



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### ALMA 85SP

<b>Classification:</b>	High Alumina Phosphate bonded Brick
<b>Main Raw Material Component:</b>	Bauxite (Rotary Kiln)
<b>Type Of Bond:</b>	phosphate Bonded
<b>P.C.E. (Equivalent temperature)</b>	>36 (1804°C)
<b>Main Applications:</b>	Various purposes; EAF roof, Rolling mill plants & Discharge zone of cement rotary kiln as well as Chemical & Nonferrous Industries, Lime kilns, Excellent resistance to high temperature, abrasion and corrosion.

<b>Chemical Composition</b> (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> %
82.5 – 84.5	8.5 – 10.5	1.3 – 1.8	2.5 – 3.5

<b>Physical Properties</b>		
<b>Bulk Density</b>	g/cm <sup>3</sup>	> 2.65
<b>Cold Crushing Strength</b>	kg/cm <sup>2</sup>	> 700
<b>Apparent Porosity</b>	%	< 19
<b>Modulus of Rupture</b>	kg/cm <sup>2</sup>	> 200

<b>Thermomechanical Properties</b>		
<b>Refractoriness under Load T05</b>	°C	Min 1450
<b>Reversible Linear thermal expansion (1400 °C)</b>	%	≈ 1.0

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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