

IRAN REFRACTORIES COMPANY



TECHNICAL DATA SHEET

IREFCAST HB (AR)

Temperature Service:	1600 °C				
Classification:	Medium Alumina, Alkali resistance castable				
Main Raw Material Component:	Bauxite- chamott 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:	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. High resistance to thermal shock and mechanical abuse. Highly abrasion resistant. Stable withstand CO and alkali atmospheres. Recommended for Cement Industries as well as Nonferrous Industries. Adaptable for gunning, casting, or troweling. Must be pre dampened before gunning.				

Chemical Composition (Calcined base)							
Al ₂ O _{3 %}	SiO ₂ %	TiO ₂ %	MgO %	CaO %	Fe ₂ O _{3 %}	SiC %	
60	27.5	1.7	0.4	3.8	1.7	4.5	

Thermomechanical Properties							
		After drying at 110°C	After heating at 1480°C				
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	-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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