



## THE QUALITY OF PYROPHYLLITE & ZIRCON BRICKS

Pyrophyllite and zircon bricks possess excellent resistance to slag and glass corrosion. Zircon bricks keep a stable hot volume and good resistance to spalling. Both are widely used in iron and steel industry, especially in steel ingot casting. They are the most suitable liners for ladle, tundish and runner. Kuan-Ho produces various pyrophyllite and zircon refractories by using high purity

raw materials, adequate molding and firing. The testing results firmly prove that our pyrophyllite and zircon bricks can meet the requirements in continuous steel casting. Stopper bricks, characterized by its high resistance to corrosion, are our new developments appreciated by our customers.

### Typical Properties

Brand		Properties					
		ZR-65	ZR-60	AZS	ZH-1	RK28	AZ-1
Refractoriness(SK)		> 37	> 35	> 38	> 37	> 28	> 38
Apparent Porosity(%)		19.0	21.0	16.9	20.0	12.1	16.5
Bulk Density(g /cm <sup>3</sup> )		3.55	3.50	3.30	3.40	2.28	3.25
Cold Crushing Strength (kgf /cm <sup>2</sup> )		800	500	860	520	450	1200
Refractoriness under load (T <sub>2</sub> °C)Load:2kgf/cm <sup>2</sup>		> 1600	> 1500	> 1600	1600	> 1400	> 1650
Permanent Linear Change (%) 1500°C -2hrs		±0.2	±0.2	±0.2	±0.4	+3.5	±0.2
Thermal Expansion (%) at 1000°C		<0.6	<0.6	<0.6	<0.4	<0.7	<0.5
Chemical Composition(%)	SiO <sub>2</sub>	36.0	42.0	15.2	26.8	77.0	—
	Al <sub>2</sub> O <sub>3</sub>	—	—	56.1	—	21.0	94.0
	ZrO <sub>2</sub>	60.0	55.0	26.1	48.4	—	5.0
Characteristics		Corrosion resistance	Corrosion resistance	Corrosion resistance	Corrosion resistance	—	Corrosion resistance
Main Application		Ladle etc.	Ladle etc.	Various furnace	Stopper head etc.	Ladle etc.	Chemical Industry



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