

Rongsheng High Alumina Bricks Physical and Chemical Index Tables

1. Technique Data of High Alumina Brick

Item	Specification					
	LZ-80	LZ-75	LZ-70	LZ-65	LZ-55	LZ-48
Al ₂ O ₃ %	≥80	≥75	≥70	≥65	≥55	≥48
Apparent Porosity, %	≤21	≤24	≤24	≤24	≤22	≤22
CCS, MPa	≥70	≥60	≥55	≥50	≥45	≥40
0.2MPa RUL °C	≥1530	≥1520	≥1510	≥1500	≥1450	≥1420
PLC, %	1500°C × 2h -0.4~0.2		1450°C × 2h -0.4~0.1			

2. Technique Data of Light Weight High Alumina Brick

Item	Specification				
	LG-1.2	LG-1.0	LG-0.8	LG-0.7	LG-0.6
Al ₂ O ₃ %	≥48				
Fe ₂ O ₃ %	≤2				
Bulk Density, g/cm ³	≤1.2	≤1.0	≤0.8	≤0.7	≤0.6
CCS, MPa	≥4.5	≥3.5	≥2.5	≥2.2	≥1.6
PLC, %	1400°C × 12h ≤-2			1350°C × 12h ≤-2	
Thermal Conductivity, W/(m·K) 350±25°C	≤0.55	≤0.50	≤0.35	≤0.30	≤0.25

3. Technique Data of Poly Light High Alumina Brick

Item	Specification	
	GJQ1.0	GJQ0.8
Al ₂ O ₃ %	≥48	
Fe ₂ O ₃ %	≤2	
Bulk Density g/cm ³	≤1.0	≤0.8
CCS MPa	≥3.5	≥2.5
Thermal Conductivity, W/(m·K) 350±25°C	≤0.5	≤0.35
PLC % 1350°C × 2h	-2.0~1.0	

4. Technique Data of Phosphate Bonded High Alumina Brick

Item	Specification		
	PA	PW	SP
Al ₂ O ₃ %	≥75	≥77	≥80
Fe ₂ O ₃ %	≤2.5	≤2.1	≤1.8
CCS, MPa	≥70	≥75	≥80
Bulk Density, g/cm ³	≥2.70	≥2.65	≥2.90
0.2MPa RUL °C	≥1350	≥1300	≥1520
TSR, Cycle 1100°C Water	≥20	≥20	≥20

5. Technique Data of Anti-stripping High Alumina Brick

Item	Specification	
	GKBL70	KBL75
Al ₂ O ₃ %	≥70	≥75
ZrO ₂ %	≥6.0	/
Fe ₂ O ₃ %	≤1.5	≤1.5
Bulk Density, g/cm ³	≥2.55	≥2.6
Apparent Porosity, %	≤22	≤20
CCS, MPa	≥60	≥70
0.2MPa RUL °C	≥1470	≥1520
TSR, Cycle 1100°C Water	≥25	≥20