



MEDIUM PURITY INSULATING CASTABLE

PRODUCT: INSULYTE 10S
TYPE: MEDIUM DENSITY INSULATING CASTABLE
NATURE OF BOND: HYDRAULIC
INSTALLATION: TAMPING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE: 1100 °C
MAXIMUM GRAIN SIZE: 6 mm
WATER REQUIRED FOR CASTING: 40 – 48 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Fe ₂ O ₃	4.50 – 6.00	4.75	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	1.00 – 1.15	1.08	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	20 – 40	28	BIS 10570
after heating at 800 °C / 3 hrs	15 - 35	22	BIS 10570
after heating at 1100 °C / 3 hrs	12 – 30	18	BIS 10570
MOR, kg/cm ² after drying at 110 °C / 24 hrs	10– 17	13	BIS 10570
after heating at 800 °C / 3 hrs	6 – 12	8	BIS 10570
after heating at 1100 °C / 3 hrs	5 – 12	7	BIS 10570
% Retained on maximum size	0 – 5	1.5	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		+ 12 / + 1337	BIS 1528 Part 1
PLC, % after heating at 800 °C / 3 hrs	(- 0.80) to (+0.80)	-0.31	BIS 10570
after heating at 1100 °C / 3 hrs	(- 1.20) to (+1.20)	-0.90	BIS 10570
Thermal Conductivity, kcal/m/hr°C at 500 °C HF	0.20 – 0.25	0.22	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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