



SIAM ENGINEERING CERAMICS CO., LTD.

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CAST-80LC

SEC-Spec-CAST-80LC Rev.00

TECHNICAL DATA SHEET

CAST-80LC is a purity high dense bauxite, tabular and white fused alumina based super-dense castable which resists abrasion and thermal spalling, and allow low shrinkage. Excellent refractoriness as well as good load carrying and volume stability at high temperature. It's a fast setting super-dense castable which suits rapid repairing and installation of refractory structures. It's recommended for used in conditions with attack by alkaline slag.

PHYSICAL PROPERTIES :

Maximum Service Temperature	°C	1750
Maximum Grain Size of Aggregates	mm	5.0
Approximate Weight Required for Casting	kg/m ³	2520
Approximate Amount of Water Required for Casting	%	9-10
Bulk Density After Drying at 110°C	kg/m ³	2400
Cold Crushing Strength after Drying at 110°C	kg/cm ²	520
Cold Crushing Strength after Heating at 1750°C	kg/cm ²	800
Permanent Linear Change After Heating at 1750°C	%	+0.15

CHEMICAL ANALYSIS :

Alumina (Al ₂ O ₃)	%	80.5
Silica (SiO ₂)	%	15.8
Iron Oxide (Fe ₂ O ₃)	%	1.0

THERMAL CONDUCTIVITY :

	Kcal/ hr.m.°C
at 400 °C	2.55
at 600 °C	2.30
at 1000 °C	2.15

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"