



THE QUALITY OF HIGH ALUMINA BRICK-BAUXITE SERIES

In early time, most high alumina bricks are made of bauxite, an abundant mineral ore on earth. They are high in density and good resistance to wear, spalling, and slag corrosion. These high alumina bricks vary slightly in resistance to corrosion and spalling according to the

content of Al_2O_3 contained. The features are:

- Good resistance to spalling and slag corrosion.
- Good resistance to thermal shock and wear.
- Stable in various atmospheres.
- Good strength at high temperature.

Typical Properties

Brand		Properties				
		ALT-85P	ALT-80CR	AL-CR	ALT-80	ALT-60
Refractoriness(SK)		> 38	> 38	> 38	> 38	> 37
Apparent Porosity(%)		21.0	19.0	15.5	19.0	18.0
Bulk Density(g /cm ³)		2.75	2.90	3.26	2.80	2.50
Cold Crushing Strength (kg f /cm ²)		450	1000	1342	700	450
Refractoriness under load (T ₂ °C)Load:2kgf/cm ²		> 1520	> 1520	> 1400	> 1520	> 1480
Permanent Linear Change (%) 1500°C -2hrs		±0.6	±0.6	±0.6	±0.6	±0.6
Thermal Expansion (%) at 1000°C		< 0.8	< 0.8	< 0.8	< 0.8	< 0.6
Chemical Composition(%)	Al ₂ O ₃	> 84	81	86.8	80.7	> 60
	Cr ₂ O ₃	—	3	9.9	—	—
	Fe ₂ O ₃	< 2.5	—	0.3	1.5	< 2.5
Characteristics		Corrosion & Spalling resistance	—	Corrosion resistance	—	Corrosion resistance
Main Application		Electric arc furnace etc.	—	Ladle etc.	—	Incinerators