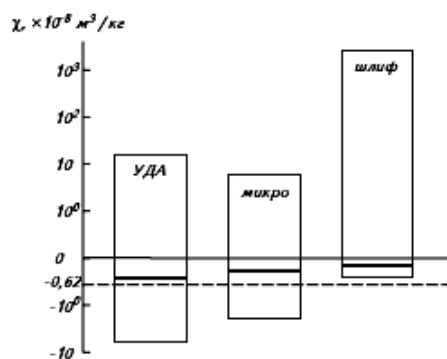


621.762.3

... ; ... ;
 : +38 (067) 446-36-48; -mail: oleynik_nonna@ukr.net

... *Fe* ...
 ...
 ...
 1. ...
 ...
 ...
 ... [1].
 (...) $-0,62 \cdot 10^{-8} \text{ }^3/$).
 (...)
 ...
 ... [2].
 ... 1
 :
 60 , 40 800 , - 0,1
 (3—6)·10⁻⁶
 [3].



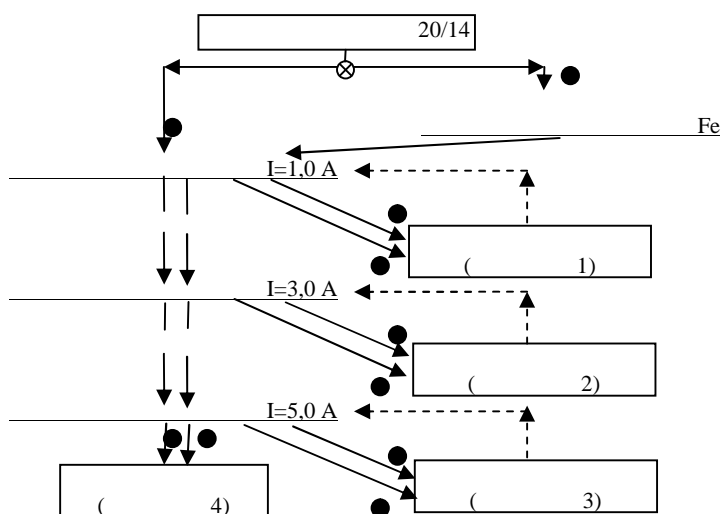
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 , ()
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 [2].
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 [1].
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 [4].
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 [5].
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 (y, %)
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 (, %) .
 ,
 0,5
 [4].
 .
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 2.
 (.1).
 20/14,
 20/14,
 ()
 [1].

1, 3 5,

0,5 %, .



. 2.

()
(, %) , (, $\cdot 10^{-8}$ $^3/$).
(= $\cdot /$, .), (, $\cdot 10^{-8}$ $^3/$).
,

[1]

3.

.3.

.3

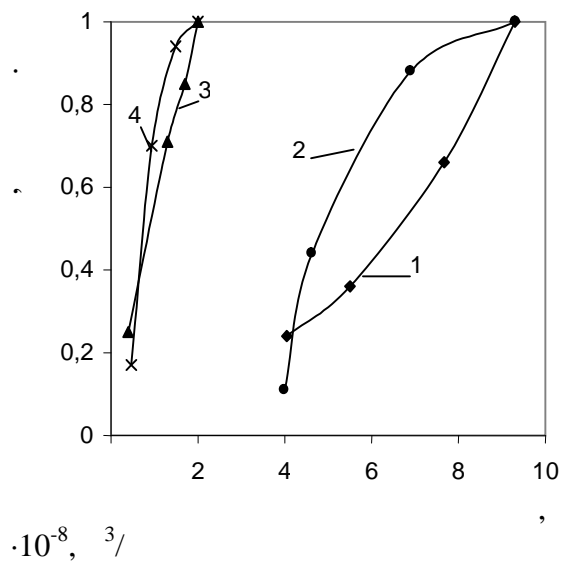
1, 2

3, 4

20/14,

Fe

(. 1).



. 3.

20/14:

(1, 2),

(3, 4). 1, 3 -

, 2, 4 -

1.

20/14,

		R^2		R^2
	$=0,1444 -0,3921$	0,9729	$=0,8899\ln(x)-1,0748$	0,9250
Fe	$=0,1585 -0,3769$	0,8711	$=1,01302\ln(x)-1,2163$	0,9316
	$=0,4652 -0,0745$	0,9958	$=0,4411\ln(x)-0,6397$	0,9815
Fe +	$=0,5266 -0,5740$	0,8557	$=0,5887\ln(x)-0,6620$	0,9660
* R^2 ,				

.1

 $R^2=0,85$, $R^2=0,92$.

()

[4]:

$$(\quad) = 0, \quad (\quad) < (\quad); \quad (\quad) = 0,5; \quad (\quad) = (\quad); \quad (\quad) = 1,0; \quad (\quad) > (\quad)$$

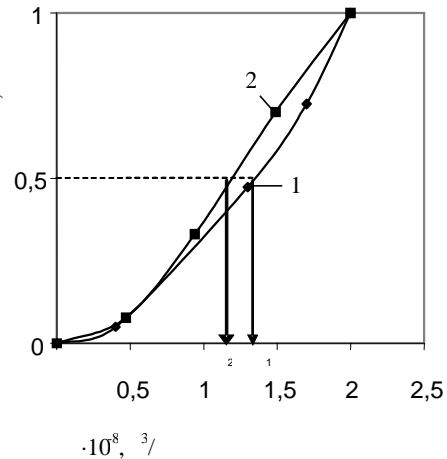
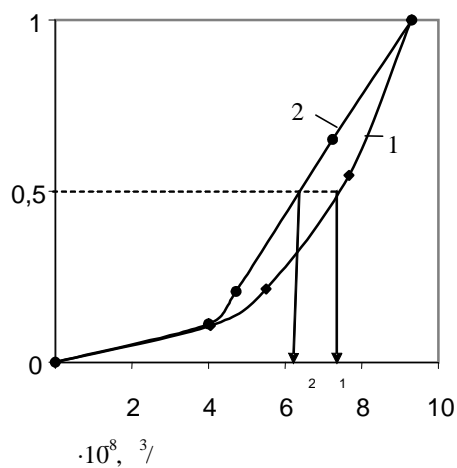
0 1.

(tg),

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20/14,

Fe.



. 4.

20/14,

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(1),

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2),

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2

(() = const)

[4].

()

() = 0,5.

(.4)

20/14,

$R^2=0,94$. () ,
 , , Fe
 , ,
 6,2 % , , 4,8 %.
 (tg) , Fe,
 , 3,4-3,6 . ,
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2.

20/14

		R^2		tg
	=0,1685 -0,6503	0,9470	6,85	0,1689
Fe	=0,1775 -0,6229	0,9902	6,43	0,1775
	=0,5747 -0,2170	0,9754	1,25	0,5747
+ Fe	=0,6325 -0,2573	0,9994	1,19	0,6325
* R^2 ,				

4.

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,
 $R^2=0,85$;
 $R^2=0,92$.
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 2. ,

3.

1. 6 /
 / .2.-
 , 2004. – 320 . ISBN 966-02-2560.
 2. / – .:
 . , 1987. – 190 .
 3. , 2000, 1. – .4-9.
 ISSN 0203-3119.
 4. , 1984. – 208 .
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 (2012.01), 1 31/06 (2006.01), 03 1/00, 82 40/00. . 12.11.2012 . .
 21.

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DIVISION OF MICROPOWDERS OF
SYNTHETIC DIAMOND AT MAGNETIC
FIELD

In the article are submitted results of research of influence of a way of division of micropowders in a magnetic field on their magnetic fractional structure and separation the characteristic. It is shown, that fastening caution Fe on surfaces of particles of a powder allows increasing efficiency of division

Key words: micropowders of synthetic diamond, division in a magnetic field, magnetic fractional structure, the characteristic

27.05.2013 .