



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### MAGNO 80

|                                     |   |
|-------------------------------------|---|
| <b>Classification:</b>              | Magnesia - Chrome Brick (Burned)  |
| <b>Main Raw Material Component:</b> | Dead Burned Magnesia (DBM & Alpine) – Chromite  |
| <b>Type Of Bond:</b>                | Ceramic   |
| <b>Main Applications:</b>           | Burning Zone of cement rotary kilns, Excellent coating adherence, Good resistance to thermal shock, Low thermal conductivity. |

| <b>Chemical Composition</b><br>(Calcined base) |                                  |                                  |                    |
|--|----------------------------------|----------------------------------|--------------------|
| MgO %  | Cr <sub>2</sub> O <sub>3</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | SiO <sub>2</sub> % |
| 78 – 82  | 4.0 – 6.0                        | 4.5 – 6.5                        | 1.5 – 3.0          |

| <b>Physical Properties</b> |                    |         |
|----------------------------|--------------------|---------|
| Bulk density               | g/cm <sup>3</sup>  | > 2.90  |
| Cold crushing strength     | kg/cm <sup>2</sup> | 400-600 |
| Apparent porosity          | %                  | < 19    |
| Modulus of rupture         | kg/cm <sup>2</sup> | 40-70   |

| <b>Thermomechanical Properties</b>            |    |           |
|---|----|-----------|
| Refractoriness under Load T <sub>05</sub>     | °C | 1430-1480 |
| Reversible Linear thermal expansion (1400 °C) | %  | ≈ 1.2     |

The above data are typical of the properties of commercial Standard brick .

The data are subject to reasonable variation and therefore should not be used for Specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties .

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

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