

CAST 13 ES

Classification	Extra Strength Fireclay Castable		
Physical Properties	Maximum Service Temperature	°C	1300
	Maximum Grain Size of Aggregates	mm	5.0
	Approximate Weight Required for Casting	kg/m ³	2010
	Approximate Amount of Water Required for Casting	%	11-13
	Bulk Density After Drying at 110 °C	kg/m ³	2115
	Modulus of Rupture After Drying at 110 °C	kg/cm ²	80
	Modulus of Rupture After Heating at 1260 °C	kg/cm ²	60
	Cold Crushing Strength After Drying at 110 °C	kg/cm ²	450
	Cold Crushing Strength After Heating at 1260 °C	kg/cm ²	300
	Permanent Linear Change After Heating at 1260 °C	%	+0.50
Chemical Composition	Alumina (Al ₂ O ₃)	%	36.0
	Silica (SiO ₂)	%	50.0
	Iron Oxide (Fe ₂ O ₃)	%	1.5
	Lime (CaO)	%	9.5
Thermal Expansion	at 400 °C	%	0.2
	at 800 °C	%	0.3
	at 1000 °C	%	0.4
	at 1200 °C	%	0.4
Thermal Conductivity	at 400 °C	W/m.K	1.2
	at 600 °C	W/m.K	1.2
	at 800 °C	W/m.K	1.2
	at 1000 °C	W/m.K	1.3

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.

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