



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IREFMAG 95

Classification:	Magnesite Brick
P.C.E. (Equivalent temperature)	> 38 (1835°C)
Main Raw Material Component:	Dead Burned Magnesia
Type Of Bond:	Ceramic
Main Applications:	Various purposes; Safety layers in steel melting vessels, Regenerator side walls and checker networks, Lime kilns as well as Chemical & Nonferrous Industries

Chemical Composition (Calcined base)

MgO %	SiO ₂ %	CaO %	Fe ₂ O ₃ %
92 – 94	2.5 – 3.5	1.5 – 2.5	1.5 – 2.5

Physical Properties

<i>Bulk density</i>	g/cm ³	2.84-3.02
<i>Cold crushing strength</i>	kg/cm ²	450-650
<i>Apparent porosity</i>	%	14-18
<i>Modulus of rupture</i>	kg/cm ²	90-150

Thermomechanical Properties

<i>Refractoriness under Load T05</i>	°C	Min 1500
<i>Reversible Linear thermal expansion (1100 °C)</i>	%	≈ 1.4

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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