

Classification	Insulating Firebrick ASTM C 155, Group No. 30		
Physical Properties	Max. Service Temperature	°C	1620
	Bulk Density	kg/m ³	1060
	Apparent Porosity	%	59
	Cold Crushing Strength	kg/cm ²	40
	Modulus of Rupture	kg/cm ²	15
	Permanent Linear Change After Heating at 1620 °C	%	-0.70
	Chemical Composition	Alumina (Al ₂ O ₃)	%
Silica (SiO ₂)		%	18.0
Lime (CaO)		%	0.5
Iron Oxide (Fe ₂ O ₃)		%	0.2
Thermal Expansion	400 °C	%	0.34
	800 °C	%	0.54
	1000 °C	%	0.73
	1200 °C	%	0.92
	1400 °C	%	1.12
Thermal Conductivity	350 °C	W/m.K	0.32
	400 °C	W/m.K	0.38
	600 °C	W/m.K	0.42
	800 °C	W/m.K	0.52
	1000 °C	W/m.K	0.56
	1100 °C	W/m.K	0.60
	1200 °C	W/m.K	0.68

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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