

IF 145

CLASSIFICATION	Insulating Firebrick		
PHYSICAL PROPERTIES	Max. Service Temperature	°C	1400
	Bulk Density	kg/m ³	850
	Apparent Porosity	%	60
	Cold Crushing Strength	kg/cm ²	40
	Modulus of Rupture	kg/cm ²	20
	Permanent Linear Change After Heating at 1400 °C	%	-0.50
CHEMICAL COMPOSITION	Alumina (Al ₂ O ₃)	%	45.3
	Silica (SiO ₂)	%	51.4
	Lime (CaO)	%	0.8
	Iron Oxide (Fe ₂ O ₃)	%	1.1
THERMAL EXPANSION	400 °C	%	0.22
	800 °C	%	0.30
	1000 °C	%	0.38
	1200 °C	%	0.49
	1400 °C	%	0.60
THERMAL CONDUCTIVITY	350 °C	(W/m.K)	0.28
	400 °C	(W/m.K)	0.31
	600 °C	(W/m.K)	0.34
	800 °C	(W/m.K)	0.37
	1000 °C	(W/m.K)	0.40
	1100 °C	(W/m.K)	0.42

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.

