



SPECIAL CASTABLES

PRODUCT : TABCAST 97
TYPE : 97% ALUMINA DENSE CASTABLE
NATURE OF BOND : HYDRAULIC
INSTALLATION : VIBRATION CASTING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE: 1850 °C
MAXIMUM GRAIN SIZE: 5 mm
WATER REQUIRED FOR CASTING: 8.5 – 9.5 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	95 – 96.5	95.9	BIS 12107 Part 3
Fe ₂ O ₃	0.10 – 0.30	0.14	BIS 12107 Part 6
CaO	2.80 – 3.50	3.22	ASTM C 573

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.75 – 2.85	2.83	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	300 – 500	492	BIS 10570
after heating at 1100 °C / 3 hrs	250 – 375	351	BIS 10570
after heating at 1550 °C / 3 hrs	350 – 500	457	BIS 10570
% Retained on maximum size	0 – 5		BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		+ 38 / + 1835	BIS 1528 Part 1
PLC, % after heating at 1550 °C / 3 hrs	+1.50 to –0.50	+1.02	BIS 10570

Packaging: 50 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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