



SIAM ENGINEERING CERAMICS CO., LTD.

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CAST-11LW

SEC-Spec-CAST-11LW Rev.00

TECHNICAL DATA SHEET

CAST-11LW is a light weight castable, comprising purity perlite ash and bauxite, provides high porosity, low shrinkage and low thermal conductivity. This castable can save heat consumption as it allows low hest losses and low heat storage capacity.

PHYSICAL PROPERTIES :

Maximum Service Temperature	°C	1100
Maximum Grain Size of Aggregates	mm	3.5
Approximate Weight Required for Casting	kg/m ³	600
Approximate Amount of Water Required for Casting	%	40-55
Bulk Density After Drying at 110°C	kg/m ³	1020
Cold Crushing Strength after Drying at 110°C	kg/cm ²	30
Cold Crushing Strength after Heating at 1050°C	kg/cm ²	40
Permanent Linear Change After Heating at 1050°C	%	-0.8

CHEMICAL ANALYSIS :

Alumina (Al ₂ O ₃)	%	48.0
Silica (SiO ₂)	%	45.0
Iron Oxide (Fe ₂ O ₃)	%	0.8

THERMAL CONDUCTIVITY :

	Kcal/ hr.m.°C	
at 400 °C		0.15
at 600 °C		0.16
at 1000 °C		0.20

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"