



MEDIUM PURITY INSULATING CASTABLE

PRODUCT:	INSULYTE 11
TYPE:	MEDIUM DENSITY INSULATING CASTABLE
NATURE OF BOND:	HYDRAULIC
INSTALLATION:	TAMPING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1300 °C
MAXIMUM GRAIN SIZE:	6 mm
WATER REQUIRED FOR CASTING:	29 – 34 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Fe ₂ O ₃	3.00 – 3.50	3.35	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	1.20 – 1.35	1.28	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	35 – 50	40	BIS 10570
after heating at 1100 °C / 3 hrs	25 – 40	30	BIS 10570
after heating at 1300 °C / 3 hrs	40 – 55	50	BIS 10570
% Retained on maximum size	0 – 5	1.4	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)	-0.19	BIS 10570
after heating at 1300 °C / 3 hrs	(+ 0.20) to (+1.00)	+0.80	BIS 10570
Thermal Conductivity, kcal/m/hr/°C at 500 °C HF	0.30 – 0.35	0.325	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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