



THE QUALITY OF ORDINARY FIRECLAY BRICKS

Fireclay refractories used as raw materials are essentially hydrated alumina silicates. They are made from selected chamotte (calcined fireclay) as aggregates and fireclay as binder. The Al₂O₃ % is below 45 and the highest refractoriness is SK34. It is usually classified as general, hard and special fireclay bricks.

Fireclay bricks are the most important and widely used

refractories inspite of their cheapness. Because of their wide range in properties, fireclay bricks take place with other refractories in use for all pyro-processing furnaces. Kuan-Ho produces various fireclay bricks under strict quality control. We are sure that our products can meet the requirements of customers.

Typical Properties

Brand		Properties			
		FC-6	FC-5	FC-4	FC-2
Refractoriness(SK)		> 34	> 33	> 32	> 30
Apparent Porosity(%)		18	14.9	20	22
Bulk Density(g /cm ³)		2.25	2.25	2.25	2.15
Cold Crushing Strength (kg f/cm ²)		420	520	370	350
Refractoriness under load (T ₂ °C)Load:2kgf/cm ²		> 1350	> 1350	—	—
Permanent Linear Change (%) 1350°C –2hrs		< –0.6	< –0.6	—	—
Thermal Expansion (%) at 1000°C		< 0.6	< 0.6	—	—
Chemical Composition(%)	Al ₂ O ₃	44	45.7	40	38
	Fe ₂ O ₃	1.6	1.8	1.8	1.8
Characteristics		—	—	—	—
Main Application		—	—	—	—