



## TECHNICAL DATA

### FOR LIGHT WEIGHT CASTABLE

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|                                                                   |                  |
|-------------------------------------------------------------------|------------------|
| <b>BRAND NAME :</b>                                               | <b>NC12 - 13</b> |
| <b>RAW MATERIAL BASIS :</b>                                       | <b>CHAMOTTE</b>  |
| <b>PHYSICAL PROPERTIES :</b>                                      |                  |
| Maximum service temperature ,°C                                   | 1300             |
| Dry castable required , Kg/m <sup>3</sup>                         | 1400             |
| Approximate amount of water required for pouring , Liter /30Kg    | 7.5 – 8.5        |
| Bulk density , Kg/m <sup>3</sup> after drying at 110°C            | 1470             |
| Cold crushing strength , Kg/cm <sup>2</sup> after drying at 110°C | 55 – 75          |
| after heating at 1260°C                                           | 45 – 65          |
| Thermal conductivity , Kcal/h.m.°C at 400°C                       | 0.48             |
| 600°C                                                             | 0.52             |
| 800°C                                                             | 0.56             |
| Permanent Linear Change , % after heating at 1260°C               | -1.5 to 0.0      |
| Grain size, mm                                                    | 0 – 6            |

### CHEMICAL ANALYSIS :

(calcined basis)

|                                                          |      |
|----------------------------------------------------------|------|
| SiO <sub>2</sub>                                         | 37.5 |
| Al <sub>2</sub> O <sub>3</sub>                           | 38.5 |
| TiO <sub>2</sub>                                         | 2.6  |
| Fe <sub>2</sub> O <sub>3</sub>                           | 6.7  |
| CaO                                                      | 12.3 |
| Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O | 2.4  |

**PACKING IN SACKS OF , Kg** **30**

The data are subject to reasonable variations and therefore should not be used for specification purposes .

ASTM Test Methods , where applicable , used for determination of data .

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