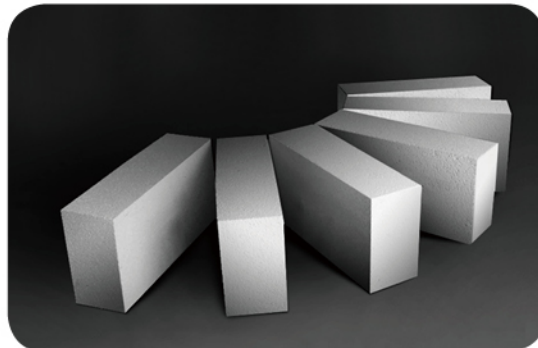


## INSULATING FIREBRICK

Luyang Insulating Firebrick is made from high-purity refractory powder and organic fillers which burn out during manufacture to give a uniform and controlled pore structure. The brick is compressed in vacuum and sintered under high temperature. Luyang Insulating Firebrick is widely used as hot face refractory lining or back-up insulation in various kinds of industrial furnaces.



### Features

Excellent thermal shock resistance  
Accurate and customized dimension  
High crushing strength  
Low thermal conductivity  
Low heat storage

### Typical Applications

Metallurgy industry  
Petrochemical industry  
Ceramics industry  
Aluminum industry  
Glass industry

### Typical Parameters

Description	GRADE 23 BRICK	GRADE 26 BRICK	GRADE 28 BRICK	GRADE 30 BRICK
Classification Temperature (°C)	1300	1400	1500	1550
Chemical Composition (%)				
Al <sub>2</sub> O <sub>3</sub>	40	56	67	73
SiO <sub>2</sub>	51	41	30	24
Fe <sub>2</sub> O <sub>3</sub>	≤1.0	≤0.8	≤0.7	≤0.6
Density (kg/m <sup>3</sup> )	600	800	900	1000
Modulus of Rupture (MPa)	0.9	1.5	1.8	2.0
Cold Crushing Strength (MPa)	1.2	2.4	2.6	3.0
Permanent Linear Change (%)	1230°C x24h≤0.3	1400°C x24h≤0.6	1510°C x24h≤0.7	1620°C x24h≤0.9
Thermal Conductivity (W/m·K)				
200°C	0.15	0.23	0.27	0.28
350°C	0.18	0.24	0.30	0.35
400°C	0.19	0.25	0.33	0.38
600°C	0.23	0.27	0.38	0.40

The data shown are typical average results of tests under standard procedures and are subject to variation. Results should not be used for specification purposes or creating any contractual obligation. For more information on the safety application or materials, please refer to the work practices and material safety data sheet.