



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IRECAST HB(LI)

<b>Temperature Service:</b>	1650 °C
<b>Classification:</b>	Medium Alumina, Low Iron castable
<b>Main Raw Material Component:</b>	Bauxite - Low Iron chamott & calcium – aluminate binder
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size</b>	0 – 5 mm
<b>Water required For Pouring</b>	9 – 12 %
<b>Dry Castable Required</b>	2250 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	Developed for use in extreme abrasion applications in equipment such as cyclones & piping, materials handling equipment, rotary kilns & etc. Excellent strength throughout its temperature range. Stable withstand CO and alkali atmospheres. Adaptable for gunning, casting, or troweling. Highly abrasion resistant. Must be pre dampened before gunning .

<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>
59 – 61	28-30	<1.9	<1.7	4.0 – 5.0

<b>Thermomechanical Properties</b>			
		<i>After drying at 110 °C</i>	<i>After heating at 1480 °C</i>
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	> 2290	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	> 700	> 800
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	> 80	> 90
<b>Linear Change</b>	( %)	Negligible	– 1.8 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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