



MEDIUM PURITY INSULATING CASTABLE

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

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE: 1350 °C
MAXIMUM GRAIN SIZE: 6 mm
WATER REQUIRED FOR CASTING: 26 – 31 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Fe ₂ O ₃	2.80 – 3.50	3.40	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	50 – 70	60	BIS 10570
after heating at 1100 °C / 3 hrs	30 – 50	35	BIS 10570
after heating at 1300 °C / 3 hrs	50 – 70	65	BIS 10570
% Retained on maximum size	0 – 5	1.2	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		+ 14 / + 1398	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(-0.30) to (+0.30)	-0.15	BIS 10570
after heating at 1300 °C / 3 hrs	(-0.80) to (+0.80)	+0.70	BIS 10570
Thermal Conductivity, kcal/m/hr/°C at 500 °C HF	0.32 – 0.37	0.335	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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