

Classification	High-Alumina Brick ASTM C 27, 80% Alumina		
Physical Properties	Refractoriness	Orton Cone	38
	Bulk Density	kg/m ³	2750
	Apparent Porosity	%	18.5
	Cold Crushing Strength	kg/cm ²	750
	Modulus of Rupture	kg/cm ²	125
	Permanent Linear Change After Heating at 1600 °C	%	1.00
	Chemical Composition	Alumina (Al ₂ O ₃)	%
Silica (SiO ₂)		%	14.5
Iron Oxide (Fe ₂ O ₃)		%	1.6
Titania (TiO ₂)		%	2.9
Thermal Expansion	400 °C	%	0.33
	800 °C	%	0.51
	1000 °C	%	0.69
	1200 °C	%	0.87
	1400 °C	%	1.05
Thermal Conductivity	400 °C	(W/m.K)	2.20
	600 °C	(W/m.K)	2.09
	800 °C	(W/m.K)	2.03
	1000 °C	(W/m.K)	2.00

The above data are typical properties of 9" commercial straight brick. The data are subjected to reasonable variations and should not be used for specification purposes.

ASTM test methods, and SRIC's written procedure, where applicable, used for determination of data.

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