

Revision No.: 00

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**Product Name:** TRL SW HSR2

**Product Description:** Semi Re-bonded Magnesia Chrome Brick based on high purity Magnesia, Chrome Ore & magnesia chrome co-clinker. This is a newly developed brick having better hydration and slag corrosion resistance

**Application:** Different furnaces in Non-ferrous industries – Area of High Corrosion & Erosion

**CONTROL PROPERTIES:**

| Chemical Analysis<br>(Calcined Basis)         | Unit by wt         | Value   |        | Test Method      |
|---|--------------------|---------|--------|------------------|
|   |                    | Typical | Limit  |                  |
| MgO   | %                  | 53.6    | ≥ 52.0 | By XRF           |
| Cr <sub>2</sub> O <sub>3</sub>                | %                  | 23.9    | ≥ 22.0 |                  |
| SiO <sub>2</sub>                              | %                  | 0.8     | ≤ 1.0  |                  |
| Fe <sub>2</sub> O <sub>3</sub>                | %                  | 8.9     | -      |                  |
| Al <sub>2</sub> O <sub>3</sub>                | %                  | 6.9     | -      |                  |
| CaO   | %                  | 1.1     | -      |                  |
| <b>Physical Properties</b>                    | Unit               |         |        |                  |
| App. porosity                                 | Vol.%              | 12.2    | ≤ 14.0 | ISO 5017: 1998   |
| Bulk Density                                  | gm/cc              | 3.34    | ≥ 3.32 | ISO 5017: 1998   |
| CCS   | Kg/cm <sup>2</sup> | 735     | ≥ 650  | ISO 10059-2:2003 |
| RUL (t <sub>a</sub> ) at 2 kg/cm <sup>2</sup> | °C                 | + 1750  | ≥ 1750 | IS 1528- Part 2  |

**Supplementary Properties ( for information only)**

|                             |   |        |                          |
|-----------------------------|---|--------|--------------------------|
| PLC at 1500°C/2 hrs         | % | + 0.27 | ISO 2478:1987            |
| Thermal Expansion at 1200°C | % | 1.28   | IS 1528 (Part 19) : 1991 |

**Control Dimensions:** AQL 6.5% for critical dimensions (ISO 5022)

**Shelf Life** 12 months from the date of manufacture when stored under shed and free from moisture

Technology Manager

Signature:

Contact Address

TRL Krosaki Refractories Limited  
P.O.- Belpahar, Dist.- Jharsuguda, Odisha, Pin- 768 218, INDIA  
Phone: 91-6645-250286  
Information department: Technology Division