

Classification	High-Duty Fireclay Brick ASTM C 27, Regular Type			
Physical Properties	Refractoriness	Orton Cone	31 ^{1/2}	
	Bulk Density	kg/m ³	2210	
	Apparent Porosity	%	20.0	
	Cold Crushing Strength	kg/cm ²	280	
	Modulus of Rupture	kg/cm ²	50	
	Permanent Linear Change After Heating at 1400 °C	%	-0.40	
	Chemical Composition	Alumina (Al ₂ O ₃)	%	36.5
		Silica (SiO ₂)	%	58.6
Iron Oxide (Fe ₂ O ₃)		%	1.3	
Alkalies (Na ₂ O+K ₂ O+Li ₂ O)		%	0.6	
Thermal Expansion	400 °C	%	0.26	
	800 °C	%	0.35	
	1000 °C	%	0.43	
	1200 °C	%	0.52	
	1400 °C	%	0.63	
Thermal Conductivity	200 °C	(W/m.K)	1.13	
	400 °C	(W/m.K)	1.19	
	600 °C	(W/m.K)	1.24	
	800 °C	(W/m.K)	1.29	
	1000 °C	(W/m.K)	1.39	

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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