

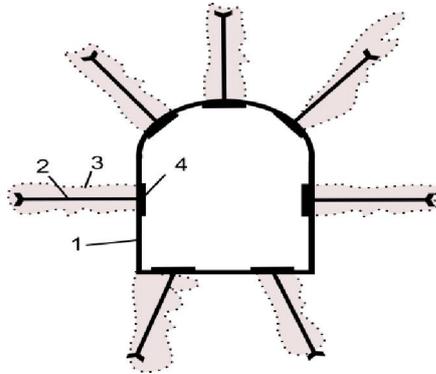
50

[2]

30-

[3],

(.1).



.1.

; 2 -

; 4 -

: 1 -

; 3 -

(λ_T)

),

λ_T

(...

$0,7 < \lambda_T < 0,98$.

$$116 < \lambda_T < 174.$$

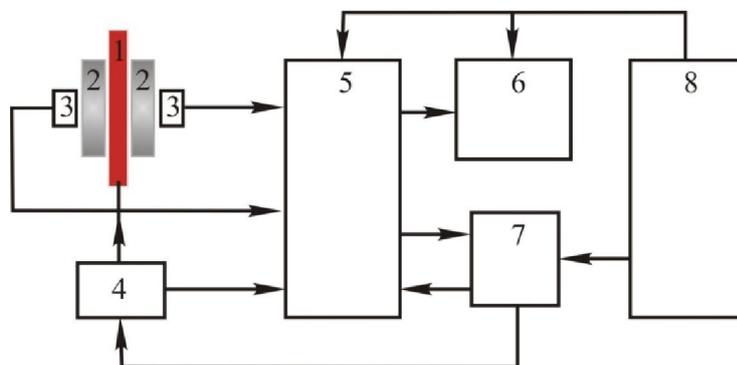
0,05

0%, 5%, 10%, 15%, 20% ().

44 10 15
30 40

25493-82 [4].

Q(. 2).



. 2 - : 1
- ; 2 - ; 3 -
« » ; 4 - ; 5 -

; 6 - ; 7 - ; 8 -

1.
2. «Power».

3.
.
(Q)
().

4. 30 - 60

, ...
«ENDCONV.» ... «
5. « »

(t_i),
(i).

6.
:

$$\lambda = \frac{Q \cdot \Delta l}{S \cdot \Delta t_m \cdot \Delta T}, \quad (1)$$

L - , ;
S - ,²;
t_m - « »
, ;
T - « »
,⁰ .

1 –

,% ' .	λ , / (.)	, %
0	4,87	0
5	5,1	4,72
10	5,7	17,0
15	6,69	37,4
20	7,69	57,9

. 2.

2 –

,% ' .	W_c ,% .	λ , / (.)	, %	, %
0	3,8	6,18	0	26,89
5	1,35	6,7	8,4	37,57
10	1,0	7,25	17,3	48,87
15	0,68	7,66	23,9	57,28
20	2,11	8,41	36,08	72,68

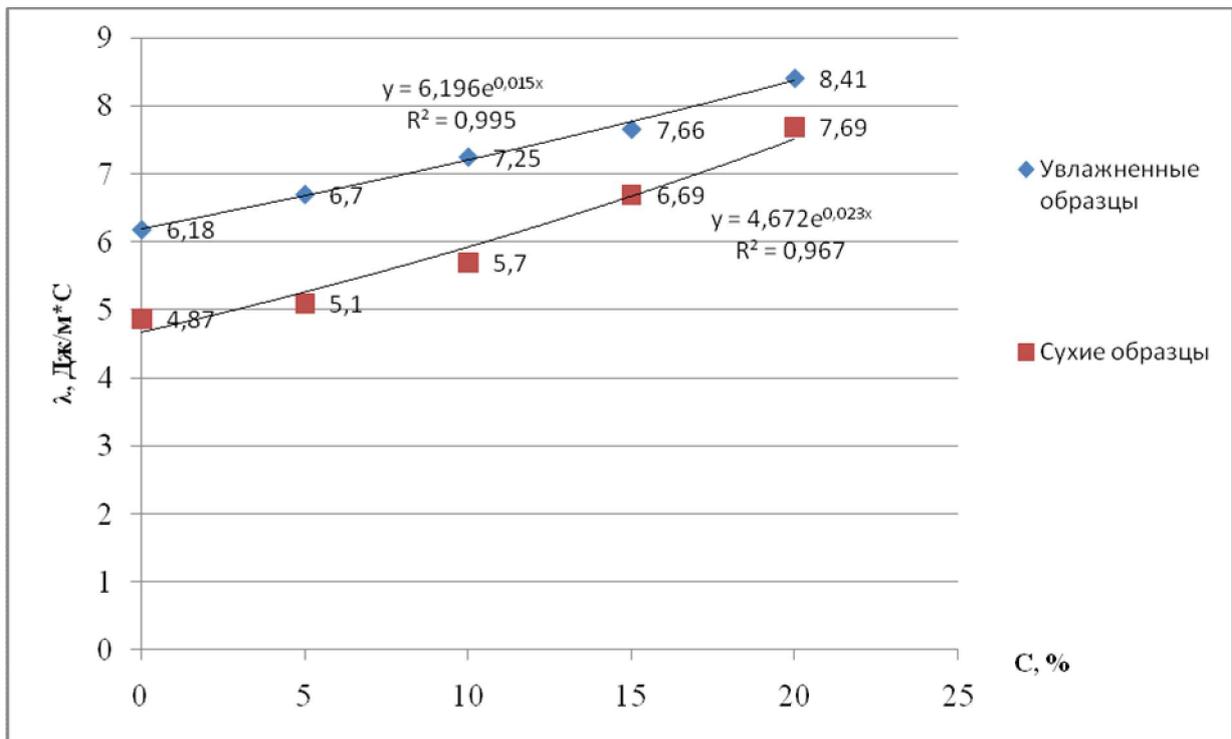
.3

$$\lambda = 4,6723 \cdot e^{0,0237x} \quad (2)$$

$$/r/ = 0,9674.$$

$$\lambda = 6,1963 \cdot e^{0,015x} \quad (3)$$

$$/r/ = 0,9953.$$



. 3 -

72,68 %.

0,91 < < 0,512,

57,9 %.

1. , 1976.- 215 .
2. 82121 F24 J3/08, F03
G41/00.« »
. - u200603145; .
- 03.04.2006; . 11. 03. 2008, . 5.
3. 70012 , 21D 13/00.
/
. - u201112926;
- . 03.11.2011; . 25.05.2012, . 10.
4. 25493-82 .

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' , Zavyalova H., Shipika A.,
. Skrinetskaya I.

IMPROVING THE EFFICIENCY OF HEAT-ANCHORS

The dependence of the coefficient of thermal conductivity of clay-graphite mixture on its composition to confirm the applicability of this mixture as a heat conducting structure. Increase heat rock mass using clay-graphite mixture will improve the efficiency of heat-anchors.

Keywords: geothermal energy, coal geothermal heat exchanger, conductive glue, thermal conductivity, clay-Graphite mixture.

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