



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA 80SP

Classification:	High Alumina Phosphate bonded Brick
Main Raw Material Component:	Bauxite (Rotary Kiln)
Type Of Bond:	phosphate Bonded
P.C.E. (Equivalent temperature)	> 36 (1804°C)
Main Applications:	Various purposes; Working & Safety layers in steel melting vessels, EAF roof, Rolling mill plants & high temp. zones of cement plants as well as Chemical & Nonferrous Industries

Chemical Composition (Calcined base)			
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %
78 – 81	8 – 12	1.5 – 2.5	2 – 3

Physical Properties		
Bulk Density	g/cm ³	> 2.65
Cold Crushing Strength	kg/cm ²	> 650
Apparent Porosity	%	< 20
Modulus of Rupture	kg/cm ²	> 150

Thermomechanical Properties		
Refractoriness under Load T05	°C	Min 1420
Reversible Linear thermal expansion (1400 °C)	%	≈ 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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