



MEDIUM PURITY DENSE CASTABLE

PRODUCT:	FIRECRETE SUPER
TYPE:	70% ALUMINA CASTABLE
NATURE OF BOND:	HYDRAULIC
INSTALLATION:	VIBRATION CASTING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1450 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	10 – 11 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	68 – 72	70.2	BIS 12107 Part 3
CaO	5.2 – 6.0	5.45	ASTM C 573
Fe ₂ O ₃	4.8 – 5.5	5.10	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.50 – 2.65	2.55	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	350 – 450	380	BIS 10570
after heating at 1100 °C / 3 hrs	180 - 280	250	BIS 10570
after heating at 1400 °C / 3 hrs	350 – 470	430	BIS 10570
% Retained on maximum size	0 – 5	0.8	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		31 / 1683	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.30) to (+0.30)	-0.12	BIS 10570
after heating at 1400 °C / 3 hrs	(- 1.60) to (+1.70)	-0.70	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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