



The influence of firing temperature and alumina type on calcium hexaluminate synthesis in lightweight refractories is investigated. It is established that at  $1700^{\circ}$  <sub>6</sub> synthesis ends irrespective of dispersity and phase composition of alumina in the initial mix. It is efficient to use alumina of G grade and to fire products at temperature range of 1550-1650 for production of calcium hexaluminate lightweight refractories.





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7-8 %

[8].



«0»,

«1» «3»,

 $-Al_2O_3$ .

 $1200\ensuremath{\,^\circ}$  ,

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			, % .		
	, °	, / <sup>3</sup>	$A_6$	-Al <sub>2</sub> O <sub>3</sub>	$A_2$
0	1400	1,43		65-70	30-35*
1		0,98	45-50	25-30	20-25
2		0,94	75-80	10-15	8-10
3		1,15	50-55	30-35	8-12
0	1550	1,62	50-55	30-35	12-15
1		1,26	86-88	10-13	1-2
2		1,01	84-87	10-14	2-3
3		1,22	88-92	7-10	1
0	1650	1,80	68-72	22-28	5-7
1		1,30	88-92	7-10	1
2		1,13	84-87	10-14	2-3
3		1,26	90-93	7-10	
0	1700	2,43	84-86	14-16	
1		1,54	90-93	7-10	
2		1,46	90-93	7-10	
3		1,34	90-93	7-10	
* _	A <sub>2</sub>				





## 1700 °









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621.928+622.74



The analysis of job process and modeling of mathematical for vibrating screen with hydraulic drive for transport and classification of various a mountain material are given, on the basis analyse of which the studying of quality and quantity dependants of technical characteristics of equipment from constructive, power and energy parameters is taken place.



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