



# IRAN REFRACTORIES COMPANY

## TECHNICAL DATA SHEET



### KORACAST

<b>Temperature Service:</b>	1750 °C
<b>Classification:</b>	High Alumina Castable
<b>Main Raw Material Component:</b>	Blended mixture of Tabular alumina and low Iron calcium aluminate binder.
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size</b>	0 – 6.5 mm
<b>Water required For Pouring</b>	8 – 10 %
<b>Dry Castable Required</b>	2640 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	High refractoriness, excellent strength and abrasion resistance. Resistant to ferrous and non – ferrous metals and associated slags. High stability under reducing and other special atmospheres. May be cast , rammed , gunned , or troweled into place .

#### Chemical Composition (Calcined base)

Al <sub>2</sub> O <sub>3</sub> %	SiO <sub>2</sub> %	CaO %
90-93	1.0-1.5	3.0-5.0

#### Thermomechanical Properties

		After drying at 110 °C	After heating at 1600 °C
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	> 2730	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	500-700	550-700
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	90-120	100-140
<b>Linear Change</b>	( %)	Negligible	– 0.5 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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