



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



SEMIROM LI

Classification:	Super duty Low Iron Fireclay Brick
Main Raw Material Component:	High quality Low Iron chamotte
Type Of Bond:	Ceramic
P.C.E .(Equivalent temperature)	> 33(1743°C)
Main Applications:	Wherever reduction resistance required; particularly in Iron ore pelletizing plants & Petrochemical Industries.

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
40 – 44	50 – 54	< 1.7	1.8

Physical Properties		
Bulk Density	gr/cm ³	2.20-2.30
Cold Crushing Strength	kg/cm ²	400-600
Apparent Porosity	%	10-17
Modulus of Rupture	kg/cm ²	80-150

Thermomechanical Properties		
Refractoriness under Load T05	°C	Min 1360
Reversible Linear thermal expansion (1100 °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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