

CLASSIFICATION	Super-Duty Fireclay Brick ASTM C 27, Regular Type		
PHYSICAL PROPERTIES	Refractoriness	Orton Cone	33-34
	Bulk Density	kg/m ³	2260
	Apparent Porosity	%	18.0
	Cold Crushing Strength	kg/cm ²	350
	Modulus of Rupture	kg/cm ²	80
	Permanent Linear Change After Heating at 1600 °C	%	-0.50
CHEMICAL COMPOSITION	Alumina (Al ₂ O ₃)	%	46.0
	Silica (SiO ₂)	%	50.0
	Iron Oxide (Fe ₂ O ₃)	%	1.3
	Alkalies (Na ₂ O+K ₂ O+Li ₂ O)	%	0.7
THERMAL EXPANSION	400 °C	%	0.26
	800 °C	%	0.35
	1000 °C	%	0.47
	1200 °C	%	0.58
	1400 °C	%	0.70
THERMAL CONDUCTIVITY	200 °C	(W/m.K)	1.14
	400 °C	(W/m.K)	1.21
	600 °C	(W/m.K)	1.26
	800 °C	(W/m.K)	1.31
	1000 °C	(W/m.K)	1.40

The above data are typical values of which the properties of the samples tested according to the internal procedure and standard of Siam Refractory generally accepted by our customers for many years. The above data can not be used for specification or guarantee purpose. Siam Refractory reserves the right to update the above data and change our internal procedure and standard without any prior notice.