



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



SEMITERM 35A-R (LI)

Classification:	Alkali resistance Low Iron fire brick
Main Raw Material Component:	Special low density fireclay
Type Of Bond:	Ceramic
P.C.E .(Equivalent temperature)	>28 (1648°C)
Main Applications:	Cement Industries (particularly calcining zone of rotary kiln), Alkali resistance.

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
35 – 38	56 – 58	< 1.0	< 1.0

Physical Properties		
Bulk Density	g/cm ³	> 2.18
Cold Crushing Strength	kg/cm ²	> 500
Apparent Porosity	%	< 13
Modulus of Rupture	kg/cm ²	> 80

Thermomechanical Properties		
Refractoriness under Load T05	°C	Min 1250
Reversible Linear thermal expansion (1100 °C)	%	≈ 0.9

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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