

CAST 16

CLASSIFICATION	High-Alumina Castable ASTM C 401 Class E		
PHYSICAL PROPERTIES	Max. Service Temperature	°C	1600
	Max. Grain Size of Aggregates	mm	5.0
	Approx. Weight Required for Casting	kg/m ³	2300
	Approx. Amount of Water Required for Casting	%	9-11
	Bulk Density After Drying at 110 °C	kg/m ³	2230
	Modulus of Rupture After Drying at 110 °C	kg/cm ²	70
	Modulus of Rupture After Heating at 1595 °C	kg/cm ²	90
	Cold Crushing Strength After Drying at 110 °C	kg/cm ²	400
	Cold Crushing Strength After Heating at 1595 °C	kg/cm ²	700
	Permanent Linear Change After Heating at 1595 °C	%	-0.20
CHEMICAL COMPOSITION	Alumina (Al ₂ O ₃)	%	60.0
	Silica (SiO ₂)	%	33.0
	Iron Oxide (Fe ₂ O ₃)	%	1.4
	Lime (CaO)	%	5.0
THERMAL EXPANSION	400 °C	%	0.28
	800 °C	%	0.42
	1000 °C	%	0.55
	1200 °C	%	0.69
	1400 °C	%	0.84
THERMAL CONDUCTIVITY	400 °C	(W/m.K)	1.20
	600 °C	(W/m.K)	1.25
	800 °C	(W/m.K)	1.30
	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.