



THE SIAM REFRACTORY INDUSTRY CO.,LTD.

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Data Sheet

CAST 16 CG

Classification : Coarse Grain High-Alumina Castable

Physical Properties :

Maximum Service Temperature	°C	1600
Maximum Grain Size of Aggregates	mm	12.5
Approximate Weight Required for Casting	kg/m ³	2360
Approximate Amount of Water Required for Casting	%	9-11
Bulk Density After Drying at 110 °C	kg/m ³	2300
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	450
Cold Crushing Strength After Heating at 1595 °C	kg/cm ²	800
Permanent Linear Change After Heating at 1595 °C	%	-0.20

Chemical Composition :

Alumina (Al ₂ O ₃)	%	65.0
Silica (SiO ₂)	%	28.0
Iron Oxide (Fe ₂ O ₃)	%	1.4
Lime (CaO)	%	5.0

Thermal Expansion :

at 400 °C	%	0.26
at 800 °C	%	0.40
at 1000 °C	%	0.53
at 1200 °C	%	0.67
at 1400 °C	%	0.81

Thermal Conductivity :

at 400 °C	W/m.K	1.24
at 600 °C	W/m.K	1.29
at 800 °C	W/m.K	1.34
at 1000 °C	W/m.K	1.45

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.

Approved by :  Date : May 19, 2010
Quality Assurance Manager