



IREFCAST 23 ES

Max. Temperature Service:	1260 °C
Classification:	Light weight cast able
Main Raw Material Component:	Blended cast able employing calcined clays , firm lightweight aggregates & calcium – aluminate binder
Type Of Bond:	Hydraulic
Grain Size	0 – 5 mm
Water required For Pouring	29 – 36 %
Dry Castable Required	1435 Kg/m ³
Features and Main Applications:	Low Thermal Conductivity , High Strength, Hydraulic Bonded, Excellent volume stability. Recommended for Chemical & Petrochemical Industries, Various industrial furnaces , boilers , incinerators , stacks and as backup for other refractories suitable for greater mechanical abuse and higher temperatures. Combines good strength with high insulating value .

Chemical Composition (Calcined base)

Al ₂ O ₃ %	SiO ₂ %	Fe ₂ O ₃ %	TiO ₂ %	CaO %
37 – 40	36 – 40	5.0-7.0	2.8 – 3.2	9.5 – 12.5

Thermomechanical Properties

		After drying at 110 °C	After heating at 1200 °C
Bulk Density	(Kg/m ³)	< 1500	–
Cold Crushing Strength	(kg/cm ²)	> 30	> 30
Modulus of Rupture	(kg/cm ²)	10-35	9-15
Linear Change	(%)	Negligible	– 1.8 to – 1.2

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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