

IRAN REFRACTORIES COMPANY



TECHNICAL DATA SHEET

ALMACAST A80

Temperature Service:	1700 °C		
Classification:	High Alumina Castable .		
Main Raw Material Component:	Blended mixture of carefully sized high alumina aggregate and low Iron calcium aluminate binder.		
Type Of Bond:	Hydraulic		
Grain Size	0 - 3.6 mm		
Water required For Pouring	9 – 11 %		
Dry Castable Required	2500 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.		

Chemical Composition					
(Calcined base)					
Al ₂ O _{3 %}	SiO ₂ %	TiO _{2 %}	Fe ₂ O _{3 %}	CaO %	
79-81	10-13	2.0-3.0	1.5-2.0	4.0-6.0	

Thermomechanical Properties					
		After drying at 110°C	After heating at 1480 °C		
Bulk Density	(Kg/m ³)	> 2560	_		
Cold Crushing Strength	(kg/cm ²)	300-450	450-500		
Modulus of Rupture	(kg/cm ²)	80-120	120-180		
Linear Change	(%)	Negligible	- 2.0 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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