



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IRECAST H AR

Temperature Service:	1550 °C
Classification:	Medium Alumina, Alkali resistance castable
Main Raw Material Component:	Super duty chamotte with SiC content & 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:	Excellent strength throughout its temperature range. Developed for use in extreme abrasion applications in equipment such as cyclones & piping, materials handling equipment, rotary kilns & etc. Adaptable for gunning, casting, or troweling. Highly abrasion resistant. Must be pre dampened before gunning.

Chemical Composition (Calcined base)						
Al₂O₃ %	SiO₂ %	TiO₂ %	MgO %	CaO %	Fe₂O₃ %	SiC %
51	37.3	1.4	0.4	3.5	1.45	4.5

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	60-120
Linear Change	(%)	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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