

631.841

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• • , • • , " " , (•)

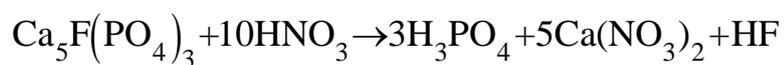
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The research of features of decomposing of phosphoresces in technological processes of reception of complex fertilizing gets the increasing value in connection with transferring an industry to use of low-grade phosphates ores. Let's consider a method of account of kinetics Novo - Amvrosivskogo of a concentrate

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$$-\frac{dM}{dt} = k \times m \times F \times C_R \quad (1)$$

F – ; k – ;
; C_R – , -
; m –

W³ , G₀

G₁ ,

:

$$G_0 - G = W \times (C_1 - C_H) \quad (2)$$

1 -

:

$$s \left(1 - \frac{G}{G_0} \right) = C_1 - C_H; \quad s = \frac{G_0}{W} \quad (3)$$

, (m = C_H; > 0)

$$\left(1 - \frac{G}{G_0} \right) = C_1 - C_H \quad (4)$$

d, -

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$$G_0 = N \frac{\pi d_0^3}{6} \gamma; \quad G = N \frac{\pi d^3}{6} \gamma; \quad F = N \pi d^2 \quad (5)$$

(1) (3).

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$$\left(\frac{1}{s} \right) - () = \frac{a^2 S}{X} - 2 \frac{kt}{d_0} \quad (6)$$

$$a = 3 \sqrt[3]{\frac{C_S - C_H}{S} - 1} \quad (7)$$

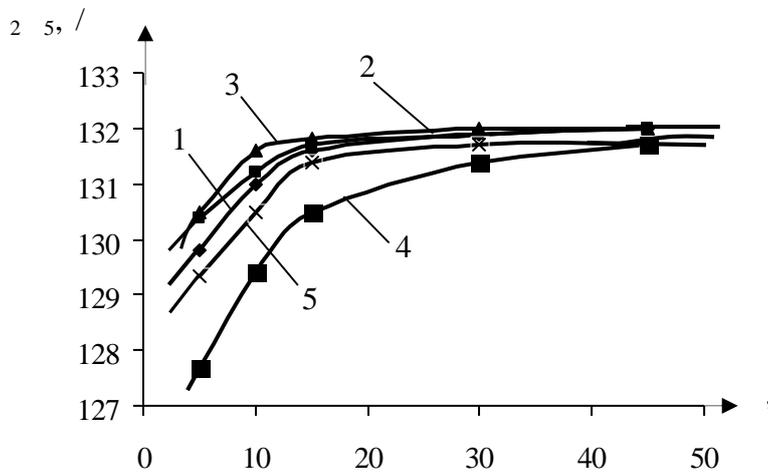
s - , / .

()

$$(\) = \frac{1}{6} \times \ln \frac{(1+x)^2}{1-x+x^2} + \frac{1}{\sqrt{3}} \operatorname{arctg} \frac{2-x}{\sqrt{3}} \quad (8)$$

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56 %-
134,73 .

2 5
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4 - 45° , 5 - 50°

(/):

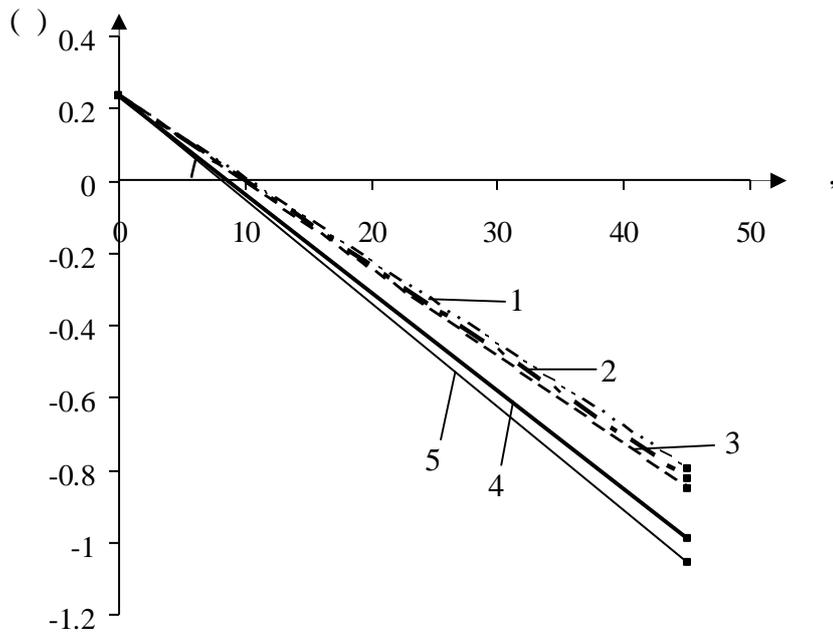
60° ,

1 - 80, 2 - 160, 3 - 250, 4 5 - 80

() t

(. -

6).



. 2. ()
 : 1 – 80 / , = 60° ; 2 – 160 / , = 60° ;
 3 – 280 / , = 60° ; 4 – 80 / , = 45° ; 5 – 80 / , = 50°

k

:

$$k = \frac{3 \times G_0 \times \text{tg}}{F_0 \times \times a^2 \times m} \quad (7)$$

:

$K_1 = 8.09 \cdot 10^{-6}$ / N = 80 / , = 60° ; $K_2 = 8.10 \cdot 10^{-6}$ /
 N = 160 / , = 60° ; $K_3 = 8.11 \cdot 10^{-6}$ / N = 280 / , = 60° ;
 $K_4 = 8.18 \cdot 10^{-6}$ / N = 80 / , = 45° ; $K_5 = 8.21 \cdot 10^{-6}$ /
 N = 80 / , = 50° .

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$$8.15 \cdot 10^{-6} / .$$

: 1.

2.

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19.04.07