



IRECAST ESC

Max. Temperature Service:	1340 °C
Classification:	Fireclay Base Castable with Hydraulic Binder Coarse Aggregate
Main Raw Material Component:	High quality chamotte & calcium – aluminate binder .(Coarse)
Type Of Bond:	Hydraulic
Grain Size:	0 – 12 mm
Water required For Pouring:	10 – 12 %
Dry Castable Required:	2140 Kg/m ³
Features and Main Applications:	High strength refractory castable, Resistant to mechanical impact & abrasion. Recommended for various purposes; Steel & Cement Industries (particularly preheater) as well as Chemical & Nonferrous Industries, Lime kilns. Particularly adapted for casting massive, heavy sections. It has high compressive strength & good abrasion resistance. Low shrinkage , good resistance to spalling & thermal cycling .

Chemical Composition (Calcined base)				
Al₂O₃ %	SiO₂ %	Fe₂O₃ %	TiO₂ %	CaO %
41 – 44	32 – 34	7.0 – 8.0	3.5 – 4.5	10.5 – 12.0

Thermomechanical Properties			
		<i>After drying at 110 °C</i>	<i>After heating at 1260 °C</i>
Bulk Density	(Kg/m ³)	> 2340	–
Cold Crushing Strength	(kg/cm ²)	> 250	> 200
Modulus of Rupture	(kg/cm ²)	> 30	> 20
Linear Change	(%)	Negligible	– 0.7 to – 0.1

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.

Revision:5

Date of issue: 1397/09/05

Code: IRF-ST-Q-860-19

Revision:00