

IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



SEMIROM

Classification:	Super duty Fireclay Brick		
Main Raw Material Component:	High quality chamotte		
Type Of Bond:	Ceramic		
P.C.E. (Equivalent temperature)	> 32 (1717 °C)		
Main Applications:	Various purposes ;Steel & Cement Industries(particularly preheater and calcining zone of rotary kiln) as well as Chemical & Nonferrous Industries, Regenerator side walls and checker networks, Lime kilns.		

Chemical Composition (Calcined base)					
Al ₂ O _{3 %}	SiO _{2 %}	$Fe_2O_3\%$		TiO _{2 %}	
40–43	50 - 54	1.6 - 2.1		1.8 - 2.2	
Physical Properties					
Bulk Density		g/cm ³		2.20 - 2.30	
Cold Crushing Strength		kg/cm ²		400 - 600	
Apparent Porosity		%		10- 17	
Modulus of Rup	ture	kg/cm ²		80-150	
Thermomechanical Properties					
Refractoriness under Load T05			°C	Min 1350	
Reversible Linear thermal expansion (1100 °C)			%	pprox 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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