

(SiO_2 c, 175-380 °C / (. .)). -

(, , - . .). [5]. -

[5]. [5- 6] -

(-

, ,) [5-6]. -

[5-6].

, .

SiO_2 (.).

-2.0. K_α -

. -

() -

-2 [7] -

ST-1 (« , . »). -

α - , α - . -

Al_2O_3 1,6%; Fe_2O_3 0,6%; 1%; Ni- -

11 / , Cu-7,7 / , Ti 120 / , Mn-51 / , Ba-65 / , Zr-12 / , B-97 / [8]. -

.1. -

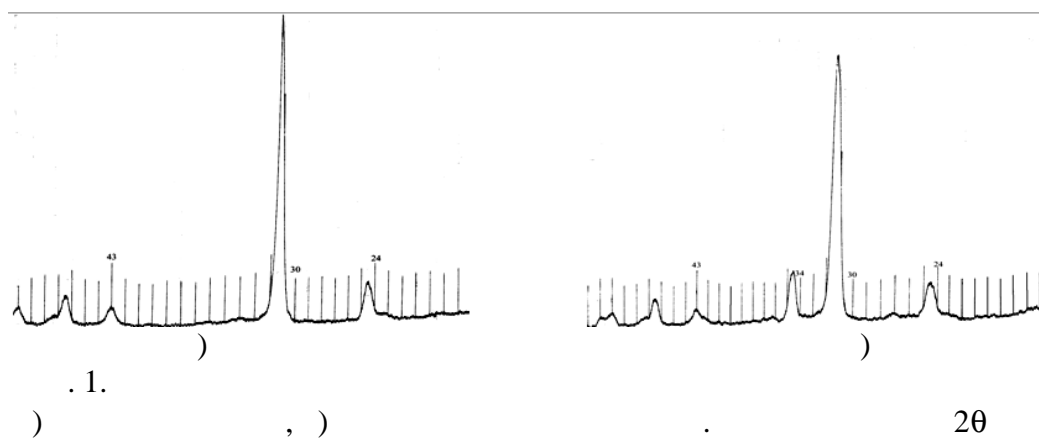
$2\theta=24^\circ 3'$, $32^\circ 3'$, 43° , $46^\circ 3'$ α - ; -

$2\theta=34^\circ 3'$, 50 - [9]. -

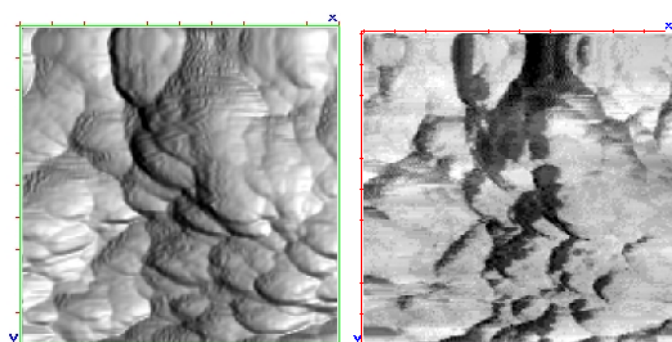
567 619 $^{-1}$, α - -

. -

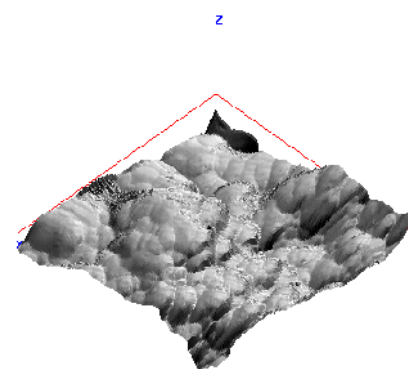
[10] , , , 20 600°



0,5-0,6%, , , -
 , -
 300° . -
 ~Δ =300° . -
 , -
 575° α- , β-
 1610° . [10] -
 1671±20° . , -
 [10] , , -
 , -
 , -
 , -
 [8]. -
 « » -
 0,01 « » -
 0,1 .
 (.2).

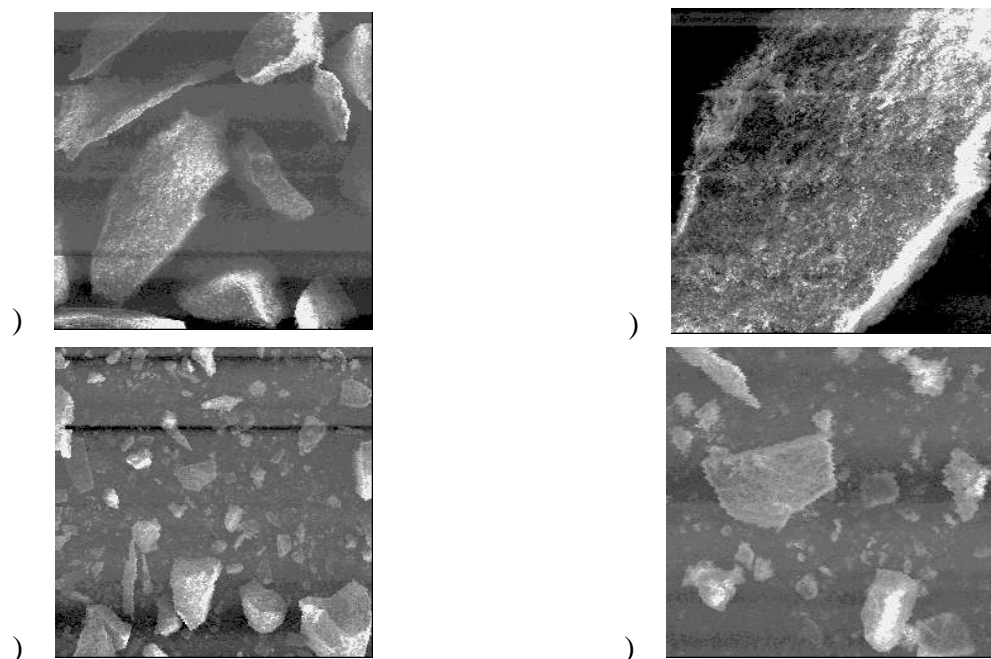


. 2.



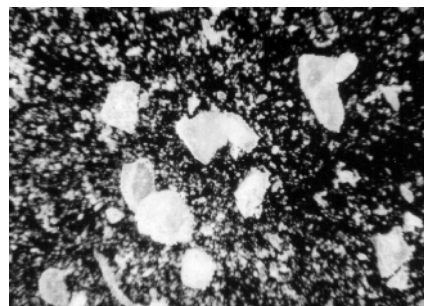
. (25 25)

) , 20 (. 3 ,),
 , 20 (. 3)
 ,
 . 20
 , (. 3).
 (. 4).
 , 575°
 . α- β-
 ,
 [11].
 ,
 50° , ,
 – , [11].
 [11]. ,
 , [11].
 : I ~ 30 , II – 39°C (. 5),
 [11] ~ 32 .
 29-30 ,
 2,5 2,65 .

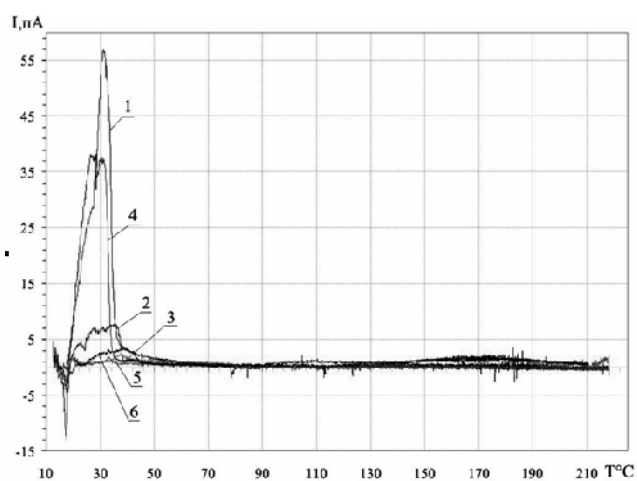


. 3.

) $d < 20$, 100) $d > 20$, 100) $d < 20$, 300) $d > 20$, 300) -



. 4.



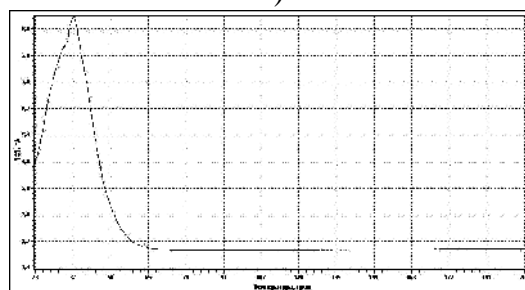
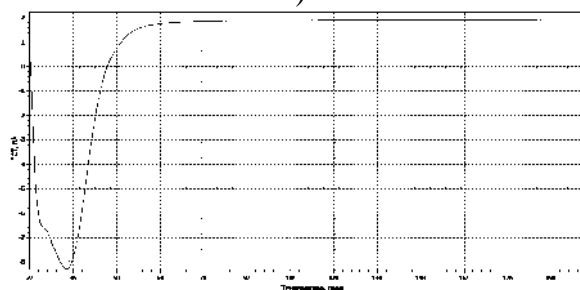
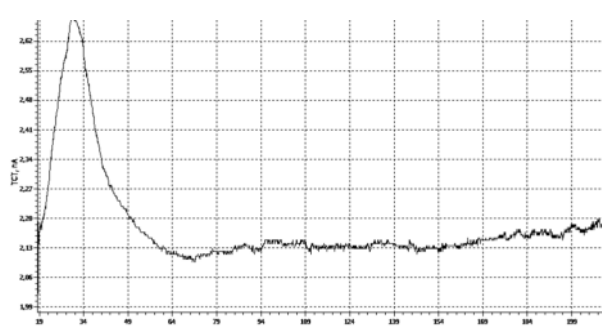
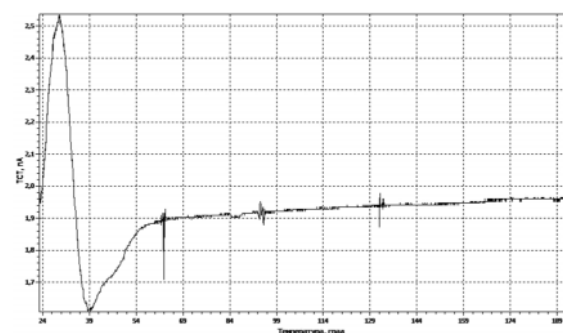
. 5.

(1) 100° (2), 200° (3), 300° (4), 600° (5), 800° (6) [21]

1.

2.

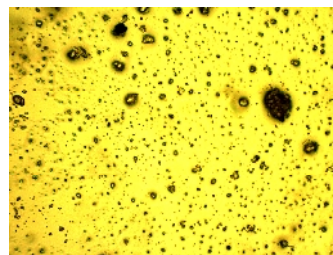
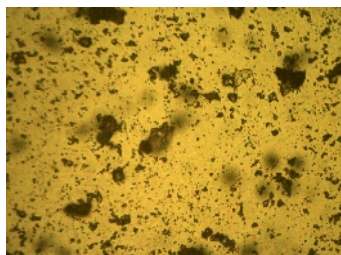
3.



6.

($c=30c$), - SiO_2

($=30c$)



7.

300

1.

:05.02.01 / - :

, 1988. - 323 .

2. . . . : 05.02.01. / . . -
 . - , 1990. – 201 .
3. . . - : . . . :
 05.02.01 / . . . - , 2000. – 269 .
4. . . / . . ,
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 ., 2001. – . 211.
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8. / . . , . . // . I-
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- . - : , 1964. – 860 .
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11. . . / . . // , . 6. – 2011. – 1 (116). –
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20.02.2012.

. . , . . ,
 . . , . .

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- NANODISPERSED ENCAPSULATED WEAR INHIBITORS

- *There were reviewed aspects related to the formation of nanosized encapsulated composites based on the flint. The structure and charge activity the of mechanically activated nanosized silica particles is studied. The formation of the active centers of basic and acidic character, reflected in increasing values of the thermally stimulated current of mechanically activated compositions was established.*
- **Keywords:** flint, charge state, TSC spectroscopy, wear inhibitor, nanodispersed composite materials.