

IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMA 50 Z

Classification:	Medium Alumina Brick		
Main Raw Material Component:	Bauxite - Chamotte		
Type Of Bond:	Ceramic		
P.C.E. (Equivalent temperature)	> 33 (1743°C)		
Main Applications:	Various purposes ; Steel & Cement Industries (particularly end part of Safety zone of rotary kiln) as well as Chemical & Nonferrous Industries		

Chemical Composition						
(Calcined base)						
Al_2O_3 %	SiO _{2 %}	Fe_2O_3 %	TiO _{2 %}			
44 - 48	43-46	1.5 - 2.3	3.5 - 4.5			

Physical Properties					
Bulk Density	gr/cm ³	2.22-2.30			
Cold Crushing Strength	kg/cm ²	400-600			
Apparent Porosity	%	15-19			
Modulus of Rupture	kg/cm ²	80-150			

Thermomechanical Properties				
Refractoriness under Load T05	°C	Min 1400		
Reversible Linear thermal expansion (1100 °C)	%	pprox 0.9		

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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