

IRAN REFRACTORIES COMPANY



TECHNICAL DATA SHEET

ALMAPLAST

Temperature Service:	1705 °C			
Classification:	High alumina chemically bonded plastic refractory			
Main Raw Material Component:	Bauxite			
Type Of Bond:	Chemical Bonded			
Dry Material Required	2931Kg/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 %}	$(Na_2O_+\ K_2O+\ Li_2O)_{\%}$	
82.1	11.5	2.4	0.2	0.1	1.0	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)	282-352	528-635				
Modulus of Rupture	(kg/cm ²)	77-106	99-155				
Linear Change	(%)	-0.4 to -0.2	+ 0.6 to +1.0				

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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