IRAN REFRACTORIES COMPANY
TECHNICAL DATA SHEET

ESFANJ 34

Classification:	High temp. Insulating Brick
Main Raw Material Component:	Light weight High Alumina
Type Of Bond:	Ceramic
P .C .E .(Equivalent temperature)	>33(1717 °C)
Main Applications:	High temp. insulating purposes, Low density, Low Thermal Conductivity.

Chemical Composition
(Calcined base)

Al_2O_3 %	SiO_2 %	Fe_2O_3 %
88 – 90	9.0 – 11.0	0.5 – 0.9

Physical Properties

Bulk Density	gr/cm^3	1.9-2.1
Cold Crushing Strength	kg/cm^2	250-300
Apparent Porosity	%	30-35
Modulus of Rupture	kg/cm^2	50-80

Thermomechanical Properties

Reversible Linear thermal expansion (1100 °C)	%	≈ 0.4

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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