



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMACAST GS

Temperature Service:	1650 °C
Classification:	High Alumina Castable (medium 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 – 3.5 mm
Water required For Pouring	7 – 9 %
Dry Castable Required	2600 Kg/m ³
Features and Main Applications:	Easily installed by gunning or troweling. Recommended for 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)						
Al₂O₃ %	SiO₂ %	TiO₂ %	MgO %	CaO %	Fe₂O₃ %	(Na₂O+ K₂O+ Li₂O) %
83	5.5	3.0	0.3	3.6	1.5	0.5

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)	300-500	600-900
Modulus of Rupture	(kg/cm ²)	50-150	100-250
Linear Change	(%)	Negligible	– 1.0 to – 3.0

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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