

DESCRIPTION: Super Duty, dry press firebrick
 SIZES: Various



TYPICAL TEST DATA

CHEMICAL ANALYSIS [Wt. % Calcined Basis]

Silica [SiO ₂]	52.4
Aluminum Oxide [Al ₂ O ₃]	41.3
Titanium Dioxide [TiO ₂]	2.2
Iron Oxide [Fe ₂ O ₃]	1.4
Potassium Oxide [K ₂ O]	1.4
Other Oxides	0.7
Magnesium Oxide [MgO]	0.4
Calcium Oxide [CaO]	0.2
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]	8.1	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

PHYSICAL PROPERTIES

ASTM C-24

P.C.E.	33
Service Temperature [max. recommended], °F	2910
Temperature Equivalent [melting], °F	3169

ASTM C-133

Modulus of Rupture [MOR], psi	900
Cold Crush	4200

ASTM C-20

Apparent Porosity, %	18
Apparent Specific Gravity, g/cc	2.7
Bulk Density [fired] lb./ft ³	132-146
Water Absorption, %	6.0

ASTM C-16 Schedule 3 [% deformation]

Load Test at 2640°F	1.3
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ASTM C-113

Reheat Change at 2910°F	-1.0 to +1.0
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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. Aalsey Refractories Company makes every effort to ensure consistency in our products; however, properties may vary due to standard statistical manufacturing deviations. Aalsey Refractories Company reserves the right to modify this data at any time without prior notice.



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