



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



KORAPLAST

Temperature Service:	1750 °C
Classification:	High alumina chemical bonded plastic refractory
Main Raw Material Component:	Blended mixture of Tabular alumina and chemically binder.
Type Of Bond:	Chemical Bonded
Dry Material Required:	3050 Kg/m ³
Features and Main Applications:	Various purposes ;Steel & Chemical Industries .Where excellent resistance to temperature, slagging, spalling and abrasion is required in dry skid hearths of reheating furnaces, soaking pit lower sidewalls and bottom, forge furnace hearths, nonferrous furnaces, ladles, electric furnace and cupola spouts, boilers and other high temperature applications .

Chemical Composition (Calcined base)

Al ₂ O ₃ %	SiO ₂ %	TiO ₂ %	MgO %	CaO %	Fe ₂ O ₃ %	(Na ₂ O+ K ₂ O+ Li ₂ O) %
>87	9-10	<0.15	<0.15	<0.15	<0.14	<0.8

Thermomechanical Properties

		After drying at 110 °C	After heating at 1650 °C
Bulk Density	(Kg/m ³)	> 2950	–
Cold Crushing Strength	(kg/cm ²)	120-140	550-650
Linear Change	(%)	– 0.4 to – 0.2	– 0.8 to – 0.4

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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