

. « . . . ». 1991. 6. . 66-68. 5.

 . « . . . ». 1975. 4. . 19-21. 6.
 . « . . . ». 1973. 3. . 17-20.

21.09.07

621.785.95:666.3

.
 ,
 ,
 -
 ,
 ,
 -

The process of volume ionization in the quartzite, that arose at plasma-vibrostriking action upon minerals, was considered. It was shown, that the plasma-vibrostriking loading of materials resulted in the appearance of local regions with an anomalous Shottci effect.

40%
 ,
 20
 - ()
 [1].
 ,
 « . . . »
 [2].

 ,

« »

[3, 4],

-

,

,

. «

-

», .

, «

», .

, .

, «

-

»

.

,

,

90-

.

,

,

.

,

-

-

-

,

,

.

,

«

»

-

.

,

(

-

,

,

),

,

,

,

,

,

,

.

,

-

,

(

)

-

.

[5,6].

. . [7,8]

,

«

-

»

-

,

,

-

-

-

-

[9].

— ; —

[10,11].

[12]

4- 350 – 400 «-7» 387 – 447
«+45» «0»

[12]

105

1,

[15]

[16].

[17],

$$F = \frac{n! U_0^n k^n T^n \ln N!}{n! (N - n)!}$$

$$n \ll N, \quad N - n \approx N; \quad n \approx N \exp(-U_0/kT)$$

5%, - 7%,

105 250 – 300
1603875.

10 – 15 %.

, , -
 ,
 . ,
 - , -
 -
 . -
 , -
 : **1.** . . //
 . - 2003. - 4. - . 1 - 3. **2.** . . -
 : , 2005. - 8.
 - . 268 - 272. **3.** . . //
 . - 2003. - 7. - . 72 - 76. **4.** . . -
 « » // -
 - 2003. - 7. - . 16 - 21. **5.** . . -
 // . -
 - 2006. - 2. - . 72 - 75. **6.** . . , . . -
 // -
 , 2006. - . 49- 63. **7.** . . -
 // , 92/48. - . : , 1999. - . 20 - 28.
8. . . .
 , 93/503. - . : , 2001. - . 7 - 19. **9.** . . -
 75 - . . / -
 . : , 2006. - 26 - 45. **10.** . . , . . -
 // -
 - 95. - , 1995. - . 221 - 224. **11. Osenniy V.** Research of Plasma increasing of the
 Bore Holes in the Strong Rock Masses of Krivbass Mines/ Proc. Of the 5 th European Conference on
 Thermal Plasma Process, St. Peterburg, 1988.- P.174. **12.** . . , . . -
 / -
 . - : , 2006.- . 2/ 2006 (37). 2 - .
 93-94. **13.** . . . // . -
 2006. - 42. - 8. - .126-134. **14. Shevchenko Yu.N., Piskun V.V.** Axisymmetric Thermoelastoplastic Stress
 State of Isotropic Solids of Revolution under Impulsive Loading// Int. Appl. Mech.- 2003 -**39, N 5.** -
 P.546-555. **15.** . . . / , 1988. - .72.-
 .161-169. **16. Scymrikov V., Osenniy V.** Kinetic parameters of thermal processes taking place in rocks un-
 der the action of plasma/ In Progress in Plasma Processing of Materials 2001. P. Faushais, J. Amouroux,

21.09.07

620.168: 624.016

• • , ,
 , - ,
 ,
 , - ().
 ,
 ,

The technology of reception composite of a material with use is offered as the basic component binding –crushed silica-lump. The technology allows to receive materials with the raised(increased) operational properties under the simplified technological circuit, provides mechanization of production, decrease of expenditures of labour and increase of quality of production.

1. • -
 , . -
 : ,
 - , ,
 , , -
 , -
 , -
 [1, 2, 3].

2. • -
 - - , -
 ,
 [3, 4].
 , -
 , : -