



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA 70SP

Classification:	High Alumina Brick
Main Raw Material Component:	Bauxite (Rotary Kiln)
Type Of Bond:	phosphate Bonded
P.C.E. (Equivalent temperature)	> 34 (1763°C)
Main Applications:	Cement Industries (particularly Safety zone of rotary kiln which low porosity and high resistance to abrasion and corrosion required).

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
68 – 72	22 – 24	1.8 – 2.8	2.8 – 3.8

Physical Properties		
<i>Bulk Density</i>	g/cm ³	> 2.50
<i>Cold Crushing Strength</i>	kg/cm ²	> 550
<i>Apparent Porosity</i>	%	< 18
<i>Modulus of Rupture</i>	kg/cm ²	> 180

Thermomechanical Properties		
<i>Refractoriness under Load T05</i>	°C	Min 1400
<i>Reversible Linear thermal expansion (1400 °C)</i>	%	≈ 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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