



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMACAST LC A80

Temperature Service:	1700 °C
Classification:	High Alumina Castable (Thixotropic Low cement)
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 – 5 mm
Water required For Pouring:	5 – 7 %
Dry Castable Required:	2600 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, Co resistance volume stability and excellent thermal shock resistance.

Chemical Composition (Calcined base)				
Al₂O₃ %	SiO₂ %	TiO₂ %	Fe₂O₃ %	CaO %
79-81	14-17	2.5-3.5	1.5-2.0	1.2-1.5

Thermomechanical Properties			
		<i>After drying at 110 °C</i>	<i>After heating at 1650 °C</i>
Bulk Density	(Kg/m ³)	> 2640	–
Cold Crushing Strength	(kg/cm ²)	600-800	600-800
Modulus of Rupture	(kg/cm ²)	100-150	100-150
Linear Change	(%)	Negligible	+0.5 to +1.5

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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