



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IRECAST H LI

<b>Temperature Service:</b>	1570 °C
<b>Classification:</b>	Medium Alumina, Low Iron castable
<b>Main Raw Material Component:</b>	Super duty Low Iron chamott & calcium – aluminate binder
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size:</b>	0 – 4 mm
<b>Water required For Pouring:</b>	9 – 11 %
<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. Highly abrasion resistant. Excellent strength throughout its temperature range. CO resistance and excellent thermal shock resistance. Adaptable for gunning, casting or troweling. Must be pre dampened before gunning .

#### Chemical Composition (Calcined base)

Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	TiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	CaO %
50-53	38-40	1.5-2.0	1.3-1.6	3.5-5.0

#### Thermomechanical Properties

		After drying at 110 °C	After heating at 1480 °C
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	> 2290	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	300-600	500-800
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	60-120	60-120
<b>Linear Change</b>	( %)	Negligible	– 0.8 to +0.5

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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