



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IREFGUN 27

<b>Max. Temperature Service:</b>	1450 °C
<b>Classification:</b>	Fireclay base Gunning mix with low iron hydraulic binder
<b>Main Raw Material Component:</b>	High quality Low Iron chamotte & calcium-aluminate binder
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size:</b>	0 – 5 mm
<b>Water required For Pouring</b>	10 – 12 %
<b>Features and Main Applications:</b>	Excellent strength throughout its entire temperature range, Iron content not over 3 % High resistance to Mechanical impact and abrasion. May be gunned, troweled or rammed. Recommended for various purposes; Steel & Cement Industries (particularly preheater) as well as Chemical Industries. Excellent strength throughout its entire temperature range, Iron content not over 3 % High resistance to mechanical impact and abrasion. Fast erection.

<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>
44-48	32-36	2.0-3.0	4.0-5.0	9 – 11

<b>Thermomechanical Properties</b>			
		<i>After drying at 110 °C</i>	<i>After heating at 1370 °C</i>
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	> 2150	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	350-500	250-450
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	50-90	50-100
<b>Linear Change</b>	( %)	Negligible	+0.5 to + 2.5

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.

Revision:1

Date of issue: 1397/09/05

Code: IRF-ST-Q-860-19

Revision:00