: 1. . .
$Na_2O-B_2O_3$ -   . –2006.,   7.,
1. . 125-130. **2.**   . .
$Na_2O-PbO-SiO_2$.   …   …   .   , -   ; 1975, - 158   .
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.   .,   ; 1982, -193 .

621.928

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The technique of studying of technological process of division of agglomerate is resulted on the basis of physical model of a roar with the help of active multifactorial experiment.

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,   (5   )
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[2].   -
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[6].

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.   n≤5,

[7].

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[8].

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$$N = 2^k + 2k + k_0,$$ (1)

k -   ;

2^k –   (   );

2k –   ;

k_0 –   .

[5]:

$$y = b_0 + \sum^n b_i x_i + \sum^n b_{ij} x_j + \sum^n b_{ii} x^2,$$ (2)

y –   (   );

b_0, b_i, b_{ij}, b_{ii} –   ;

x_i x_j –   .

,

,

[9].

(0,95

$= \pm 3$,   –

)   [10].

S_i^2 ,   ,

,   [9]:

$$S_{y_i} = \frac{\sum_{i-1}^N S_i^2}{N} = \frac{\sum_{i=1}^n \sum_{y=j}^n (y_{il} - y_0)^2}{N(n-1)} ,$$ (3)

S_i – y_1 ;

N –   ;

n –   .

G [5].

$$G = \frac{S_{i\max}^2}{\sum_{i=1}^N S_i^2}$$ (4)

G G ,

(   ).

$\overline{y}$.

[5]:

$$b_0 = a_1 \sum_{u=1}^N y_{1n} - a_2 \sum_{i=1}^k \sum_{u=1}^N x_{iu} \overline{y}_{iu} ; \ b_i = a_3 \sum_{u=1}^N x_{iu} \overline{y}_{iu} ; \ b_{ii} = a_4 \sum_{u=1}^N x_{in} x_{ju} y_{iu} ;$$

$$b_{ij} = a_5 \sum_{i=1}^N x_{iu}^2 \overline{y}_{iu} + a_6 \sum_{i=1}^k \sum_{u=1}^N {}^2_{iu} \overline{y}_{iu} - a_7 \sum_{u=1}^N \overline{y}_{iu}$$ (5)

x_{iu}, y_{iu} –   ,   u –

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,

[5]:

$$S_{b_0}^2 = \frac{2A\}_4^{*2}(k+2)S_y^2}{N} ; \ S_{b_i}^2 = \frac{CS_y^2}{N}; \ S_{b_{ii}} = \frac{A((k+1)\}_4^* - (k-1))C^2 S_y^2}{N}; \ S_{b_{ij}} = \frac{C^2 S_y^2}{\}_4^* N} ;$$

$k_c = N - k_0 -$

$k_0 -$ (x_i=0).

$$\}_2 = \sqrt{\frac{\}_4^*(k+2)}{k}}; \quad = \frac{1}{\}_2}; \quad A = \frac{1}{2\}_4^*\big((k+2)\}_4^* - k\big)}; \quad \}_4^* = \frac{k(k_0 + k_c)}{(k+2)k_c}$$

[131]:

$$t = \frac{|b_i|}{S_{b_i}} \tag{6}$$

t t

F -   (   ),
[5]:

$$F = \frac{SS_{LF}}{f_{LF}} : \frac{SS_E}{f_E}, \tag{7}$$

$SS_{LF} = SS_R - SS_E -$,
;

$$SS_R = \sum_{u=1}^{N}\left(\overline{y_u} - \hat{y}\right)^2 - $$,

,

$\overline{y_1}, \hat{y} -$

;

$$SS_R = \sum_{u=1}^{k_0}\left(\overline{y_u} - \hat{y}\right)^2 - $$,

;

$\overline{y_{ou}} -$;
$f_E, f_{LF} -$:

$$f_E = k - 1; \quad f_{LF} = N - \frac{(k+2)(k+1)}{2}$$

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: **1.**   . .   . – .:   , 1968.
– 258 . **2.**   . .,   . .   . //   .. – 2004.   1. – . 10 – 12. **3.**   . .,   . .,   . .

"   ":   . //   .. – 2004.   1. – . 5 – 9. **4.**   . .,
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    . - .:   , 1972. - 200 . **6.**   . .,   . -   .:   ,
1965. - 230 . **7.**   . .   . - .:   , 1967. - 188 . **8.**   /
   . . .   . - .:   , 1969. - 204 . **9.**   .
    . - .   , 1970. - 166 . **10.**   . .   .:   ,
1972. - 542 .

669.1:622

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Questions of reception of ready agglomerate are considered in view of technological process of crushing in a gear crusher with the purpose of improvement of quality of domain raw material, the basic laws of process are shown, the mathematical model and essentially new circuits of crushing is developed.

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