



HIGH PURITY INSULATING CASTABLE

PRODUCT: INSULYTE 13 Li
TYPE: MEDIUM DENSITY INSULATING CASTABLE
NATURE OF BOND: HYDRAULIC
INSTALLATION: TAMPING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE: 1400 °C
MAXIMUM GRAIN SIZE: 6 mm
WATER REQUIRED FOR CASTING: 27 – 32 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Fe ₂ O ₃	1.30 – 1.90	1.60	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	1.35 – 1.50	1.48	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	80 – 110	90	BIS 10570
after heating at 1100 °C / 3 hrs	40 – 70	50	BIS 10570
after heating at 1350 °C / 3 hrs	50 – 80	70	BIS 10570
% Retained on maximum size	0 – 5	1.2	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		+ 15 / + 1430	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.30) to (+0.30)	-0.12	BIS 10570
after heating at 1350 °C / 3 hrs	(- 0.80) to (+0.80)	+0.70	BIS 10570
Thermal Conductivity, kcal/m/hr/°C at 500 °C HF	0.37 – 0.42	0.405	WATER CALORIMETRIC METHOD

Packaging: 25 kg bags

Delivery State: Dry

Storage Life: Best till 9 months from the date of production, if stored in proper condition.

Note:

(1) The data are current production averages. They can not be used as limits for specification.

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