



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IREFGUN 23 ES

<b>Max. Temperature Service:</b>	1260 °C
<b>Classification:</b>	Light weight Gunning mix.
<b>Main Raw Material Component:</b>	Blended gunable 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>Features and Main Applications:</b>	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 .

<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>TiO<sub>2</sub> %</b>	<b>CaO %</b>
37 – 40	36 – 40	5.0 – 7.0	2.8 – 3.2	9.5 – 12.5

<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> )	10-35	9-15
<b>Linear Change</b>	( %)	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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