

PRODUCT:	FIRECRETE NORMAL
PRODUCT CLASS:	REFRACTORY MONOLITHIC
TYPE:	45% ALUMINA CASTABLE
NATURE OF BOND:	HYDRAULIC
INSTALLATION:	VIBRATION CASTING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1400 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	11.0 – 13.0 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	42.0 – 46.0	43.5	BIS 12107 Part 3
CaO	5.3 – 6.2	6.0	ASTM C 573
Fe ₂ O ₃	3.4 – 4.2	3.9	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.00 – 2.15	2.08	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	250 – 350	285	BIS 10570
after heating at 1100 °C / 3 hrs	130 – 200	180	BIS 10570
after heating at 1350 °C / 3 hrs	225 – 325	255	BIS 10570
% Retained on maximum size	0 – 5	1.0	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		20 / 1564	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(+ 0.30) to (-0.30)	-0.15	BIS 10570
after heating at 1350 °C / 3 hrs	(+ 0.35) to (+ 1.35)	+0.85	BIS 10570

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.