



SIAM ENGINEERING CERAMICS CO., LTD.

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CAST-70LC

SEC-Spec-CAST-70LC Rev.00

TECHNICAL DATA SHEET

CAST-70LC is a high alumina castable, consisting of purity high dense bauxite, resist abrasion, acid slag and thermal spalling. Extra strength and high density castable which exhibits volume stability It' s recommended for uses in conditions which require load bearing strength and thermal spalling resistance in high temperature. It's a fast setting castable which suits rapid working. In applications such as sidewalls and roofs of boiler furnace and metal melting furnaces.

PHYSICAL PROPERTIES :

Maximum Service Temperature	°C	1700
Maximum Grain Size of Aggregates	mm	5.0
Approximate Weight Required for Casting	kg/m ³	2310
Approximate Amount of Water Required for Casting	%	10
Bulk Density After Drying at 110°C	kg/m ³	2260
Cold Crushing Strength after Drying at 110°C	kg/cm ²	300-450
Cold Crushing Strength after Heating at 1500°C	kg/cm ²	680
Permanent Linear Change After Heating at 1500°C	%	-0.2

CHEMICAL ANALYSIS :

Alumina (Al ₂ O ₃)	%	70.0
Silica (SiO ₂)	%	26.5
Iron Oxide (Fe ₂ O ₃)	%	1.6

THERMAL CONDUCTIVITY :

	Kcal/ hr.m.°C	
at 400 °C		1.20
at 600 °C		1.25
at 1000 °C		1.40

The above data are typical properties for the most commonly produced commercial sizes. All data subject to reasonable deviation only, and should not be used for specification purposes. ASTM test methods, and SEC 's written procedure, where applicable used for determination of data.

"Quality and Services are Our Mission"