666.762.11-127

 $1700~^{\circ}$ 1550-1650°.

The influence of firing temperature and alumina type on calcium hexaluminate synthesis in lightweight refractories is investigated. It is established that at 1700 ° 6 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.

 $-Al_2O_3$ 5 1850° [1, 2]. [3] 1600 ° . . . [4], 1200° 1400° 2) $1600\,^{\circ}$. [5, 6] [7]:

7-8 % 6 [8]. -00 . 1.

1

-00 Al_2O_3 () () 0 + + + + -2 + + +

, CaCO₃ (). Al_2O_3 (1200, 1400, 1550, 1650 1700 ° 2 -8. 2 N = 1,730,N =1,754 1,767. (Ni--1,5 1,2-2 = 4 - 120. «0» 1200° Al_2O_3 4-12 . . [4], 1400° . 2, 30-2 35 % 1550, 1650 1700°

6

3

7,5 %

14-16 %

 Al_2O_3

1700°

1700°

«1», «2», «3»

1200°,
«0»,
«1» «3»,

, -Al₂O₃.

2

			, % .		
	, °	, / 3	A_6	-Al ₂ O ₃	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	

* - A₂

 A_2 . («1») 40 **4**−2θ 60 1,2,3, - CA₆, - - l₂O₃ . 1. 1400 : 1400° 1550 ° -Al₂O₃ 1650 ° .

5

«3»,

1550-1650

1700 °	
: 90-93 % . ₆ 7-10 %Al ₂ O ₃ .	-
, 1700° .	-
4 . , ,	-
1550-1650 ° . - «3»³,	-
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	, -
(. 2): , (2). ₆ (1), ₆ - 1-3 .	- -
0,8 3-5 .	
T MAIM.	
. 2. «3», 1 – ₆ ; 2 –	6
,	- -
,	-

, 1970. – 544 . **2.** 3. -Al₂O₃ // 4. – . 529-532. **4.** // . , 1963. — .7. - . 318–329. **5.** Cinibulk M.K. Effect of precursors and dopants on the synthesis and grain growth of calcium hexaluminate // J. Amer. Ceram. Soc. - 1998. - Vol. 81, No 12. -P. 3157-3168. 6. Low-temperature synthesis of calcium hexaaluminate / Vipin Kant Singh, Krishna Kumar Sharma // J. Amer. Ceram. Soc. – 2002. – Vol. 84, No 4. – P. 769-772. 7. . – , 1961. – . 242-252. **8.** . . . // , 2004. – 104. – . 3-9. 621.928+622.74

, 1992. – 172 .

 $1,1 / ^3 /$

16.09.06.

. – 1949. – . 64,

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.

[1-3].

[5, 6 .1

7

1550-1650°.