



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IREFMAG 98

Classification:	Magnesite Brick
P . C . E . (Equivalent temperature)	> 39 (1865°C)
Main Raw Material Component:	Dead Burned Magnesia
Type Of Bond:	Direct Bonded
Main Applications:	EAF side walls (Lower part), Glass Industries (Regenerator Lining)

Chemical Composition (Calcined base)			
MgO %	SiO ₂ %	CaO %	Fe ₂ O ₃ %
96 – 98	0.5 – 1.5	1.0 – 1.8	0.5 – 1.5

Physical Properties		
<i>Bulk density</i>	g/cm ³	2.85-2.95
<i>Cold crushing strength</i>	kg/cm ²	450-700
<i>Apparent porosity</i>	%	15-18
<i>Modulus of rupture</i>	kg/cm ²	90-150

Thermomechanical Properties		
<i>Refractoriness under Load T05</i>	°C	Min 1650
<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 thereforeNot as guaranteed properties .

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

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