASTM C-133

Modulus of Rupture [MOR], psi	1100
Cold Crush	3500

ASTM C-20

Apparent Porosity, %	19.0
Apparent Specific Gravity, g/cc	2.7
Bulk Density [fired] lb./ft ³	133.7
Water Absorption, %	8.8

ASTM C-16 Schedule 3 [% deformation]

Load Test at 2640°F	1.3
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ASTM C-113 Schedule B [% linear]

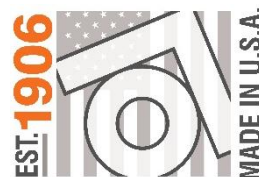
Reheat Change at 2550°F	-0.1
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ASTM C-38 2910°F preheat

Panel Spalling Loss, % wt.	2.0
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SDS AVAILABLE UPON REQUEST

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.



Alsey Refractories Company
 266 State Route 106 South
 PO Box 80
 Alsey, IL 62610
 314.963.7900 | info@alsey.com