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|------------------------|------------------------------------|
| PRODUCT: | WHYTHEAT K |
| PRODUCT CLASS: | REFRACTORY MONOLITHIC |
| TYPE: | 60 % ALUMINA DENSE CASTABLE |
| NATURE OF BOND: | HYDRAULIC |
| INSTALLATION: | VIBRATION CASTING |

GENERAL PROPERTIES

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|-----------------------------|---------------|
| MAX. SERVICE TEMPERATURE: | 1600 °C |
| MAXIMUM GRAIN SIZE: | 5 mm |
| WATER REQUIRED FOR CASTING: | 11.0 – 13.0 % |

CHEMICAL ANALYSIS, %

| | RANGE | TYPICAL VALUE | TEST PROCEDURE |
|--------------------------------|--------------|----------------------|-----------------------|
| Al ₂ O ₃ | 56 – 60 | 57.5 | BIS 12107 Part 3 |
| CaO | 4.00 – 4.70 | 4.50 | ASTM C 573 |
| Fe ₂ O ₃ | 1.00 – 1.25 | 1.18 | BIS 12107 Part 6 |

PHYSICAL PROPERTIES

| | RANGE | TYPICAL VALUE | TEST PROCEDURE |
|--|--------------|----------------------|-----------------------|
| Dry density, g / cc after drying at 110 °C / 24 hrs | 2.05 – 2.20 | 2.14 | BIS 10570 |
| CCS, kg/cm ² after drying at 110 °C / 24 hrs | 350 – 430 | 380 | BIS 10570 |
| after heating at 1100 °C / 3 hrs | 180 – 280 | 225 | BIS 10570 |
| after heating at 1400 °C / 3 hrs | 350 – 500 | 400 | BIS 10570 |
| % Retained on maximum size | 0 – 5 | 0.8 | BIS 1528 Part 14 |

THERMAL PROPERTIES

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