



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IREFMAG 90

Classification:	Magnesite Brick
P.C.E. (Equivalent temperature)	> 37 (1820°C)
Main Raw Material Component:	Dead Burned Magnesia
Type Of Bond:	Ceramic
Main Applications:	Various purposes; Safety layers in steel melting vessels, Lime kilns as well as Chemical & Nonferrous Industries

Chemical Composition (Calcined base)

MgO %	SiO ₂ %	CaO %	Fe ₂ O ₃ %
89 – 91	4.5 – 5.5	2.0 – 3.5	0.5-1.5

Physical Properties

Bulk density	g/cm ³	2.80-2.95
Cold crushing strength	kg/cm ²	450-600
Apparent porosity	%	< 19
Modulus of rupture	kg/cm ²	90-150

Thermomechanical Properties

Refractoriness under Load T05	°C	Min 1470
Reversible Linear thermal expansion (1400°C)	%	≈ -1.9

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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