



**HIGH PURITY DENSE CASTABLES**

<b>PRODUCT:</b>	<b>WHYTHEAT A</b>
<b>TYPE:</b>	<b>HIGH ALUMINA DENSE CASTABLE</b>
<b>NATURE OF BOND:</b>	<b>HYDRAULIC</b>
<b>INSTALLATION:</b>	<b>VIBRATION CASTING</b>

**GENERAL PROPERTIES**

MAX. SERVICE TEMPERATURE:	1700 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	8.0 – 10.0 %

**CHEMICAL ANALYSIS, %**

	<b>RANGE</b>	<b>TYPICAL VALUE</b>	<b>TEST PROCEDURE</b>
Al <sub>2</sub> O <sub>3</sub>	85.00 – 88.00	85.8	BIS 12107 Part 3
CaO	5.8 – 6.5	6.2	ASTM C 573
Fe <sub>2</sub> O <sub>3</sub>	1.2 – 1.8	1.6	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	2.65 – 2.80	2.73	BIS 10570
CCS, kg/cm <sup>2</sup> after drying at 110 °C / 24 hrs	600 – 700	640	BIS 10570
after heating at 1100 °C / 3 hrs	300 – 400	350	BIS 10570
after heating at 1550 °C / 3 hrs	650 – 800	750	BIS 10570
% Retained on maximum size	0 – 5	0.8	BIS 1528 Part 14

**THERMAL PROPERTIES**

	<b>RANGE</b>	<b>TYPICAL VALUE</b>	<b>TEST PROCEDURE</b>
Refractoriness, Orton / °C		+ 37 / + 1820	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.40) to (+0.20)	-0.15	BIS 10570
after heating at 1550 °C / 3 hrs	(- 1.2) to (-2.5)	-1.80	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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