



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### IRECAST 18 LI

<b>Max. Temperature Service:</b>	980 °C
<b>Classification:</b>	Very Light weight castable
<b>Main Raw Material Component:</b>	Fireclay & calcium – aluminate binder
<b>Type Of Bond:</b>	Hydraulic
<b>Water required For Pouring</b>	48 – 64 %
<b>Dry Castable Required</b>	700 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	Low Thermal Conductivity. Excellent resistance to thermal shock. Easily installed by casting or troweling & may be gunned. Recommended for Chemical & Petrochemical Industries, Various industrial furnaces , boilers, incinerators, stacks and as backup for other refractories.

<b>Chemical Composition</b> (Calcined base)			
<b>Al<sub>2</sub>O<sub>3</sub> %</b>	<b>SiO<sub>2</sub> %</b>	<b>TiO<sub>2</sub> %</b>	<b>CaO %</b>
25 – 30	45 – 50	2.5 – 3.5	10 – 16

<b>Thermomechanical Properties</b>		
<i>After drying at 110 °C</i>		
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	<780
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	> 20
<b>Linear Change</b>	( %)	Negligible

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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