



IRAN REFRATORIES COMPANY

TECHNICAL DATA SHEET



ALMACAST S

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	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 rolling mill. Excellent workability and setting properties. Excellent abrasion resistance.

Chemical Composition (Calcined base)				
Al₂O₃ %	SiO₂ %	TiO₂ %	Fe₂O₃ %	CaO %
68-70	18-22	2.0-3.0	1.4-2.0	4.0-6.0

Thermomechanical Properties			
		<i>After drying at 110 °C</i>	<i>After heating at 1470 °C</i>
Bulk Density	(Kg/m ³)	> 2650	–
Cold Crushing Strength	(kg/cm ²)	250-450	500-700
Modulus of Rupture	(kg/cm ²)	40-90	80-110
Linear Change	(%)	Negligible	– 1.0 to +1.0

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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