



IRAN REFRATORIES COMPANY

TECHNICAL DATA SHEET



IRECAST ESLIC(AR)

Max. Temperature Service:	1425 °C
Classification:	Fireclay base castable with low iron hydraulic binder.
Main Raw Material Component:	High quality chamotte - SiC & calcium – aluminate binder .(Coarse)
Type Of Bond:	Hydraulic
Grain Size	0 – 19 mm
Water required For Pouring	11 – 14 %
Dry Castable Required	2080 Kg/m ³
Features and Main Applications:	Excellent strength throughout its entire temperature range, Iron content not over 3 %. High resistance to Mechanical impact and abrasion. Stable withstand CO and alkali atmospheres. Recommended for Cement Industries (particularly Inlet zone of rotary kiln) as well as Nonferrous Industries. High resistance to thermal shock and mechanical abuse. Excellent compressive and load bearing qualities. Most suitable for massive sections.

Chemical Composition (Calcined base)

Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	SiC %	CaO%	(Na ₂ O+ K ₂ O+ Li ₂ O) %
48 – 50	28 – 30	2.1-2.7	5.0	9 – 11	1.0-1.3

Thermomechanical Properties

		After drying at 110 °C	After heating at 1370 °C
Bulk Density	(Kg/m ³)	> 2300	–
Cold Crushing Strength	(kg/cm ²)	250-500	200-300
Modulus of Rupture	(kg/cm ²)	60-110	50-110
Linear Change	(%)	Negligible	+ 0.5 to + 3.0

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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