

621.357.7

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The regularities of copper deposition from a chloride – sulfamate electrolyte in galvanostatic regime are defined. The influence of different factors on kinetic parameters of coppering are investigated. The main components concentration of electrolyte and electrodepositio regime is established.

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[1, 2].

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[2, 3].

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50-1.1,

-8,

-1.

-2.

08 18 10 .
99,9.

[4],

25 %-

0,25 .

Cu²⁺

CuCl:



Cu²⁺ :



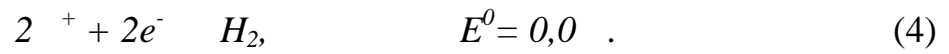
$$(-0,03 \div -0,08 \text{ V})$$

$$b = 0,057 \text{ V} \quad -$$

b

2.

(1) (2).



($\frac{V}{s^3}$),	$t, ^\circ C$	-	-	-	-
			$j, \frac{A}{cm^2}$		
10	20	-	0,25	3,5	- 0,20
7	20	-	0,25	2,4	- 0,17
5	20	-	0,25	1,1	- 0,13
5	30	-	0,23	1,2	- 0,08
5	40	-	0,21	0,3	- 0,05
5	20		0,20	2,0	- 0,15
5	20		0,15	4,5	- 0,25

j

5 / 3.
 2-3 , -
 20 / .

(u²⁺)

0,7-0,8 / 2 18-20⁰ -
 7-8 / . 72-82%,

(2-7 / 3)

(1 / 3)

9-18 .

: 1. -
 . - : , 1978. - 267 . **2.** - :
 , 1974. - 560 . **3.** : -
 ∴ , 1987. - 736 . **4.** -
 - 2006. - 42, 5. - .17-20. // - .

17.04.07

661.566: 66.097.3:669.054.8

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The possibility of the utilization of platinum containing wastes of nitric acid production is studied. Quantitative content of the wastes containing platinum group metals from the surface of boiler-utilizator and absorption column is shown. In this article content of wastes with platinum group metals and choose sedimentator for metal platinum obtaining are made.

[1]
() [2],
[3, 4].
32 , , 2,4
640 .
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