



**HIGH PURITY DENSE CASTABLES**

**PRODUCT:** WHYTHEAT C  
**TYPE:** 50 % ALUMINA DENSE CASTABLE  
**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 <sub>2</sub> O <sub>3</sub>	48 – 52	50.5	BIS 12107 Part 3
CaO	4.2 – 4.9	4.50	ASTM C 573
Fe <sub>2</sub> O <sub>3</sub>	0.8 – 1.5	1.20	BIS 12107 Part 6

**PHYSICAL PROPERTIES**

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.10 – 2.25	2.17	BIS 10570
CCS, kg/cm <sup>2</sup> after drying at 110 °C / 24 hrs	350 – 430	380	BIS 10570
after heating at 1100 °C / 3 hrs	180 – 280	220	BIS 10570
after heating at 1500 °C / 3 hrs	530 – 680	610	BIS 10570
% Retained on maximum size	0 – 5	1.0	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)	-0.15	BIS 10570
after heating at 1500 °C / 3 hrs	(- 1.0) to (-2.5)	-1.50	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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