



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### ALMACAST G

<b>Temperature Service:</b>	1700 °C
<b>Classification:</b>	High Alumina Castable (medium cement).
<b>Main Raw Material Component:</b>	Blended mixture of carefully sized high alumina aggregate and low Iron calcium aluminate binder .
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size:</b>	0–3.5 mm
<b>Water required For Pouring:</b>	9 – 10 %
<b>Dry Castable Required:</b>	2600 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	Easily installed by gunning or troweling. Recommended for repairs of ladle free board. Excellent workability and setting properties.

<b>Chemical Composition</b> (Calcined base)				
<b>Al<sub>2</sub>O<sub>3</sub> %</b>	<b>SiO<sub>2</sub> %</b>	<b>TiO<sub>2</sub> %</b>	<b>Fe<sub>2</sub>O<sub>3</sub> %</b>	<b>CaO %</b>
83-86	4.0-6.0	2.5-3.5	1.2-1.8	4.0 – 6.0

<b>Thermomechanical Properties</b>			
		<i>After drying at 110 °C</i>	<i>After heating at 1500 °C</i>
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	> 2650	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	300-450	450-500
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	80-100	120-180
<b>Linear Change</b>	( %)	Negligible	–

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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