

// . – 1997. – 5. – . 7. 7. . . , . . . -
// . – 1998. – 1. – . 23 – 25.

12.05.08

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. . . , . . . , . . . , . . . ,
. . . , . . . , « ».

In the article the high extent of a continuity and density of oxide film on the surface of secondary bronze raw materials and probability of its cracking because of essential difference TKLE of its and bronzes is determined by calculation method. The glassflux with low density for the bronze melting protection from oxidation was developed and the opportunity of its use for the oxide film removal is revealed.

[2].

5 5 5,

[3, 4],

(),

[5].

$V / V_{Me} < 1,$

$V / V_{Me} > 1,$

$V -$

$; V_{Me} -$

[5].

$$\begin{aligned} & V / V_{Me} \gg 1, \\ & 1 < V / V_{Me} < 2,5 \\ & > 2,5 \end{aligned}$$

[5].

5 5 5.

Cu₂O – 47; ZnO – 27; CuO – 24; PbO – 1,5; SnO₂ – 0,5 [5, 6].

V / V_{Me} [4, 5]

(Cu₂O – 1,67; ZnO – 1,58; CuO – 1,74; PbO – 1,15; SnO₂ – 1,33),

V / V_{Me}

5 5 5, 1,65.

1 – 2,5,

5 5 5.

$72,16 \cdot 10^{-7} 1/^\circ$.

($177 \cdot 10^{-7} 1/^\circ$),

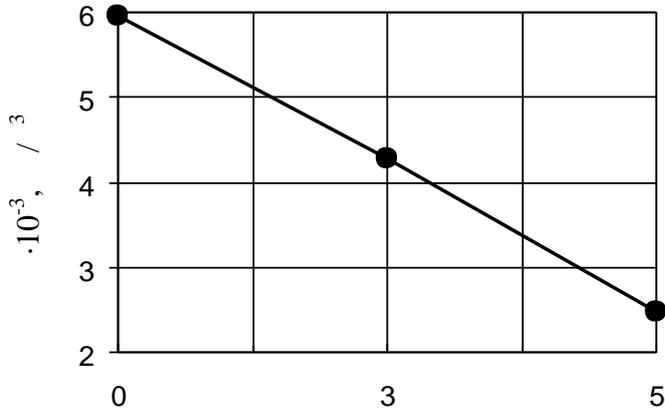
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3 5

, %: 48,3, 80,2 100 [7].

($5950 / ^3$) $4270 \quad 2480 / ^3$.
($8800 / ^3$),

2 – 3



5 5 5

1. ... 1997. – 377 **2.** ... 22889 ... C 22 C 1/02, C 23 D 5/00.
... 29.12.2006; ... 25.04.2007; ... 5.
3. ... 1991. – 169 **4.** ... 2007. – 187 **5.** ... « ... », 2005. – 240 **6.** ...
... 8- ... -8. – : « ... », 2007.
... 2. – . 51 – 54. **7.** ...
... , 2007. – .77.