



IRAN REFRACTORIES COMPANY

TECHNICAL DATA SHEET



ALMAPLAST L

Temperature Service:	1650 °C
Classification:	High alumina chemically bonded plastic refractory
Main Raw Material Component:	Bauxite
Type Of Bond:	Chemical Bonded
Dry Material Required:	2931 Kg/m ³
Features and Main Applications:	High strength and density combined with excellent volume stability. Throughout entire temperature range. Displays non – wetting characteristics to provide outstanding resistance to erosion from slag and metal wash. 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) %
75-77	14-16	2.0-3.0	0.2-0.4	0.5-0.9	1.5-2.0	0.5-0.8

Thermomechanical Properties

		After drying at 110 °C	After heating at 1400 °C
Bulk Density	(Kg/m ³)	> 2770	–
Cold Crushing Strength	(kg/cm ²)	90-110	320-400
Modulus of Rupture	(kg/cm ²)	25-35	110-135
Linear Change	(%)	– 0.3 to – 0.6	+0.6 to + 0.7

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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