



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IRECAST HB

Temperature Service:	1630 °C
Classification:	Medium Alumina castable
Main Raw Material Component:	Bauxite - chamott & calcium – aluminate binder .
Type Of Bond:	Hydraulic
Grain Size	0 – 5 mm
Water required For Pouring	9 – 11%
Dry Castable Required	2250 Kg/m ³
Features and Main Applications:	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. Adaptable for gunning, casting, or troweling. Highly abrasion resistant. Must be pre dampened before gunning.

Chemical Composition (Calcined base)				
Al₂O₃ %	SiO₂ %	TiO₂ %	Fe₂O₃ %	CaO %
59 – 61	28 – 30	1.5–2.5	1.5 – 2.5	4.0 – 5.0

Thermomechanical Properties			
		<i>After drying at 110 °C</i>	<i>After heating at 1480 °C</i>
Bulk Density	(Kg/m ³)	> 2290	–
Cold Crushing Strength	(kg/cm ²)	300-600	500-800
Modulus of Rupture	(kg/cm ²)	60-120	60-90
Linear Change	(%)	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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