

PRODUCT:	WHYTHEAT C SPECIAL
PRODUCT CLASS:	REFRACTORY MONOLITHIC
TYPE:	50 %ALUMINA CASTABLE (HIGH STRENGTH)
NATURE OF BOND:	HYDRAULIC
INSTALLATION:	VIBRATION CASTING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1500 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	10.5 – 11.5 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	48 – 53	51	BIS 12107 Part 3
CaO	4.0 – 5.0	4.60	ASTM C 573
Fe ₂ O ₃	0.75 – 1.30	1.00	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.10 – 2.27	2.18	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	400 – 500	435	BIS 10570
after heating at 1100 °C / 3 hrs	200 – 300	235	BIS 10570
after heating at 1500 °C / 3 hrs	560 – 670	620	BIS 10570
% Retained on maximum size	0 – 5	0.8	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		30 / 1665	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.4) to (+0.2)	-0.20	BIS 10570
after heating at 1500 °C / 3 hrs	(- 1.0) to (-2.5)	-1.70	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.