



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



AZAR

Classification:	High duty Fireclay Brick
Main Raw Material Component:	Fireclay
Type Of Bond:	Ceramic
P.C.E .(Equivalent temperature)	> 32 (1665°C)
Main Applications:	General uses ;(Steel & Cement Industries as well as Chemical & Nonferrous Industries at low temp. situs)

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
42 – 46	45 – 50	1.5 – 2.5	2.0 – 3.0

Physical Properties		
Bulk Density	gr/cm ³	2.17-2.25
Cold Crushing Strength	kg/cm ²	340-550
Apparent Porosity	%	13-20
Modulus of Rupture	kg/cm ²	80-150

Thermomechanical Properties		
Refractoriness under Load T05	°C	Min 1320
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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