



## TECHNICAL DATA

### FOR LIGHT WEIGHT CASTABLE

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|   |                    |
|---|--------------------|
| BRAND NAME :  | <b>NC12 - 12</b>   |
| RAW MATERIAL BASIS :  | <b>CHAMOTTE</b>    |
| PHYSICAL PROPERTIES :   |                    |
| Maximum service temperature ,°C                                   | <b>1200</b>        |
| Dry castable required , Kg/m <sup>3</sup>                         | <b>1150</b>        |
| Approximate amount of water required for pouring , Liter /25Kg    | <b>6.5 – 8.0</b>   |
| Bulk density , Kg/m <sup>3</sup> after drying at 110°C            | <b>1230</b>        |
| Cold crushing strength , Kg/cm <sup>2</sup> after drying at 110°C | <b>35 – 40</b>     |
| after heating at 1150°C   | <b>20 – 30</b>     |
| Thermal conductivity , Kcal/h.m.°C at 400°C                       | <b>0.36</b>        |
| 600°C   | <b>0.40</b>        |
| 800°C   | <b>0.44</b>        |
| Permanent Linear Change , % after heating at 1150°C               | <b>-1.5 to 0.0</b> |
| Grain size, mm  | <b>0 – 6</b>       |

### CHEMICAL ANALYSIS :

(calcined basis)

|  |             |
|--|-------------|
| SiO <sub>2</sub>   | <b>41.0</b> |
| Al <sub>2</sub> O <sub>3</sub>                           | <b>35.0</b> |
| TiO <sub>2</sub>   | <b>2.5</b>  |
| Fe <sub>2</sub> O <sub>3</sub>                           | <b>7.0</b>  |
| CaO  | <b>12.0</b> |
| Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O | <b>2.5</b>  |

PACKING IN SACKS OF , Kg **25**

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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