



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA 70

Classification:	High Alumina Brick
Main Raw Material Component:	Bauxite (Rotary Kiln)
Type Of Bond:	Ceramic
P.C.E. (Equivalent temperature)	> 35 (1785 °C)
Main Applications:	Various purposes ; Safety layer in steel melting vessels & Cement Industries (particularly Safety zone of rotary kiln and high temp. zones of preheater) as well as Chemical & Nonferrous Industries, Lime kilns.

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
68 – 72	22 – 24	2.0 – 3.0	2.8 – 3.8

Physical Properties		
Bulk Density	gr/cm ³	> 2.35
Cold Crushing Strength	kg/cm ²	450 – 800
Apparent Porosity	%	< 20
Modulus of Rupture	kg/cm ²	> 70

Thermomechanical Properties		
Refractoriness under Load T05	°C	Min 1425
Reversible Linear thermal expansion (1400 °C)	%	≈ 0.8

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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