



SIAM ENGINEERING CERAMICS CO., LTD.

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CAST-18

SEC-Spec-CAST-18 Rev.00

TECHNICAL DATA SHEET

CAST-18 is a high alumina castable, purity tabular alumina and white fused alumina, and features extremely high refractoriness and dimensional stability. Excellent corrosion resistance castable which withstands thermal spalling, metal penetration and attack by slag. In applications such as sidewalls and roofs of induction furnace, electric arc furnaces, and metal melting furnaces.

PHYSICAL PROPERTIES :

Maximum Service Temperature	°C	1800
Maximum Grain Size of Aggregates	mm	5.0
Approximate Weight Required for Casting	kg/m ³	2720
Approximate Amount of Water Required for Casting	%	10
Bulk Density After Drying at 110°C	kg/m ³	2820
Cold Crushing Strength after Drying at 110°C	kg/cm ²	650
Cold Crushing Strength after Heating at 1500°C	kg/cm ²	800

CHEMICAL ANALYSIS :

Alumina (Al ₂ O ₃)	%	94.0
Silica (SiO ₂)	%	1.8
Iron Oxide (Fe ₂ O ₃)	%	0.02

THERMAL CONDUCTIVITY :

	Kcal/ hr.m.°C
at 400 °C	0.93
at 600 °C	0.96
at 1000 °C	0.98

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"