



SIAM ENGINEERING CERAMICS CO., LTD.

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CAST-17CG

SEC-Spec-CAST-17CG Rev.01

TECHNICAL DATA SHEET

CAST-17CG is a high alumina castable, purity bauxite and exhibits extremely high refractoriness, dimensional stability and excellent thermal spalling resistance. In applications such as sidewalls and roofs of heating furnaces, boiler furnaces, glass furnaces 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	2560
Approximate Amount of Water Required for Casting	%	10
Bulk Density After Drying at 110°C	kg/m ³	2620
Cold Crushing Strength after Drying at 110°C	kg/cm ²	350-450
Cold Crushing Strength after Heating at 1700°C	kg/cm ²	800
Permanent Linear Change After Heating at 1700°C	%	-0.60

CHEMICAL ANALYSIS :

Alumina (Al ₂ O ₃)	%	87.0
Silica (SiO ₂)	%	5.0
Iron Oxide (Fe ₂ O ₃)	%	1.0

THERMAL CONDUCTIVITY :

	Kcal/ hr.m.°C	
at 400 °C		1.85
at 600 °C		1.85
at 1000 °C		1.87

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"