HIGH PURITY DENSE CASTABLES

PRODUCT: **WHYTHEAT K**
TYPE: **60 % ALUMINA DENSE CASTABLE**
NATURE OF BOND: **HYDRAULIC**
INSTALLATION: **VIBRATION CASTING**

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1600 ºC
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	10.60 – 11.80 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al_2O_3	56 – 60	59	BIS 12107 Part 3
CaO	4.00 – 4.70	4.50	ASTM C 573
Fe_2O_3	1.00 – 1.25	1.10	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 ºC / 24 hrs	2.15 – 2.25	2.20	BIS 10570
CCS, kg/cm^2 after drying at 110 ºC / 24 hrs after heating at 1100 ºC / 3 hrs after heating at 1400 ºC / 3 hrs	 350 – 430 180 – 280 350 – 500	 380 225 400	 BIS 10570 BIS 10570 BIS 10570
% Retained on maximum size	0 – 5	0.8	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / ºC		31 / 1683	BIS 1528 Part 1
PLC, % after heating at 1100 ºC / 3 hrs after heating at 1550 ºC / 3 hrs	 (- 0.4) to (+0.2) (- 1.2) to (-2.4)	 -0.15 -1.70	 BIS 10570 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.