



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IREFCAST 23 ESLIS

<b>Max. Temperature Service:</b>	1290 °C
<b>Classification:</b>	Light weight cast able
<b>Main Raw Material Component:</b>	Blended cast able employing Low Iron calcined clays , firm lightweight aggregates & calcium – aluminate binder
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size</b>	0 – 5 mm
<b>Water required For Pouring</b>	29 – 36 %
<b>Dry Castable Required</b>	1435 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	Low Thermal Conductivity, Intermediate Strength, Hydraulic Bonded, Stable withstand CO and alkali atmospheres. Wherever reduction resistance required; particularly in Iron ore pelletizing plants and 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.

<b>Chemical Composition</b> (Calcined base)			
<b>Al<sub>2</sub>O<sub>3</sub> %</b>	<b>SiO<sub>2</sub> %</b>	<b>Fe<sub>2</sub>O<sub>3</sub> %</b>	<b>CaO %</b>
35-40	37-40	< 1.7	10 – 12

<b>Thermomechanical Properties</b>			
		<i>After drying at 110 °C</i>	<i>After heating at 1200 °C</i>
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	< 1500	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	> 30	> 30
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	20-35	8-15
<b>Linear Change</b>	( %)	Negligible	– 1.8 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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