

IRAN REFRACTORIES COMPANY



TECHNICAL DATA SHEET

ALMACAST

Temperature Service:	1650 °C		
Classification:	High Alumina Castable (medium cement).		
Main Raw Material Component:	Blended mixture of carefully sized Bauxite and low Iron calcium aluminate binder.		
Type Of Bond:	Hydraulic		
Grain Size	0 – 5 mm		
Water required For Pouring	9 – 11 %		
Dry Castable Required	2400 Kg/m ³		
Features and Main Applications:	Excellent workability and setting properties to provide high refractoriness, Volume stability and excellent thermal shock resistance. Recommended for most high temperature metallurgical furnaces. Particularly designed for casting monolithic hearths , walls , electric furnace roofs , burner blocks and ladle lining. Excellent workability and setting properties. Volume stability and excellent thermal shock resistance.		

Chemical Composition (Calcined base)					
Al ₂ O _{3 %}	SiO ₂ %	Fe ₂ O ₃ %	CaO %	TiO ₂ %	
68 - 70	21 - 23	1.5 - 2.0	2.0-3.0	2.0-3.0	

Thermomechanical Properties						
		After drying at 110°C	After heating at 1470°C			
Bulk Density	(Kg/m ³)	> 2450	_			
Cold Crushing Strength	(kg/cm ²)	220-450	500-700			
Modulus of Rupture	(kg/cm ²)	35-90	80-110			
Linear Change	(%)	Negligible	- 1.0 to 0.0			

All data based on cast specimens .ASTM procedures , where applicable , used for determination of data . For data of vibration cast or gunned , consult our sales & Engineering service's experts.

All data subject to reasonable deviations , and therefore , should not be used for specification purposes. ASTM Test Methods, where applicable, used for determination of data.

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