



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



IREFCAST ES

Max. Temperature Service:	1320 °C
Classification:	Fireclay Base Cast able with Hydraulic Binder
Main Raw Material Component:	High quality chamotte & calcium – aluminate binder
Type Of Bond:	Hydraulic
Grain Size:	0 – 5 mm
Water required For Pouring:	13 – 14 %
Dry Castable Required:	2150 Kg/m ³
Features and Main Applications:	High strength refractory cast able, Resistant to mechanical impact & abrasion. Conforms to ASTM classification C 401 – 68 Class A & B various purposes; Steel & Cement Industries (particularly preheater) as well as Chemical & Nonferrous Industries, Lime kilns. Can be installed by casting , ramming , gunning or troweling .

Chemical Composition (Calcined base)				
Al₂O₃ %	SiO₂ %	Fe₂O₃ %	TiO₂ %	CaO %
43 – 46	32 – 34	6.0 – 8.0	4.0 – 5.0	9 – 11

Thermomechanical Properties			
		<i>After drying at 110 °C</i>	<i>After heating at 1260 °C</i>
Bulk Density	(Kg/m ³)	> 2210	–
Cold Crushing Strength	(kg/cm ²)	> 250	> 200
Modulus of Rupture	(kg/cm ²)	40-100	30-70
Linear Change	(%)	Negligible	– 2.0 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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