



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IREFMAG 98 IT

| | |
|--|-----------------------------------|
| Classification: | Magnesite Brick (Tar Impregnated) |
| P.C.E. (Equivalent temperature) | > 39 (1865°C) |
| Main Raw Material Component: | Dead Burned Magnesia |
| Type Of Bond: | Direct Bonded |
| Main Applications: | Lower part side walls in EAF |

| Chemical Composition (Calcined base) | | | |
|--|--------------------|-------|----------------------------------|
| MgO % | SiO ₂ % | CaO % | Fe ₂ O ₃ % |
| 97 | < 1.0 | 1.3 | 0.6 |

| Physical Properties | | |
|-------------------------------|--------------------|-----------|
| <i>Bulk density</i> | g/cm ³ | 2.90-3.00 |
| <i>Cold crushing strength</i> | kg/cm ² | 500-700 |
| <i>Apparent porosity</i> | % | < 7 |
| <i>Modulus of Rupture</i> | kg/cm ² | 80-140 |

| Thermomechanical Properties | | |
|--|----|----------|
| <i>Refractoriness under Load T05</i> | °C | Min 1750 |
| <i>Reversible Linear thermal expansion (1100 °C)</i> | % | ≈ 1.5 |

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.

Revision:3

Date of issue: 1397/08/15

Code: IRF-ST-Q-860-19

Revision:00