

**HIGH PURITY DENSE CASTABLES**

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|------------------------|-----------------------------------|
| PRODUCT: | MAXHEAT K |
| TYPE: | 60% ALUMINA DENSE CASTABLE |
| NATURE OF BOND: | HYDRAULIC |
| INSTALLATION: | VIBRATION CASTING |

GENERAL PROPERTIES

| | |
|------------------------------|---------------|
| MAX. SERVICE TEMPERATURE : | 1600 °C |
| MAXIMUM GRAIN SIZE : | 5 mm |
| WATER REQUIRED FOR CASTING : | 11.2 – 12.2 % |

CHEMICAL ANALYSIS, %

| | RANGE | TYPICAL VALUE |
|--------------------------------|--------------|----------------------|
| Al ₂ O ₃ | 56 - 60 | 59.1 |
| Fe ₂ O ₃ | 1.0 – 1.25 | 1.20 |
| CaO | 4.5 – 5.0 | 4.8 |

PHYSICAL PROPERTIES

| | RANGE | TYPICAL VALUE |
|----------------------------------|--------------|----------------------|
| DRY DENSITY, G / CC | | |
| AFTER DRYING AT 110 °C / 24 HRS | 2.15 – 2.25 | 2.22 |
| CCS,KG/CM2 | | |
| AFTER DRYING AT 110 °C / 24 HRS | 350 - 430 | 384 |
| AFTER HEATING AT 1100 °C / 3 HRS | 180 - 280 | 226 |
| AFTER HEATING AT 1500 °C / 3 HRS | 350 - 500 | 408 |
| % RETAINED ON MAXIMUM SIZE | 0 - 5 | 1.5 |

THERMAL PROPERTIES

| | RANGE | TYPICAL VALUE |
|----------------------------------|--------------------|----------------------|
| REFRACTORINESS, ORTON / °C | - | 31 / 1683 |
| PLC, % | | |
| AFTER HEATING AT 1100 °C / 3 HRS | (- 0.4) to (+0.2) | - 0.18 |
| AFTER HEATING AT 1500 °C / 3 HRS | (- 1.2) to (- 2.4) | - 1.68 |

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|------------------------------|--------------------------------|-----------------------------|
| Packaging : 25kg bags | Storage life : 9 months | Delivery state : dry |
|------------------------------|--------------------------------|-----------------------------|

Note : The data are current production averages. They can not be used as limits for specification

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