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|--------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|-------------------|-----------------|
| <div><div><div>TRL KROSAKI</div><div>(Formerly Tata Refractories Limited)</div><div>Product Definition Sheet</div></div></div> |  |                                                                                                                                                                            |                                 |           | TRL Incast 7G     |                 |
| Revision No :01                                                                                                                |  |                                                                                                                                                                            |                                 |           | Date : 03.06.2020 |                 |
| Product Name                                                                                                                   |  | TRL Incast 7G                                                                                                                                                              |                                 |           |                   |                 |
| Product Description                                                                                                            |  | Light Weight insulating castable                                                                                                                                           |                                 |           |                   |                 |
| Maximum Service temperature                                                                                                    |  | 1100°C                                                                                                                                                                     |                                 |           |                   |                 |
| Disposal Recommendation                                                                                                        |  | Must not be disposed together with household garbage. Do not allow products to reach sewage system.                                                                        |                                 |           |                   |                 |
| CONTROL PROPERTIES                                                                                                             |  |                                                                                                                                                                            |                                 |           |                   |                 |
| Chemical Analysis                                                                                                              |  | Unit by wt                                                                                                                                                                 | Value                           |           |                   | Test Method     |
|                                                                                                                                |  |                                                                                                                                                                            | Typical                         | Limit     |                   |                 |
| Al <sub>2</sub> O <sub>3</sub>                                                                                                 |  | %                                                                                                                                                                          | 25.6                            | 23 - 27   |                   | By Wet Chemical |
| SiO <sub>2</sub>                                                                                                               |  | %                                                                                                                                                                          | 44.9                            |           |                   | By Wet Chemical |
| Fe <sub>2</sub> O <sub>3</sub>                                                                                                 |  | %                                                                                                                                                                          | 6.2                             | 4 - 8     |                   | By Wet Chemical |
| CaO                                                                                                                            |  | %                                                                                                                                                                          | 18.1                            |           |                   | By Wet Chemical |
| Physical properties                                                                                                            |  | Unit                                                                                                                                                                       |                                 |           |                   |                 |
| Bulk Density at 110°C/24 hrs                                                                                                   |  | Kg/m3                                                                                                                                                                      | 832                             | ≤ 950     |                   | BIS 10570       |
|                                                                                                                                |  |                                                                                                                                                                            |                                 |           |                   |                 |
| CCS at 110°C/24 hrs                                                                                                            |  | N/mm2                                                                                                                                                                      | 1.4                             | 1.0 - 2.0 |                   | BIS 10570       |
| CCS at 800°C/3 hrs                                                                                                             |  | N/mm2                                                                                                                                                                      | 0.85                            | 0.5 - 1.2 |                   | BIS 10570       |
| CCS at 1100°C/3 hrs                                                                                                            |  | N/mm2                                                                                                                                                                      | 1.05                            | 0.7 - 1.5 |                   | BIS 10570       |
|                                                                                                                                |  |                                                                                                                                                                            |                                 |           |                   |                 |
| Thermal conductivity                                                                                                           |  |                                                                                                                                                                            |                                 |           |                   |                 |
| At 260 °C hot face                                                                                                             |  | Kcal/m/hr/°C                                                                                                                                                               | 0.15                            |           |                   | BIS 9490        |
| At 500 °C hot face                                                                                                             |  | Kcal/m/hr/°C                                                                                                                                                               | 0.19                            | ≤ 0.20    |                   | BIS 9490        |
| At 650 °C hot face                                                                                                             |  | Kcal/m/hr/°C                                                                                                                                                               | 0.23                            |           |                   | BIS 9490        |
|                                                                                                                                |  |                                                                                                                                                                            |                                 |           |                   |                 |
| PLC at 800°C/3 hrs                                                                                                             |  | %                                                                                                                                                                          | - 0.76                          |           |                   | BIS 10570       |
| PLC at 1100°C/3 hrs                                                                                                            |  | %                                                                                                                                                                          | - 1.56                          | ≤ +/- 2.0 |                   | BIS 10570       |
| Maximum Grain size                                                                                                             |  | mm                                                                                                                                                                         | 98.6%<br>passing<br>through 5mm | ≤ 5       |                   |                 |
| Shelf Life                                                                                                                     |  | 9 months from the date of manufacture                                                                                                                                      |                                 |           |                   |                 |
| Technology Manager                                                                                                             |  |                                                                                                                                                                            |                                 |           |                   |                 |
| Contact Address                                                                                                                |  | TRL Krosaki Refractories Limited<br>P.O.- Belpahar, Dist.- Jharsuguda, Odisha, Pin- 768 218, INDIA<br>Phone: 91-6645-250286<br>Information department: Technology Division |                                 |           |                   |                 |

**N.B: 95% Min. will pass through the maximum grain size indicated.**