



TECHNICAL DATA  
FOR DENSE CASTABLE – LCC  
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BRAND NAME :

NC21 - 18CRV

RAW MATERIAL BASIS :

TABULAR ALUMINA

PHYSICAL PROPERTIES :

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Maximum service temperature ,°C                                   | 1740         |
| Dry castable required , Kg/m <sup>3</sup>                         | 3000         |
| Approximate amount of water required for pouring , Liter /30Kg    | 1.4 – 1.7    |
| Bulk density , Kg/m <sup>3</sup> after drying at 110°C            | 3100         |
| Cold crushing strength , Kg/cm <sup>2</sup> after drying at 110°C | 700 – 900    |
| after heating at 1600°C                                           | 1000 – 1300  |
| Permanent Linear Change , % after heating at 1600°C               | -1.0 to +1.0 |
| Grain size, mm                                                    | 0 – 5        |

CHEMICAL ANALYSIS :

(calcined basis)

|                                                                 |      |
|-----------------------------------------------------------------|------|
| SiO <sub>2</sub>                                                | 3.8  |
| Al <sub>2</sub> O <sub>3</sub> + Cr <sub>2</sub> O <sub>3</sub> | 93.5 |
| TiO <sub>2</sub>                                                | 0.1  |
| Fe <sub>2</sub> O <sub>3</sub>                                  | 0.1  |
| CaO                                                             | 2.0  |
| Na <sub>2</sub> O + K <sub>2</sub> O + Li <sub>2</sub> O        | 0.5  |

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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