

<b>PRODUCT:</b>	<b>WHYTHEAT K (SUPREME)</b>
<b>PRODUCT CLASS:</b>	<b>REFRACTORY MONOLITHIC</b>
<b>TYPE:</b>	<b>ALUMINO – SILICATE CASTABLE (SUPERIOR STRNGTH)</b>
<b>NATURE OF BOND:</b>	<b>HYDRAULIC</b>
<b>INSTALLATION:</b>	<b>VIBRATION CASTING</b>

### **GENERAL PROPERTIES**

MAX. SERVICE TEMPERATURE:	1500 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	11.0 – 13.0 %

### **CHEMICAL ANALYSIS, %**

	<b>RANGE</b>	<b>TYPICAL VALUE</b>	<b>TEST PROCEDURE</b>
Al <sub>2</sub> O <sub>3</sub>	50 - 54	52	BIS 12107 Part 3
CaO	5.1 – 5.5	5.3	ASTM C 573
Fe <sub>2</sub> O <sub>3</sub>	1.30 – 1.70	1.50	BIS 12107 Part 6

### **PHYSICAL PROPERTIES**

	<b>RANGE</b>	<b>TYPICAL VALUE</b>	<b>TEST PROCEDURE</b>
Dry density, g / cc after drying at 110 °C / 24 hrs	2.05 – 2.25	2.16	BIS 10570
CCS, kg/cm <sup>2</sup> after drying at 110 °C / 24 hrs	500 – 600	550	BIS 10570
after heating at 1100 °C / 3 hrs	250 – 350	300	BIS 10570
after heating at 1500 °C / 3 hrs	500 – 600	570	BIS 10570
% Retained on maximum size	0 – 5	1.0	BIS 1528 Part 14

### **THERMAL PROPERTIES**

	<b>RANGE</b>	<b>TYPICAL VALUE</b>	<b>TEST PROCEDURE</b>
Refractoriness, Orton / °C		30 / 1665	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.40) to (+0.20)	-0.20	BIS 10570
after heating at 1500 °C / 3 hrs	(- 1.00) to (-2.50)	-1.80	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.