



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### SEMTERM 35 AR

<b>Classification:</b>	Alkali resistance fire brick
<b>Main Raw Material Component:</b>	Special low density fireclay
<b>Type Of Bond:</b>	Ceramic
<b>P.C.E .(Equivalent temperature)</b>	> 28 (1646°C)
<b>Main Applications:</b>	Cement Industries (particularly calcining zone of rotary kiln), Alkali resistance.

<i>Chemical Composition</i> (Calcined base)			
Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	TiO <sub>2</sub> %
35 – 38	56 – 58	< 2.0	1.0 – 2.0
<i>Physical Properties</i>			
Bulk Density	g/cm <sup>3</sup>	> 2.18	
Cold Crushing Strength	kg/cm <sup>2</sup>	> 500	
Apparent Porosity	%	< 13	
Modulus of Rupture	kg/cm <sup>2</sup>	> 90	
<i>Thermomechanical Properties</i>			
Refractoriness under Load T05	°C	Min	1240
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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