



IRAN REFRATORIES COMPANY

TECHNICAL DATA SHEET



IRECAST LC -50

Max. Temperature Service:	1450 °C
Classification:	Fireclay base cast able with low iron 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:	8 – 10 %
Dry Castable Required:	2040 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 . May be cast, troweled or rammed .

Chemical Composition (Calcined base)						
Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %	CaO %	MgO %	(Na ₂ O+ K ₂ O+ Li ₂ O) %
49.7	37.4	2.5	3.41	4.30	0.35	1.0

Thermomechanical Properties			
		After drying at 110 °C	After heating at 1370 °C
Bulk Density	(Kg/m ³)	> 2300	–
Cold Crushing Strength	(kg/cm ²)	200-400	400-700
Modulus of Rupture	(kg/cm ²)	30-60	100-140
Linear Change	(%)	Negligible	–0.5 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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