



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### ALUMO

<b>Classification:</b>	Alumina –Mullite Brick
<b>Main Raw Material Component:</b>	Alumina – Mullite
<b>Type Of Bond:</b>	Ceramic
<b>P.C.E .(Equivalent temperature)</b>	> 33 (1743 °C)
<b>Main Applications:</b>	Special usages. Petrochemical Industries, Excellent resistance to high temperature, abrasion, corrosion and chemical attacks.

#### **Chemical Composition** (Calcined base)

Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %
> 47	< 50	< 1.7

#### **Physical Properties**

<b>Bulk Density</b>	gr/cm <sup>3</sup>	2.30 – 2.40
<b>Cold Crushing Strength</b>	kg/cm <sup>2</sup>	> 700
<b>Apparent Porosity</b>	%	14-18
<b>Modulus of Rupture</b>	kg/cm <sup>2</sup>	80-120

#### **Thermomechanical Properties**

<b>Refractoriness under Load T05</b>	°C	1380-1430
<b>Reversible Linear Thermal Expansion (1400 °C)</b>	%	≈ 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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