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• • • -
• • • 4,5 % 3 % -
• • •

Research of influence cyanite and zircon on physical and ceramic properties fireclay refractory. It is established, that cyanite intensifies process myllitization both in grains, and in a binding part refractory. For manufacturing fireclay refractory for liner rotating furnaces use of zircon of 4,5 % or cyanite 3 % that allows to increase substantially stability of clinker is rational.

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• • • [1].
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, -
 .
 63 % , 20 % 17 % -
 , -
 .
 6 % 0 %; 1,5 %; 3 %; 4,5 %
 0 %; 3 %; 6 %; 9 %; 12 % 15 % .
 , -
 , .
 0,088 .
 -
 .
 ,
 , -
 .
 [2].
 , 10 18 .
 1480 ° 40 .
 ,
 0 4,5 % -
 16,50 % 15,11 %, .
 6 % 0
 3 % , -
 (. 1).
 0 6 %
 2,3 / ³, -
 2,19 / ³ (. 2).
 0 3% -

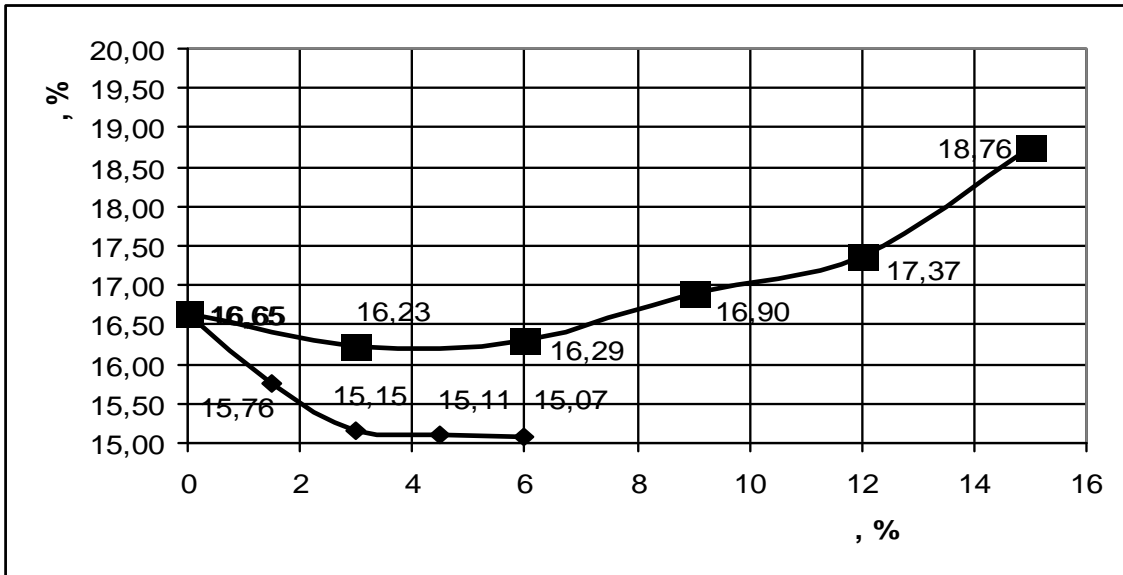
35

48

-
0

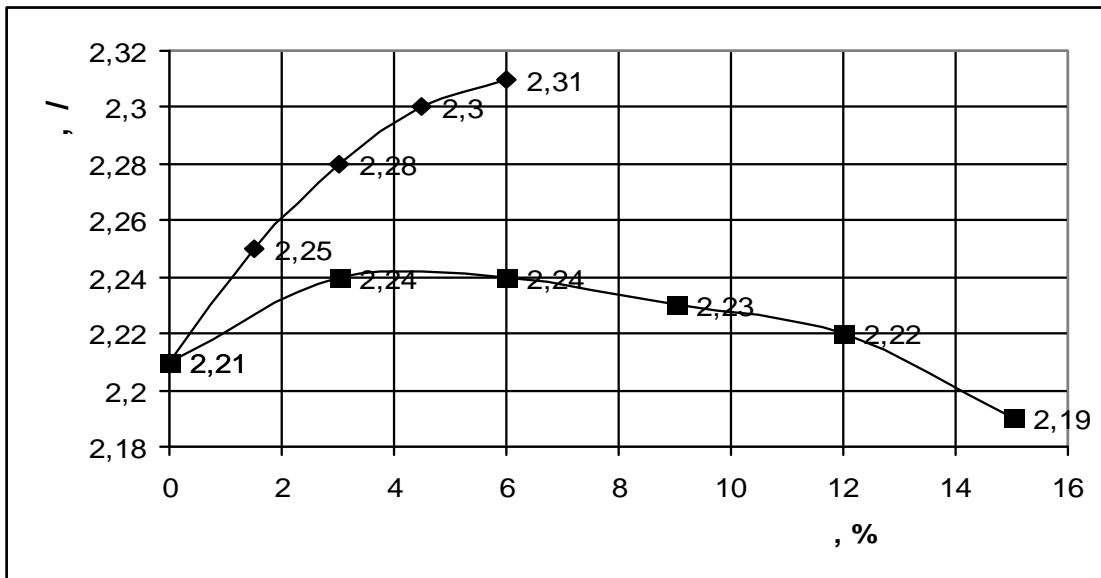
9 %

50 (. 3).



. 1.

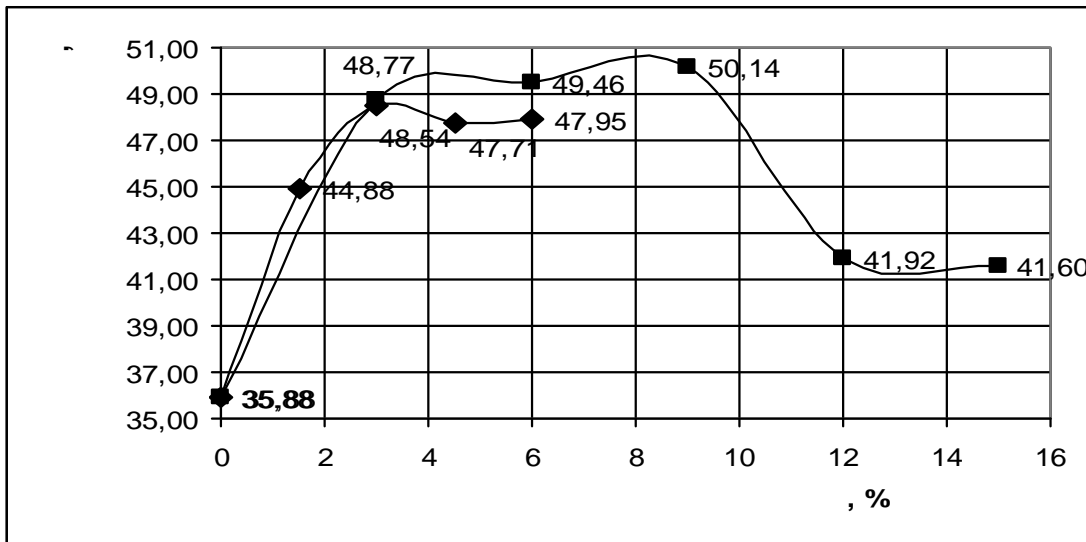
◆ - , ■ -



. 2.

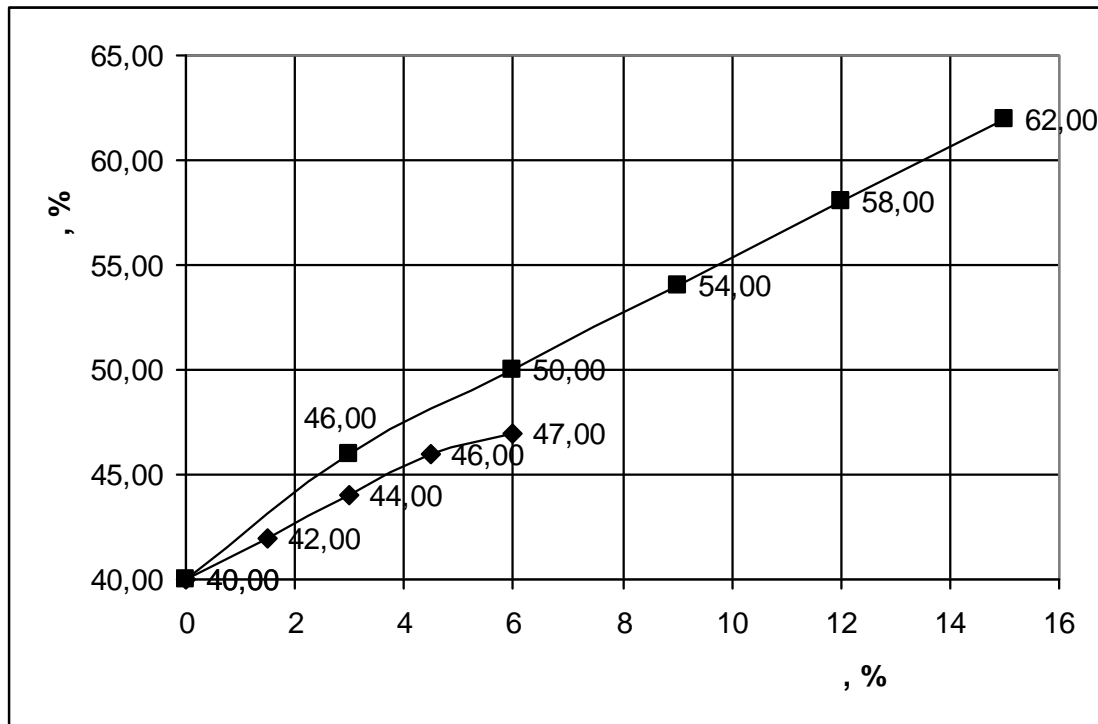
◆ - , ■ -

(. 4)



. 3.

◆ - , ■ -

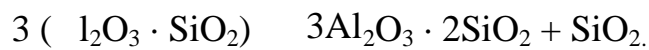


. 4.

◆ - , ■ -

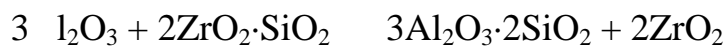
1480 °

:

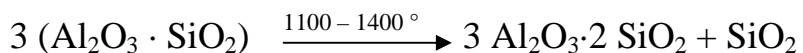
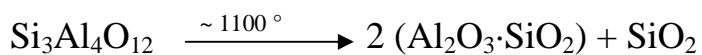
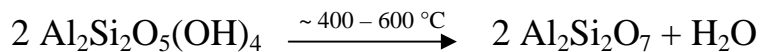


1342 ° [3]

:

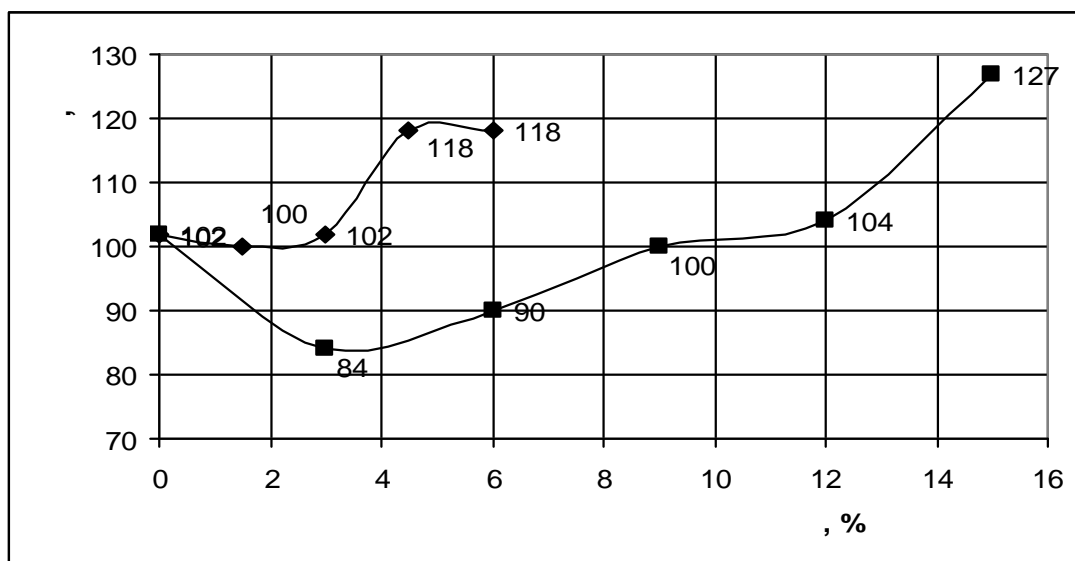


[4]:



0 3 %
4,5 %
0 3 %
102 84 ²,

(.5).



.5.



4,5 %

3 %

: 1.

, 2002. – 656 . 2.

/ . – ., 1974. – 71 . 3.

ZrO₂ – MgO –

Al₂O₃ – SiO₂//

. – 2004. – 7. – . 2 – 5. 4.

/ . . – . : « » , 1985. – 480 .

08.10.07

666.946

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. . . , . . .

CaO – Al₂O₃ – SiO₂ – Fe₂O₃ – MgO

CaO – Al₂O₃ –

SiO₂ – Fe₂O₃ – MgO,

The aim of the paper given is thermodynamic analysis of mineral formation reactions in CaO – Al₂O₃ – SiO₂ - Fe₂O₃ –MgO system that can be used for refractory bonding obtaining.

CaO – Al₂O₃ – SiO₂ – Fe₂O₃ – MgO

[1].

CaO – Al₂O₃ –

SiO₂ – Fe₂O₃ – MgO