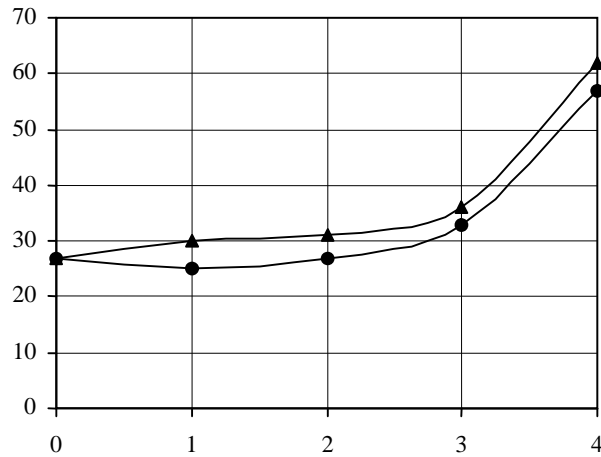


2-3%.



() 3 %-
 1- ; 2- ; 3- ; 4-

: I.
 . - 2000. - 1. - .66-68. 2.
 // :
 .31-32. .31699 , 23 L 1/24. . - 1999. - 2. -
 /3.
 . () .- 98105571; . 23.10.98; . 15.12.2000,
 7.-II-2 .
 27.04.06

621.357.12

.

 « »

30%
 2%
 (2%)-
 95-98%
 (3%)”
 20% ”
 72
 72
 ”
 ”

The kinetics of excretion of oxygen from sulphate solutions on the oxidic lead titanium anode depends on the big number of parameters and has difficult character. Influence of potential of a zero charge of the anode on the mechanism and kinetics of excretion of oxygen is shown. Influence of concentration of additives halogenide of ions on braking of excretion of oxygen is studied. Directions and methods of management are proved by kinetics of excretion of oxygen.

[1 - 7].

[2, 5 - 8].
()

$$p_{O_2} = 1,228 - \frac{2,3RT}{2F} pH - \frac{2,3RT}{2F} \lg a_{H_2O} + \frac{2,3RT}{4F} \lg p_{O_2}$$

(. 1).

[1 - 3],

$$o_2 = 1,107 + 0,120 \lg i.$$

5,0...11,67

PbO₂,

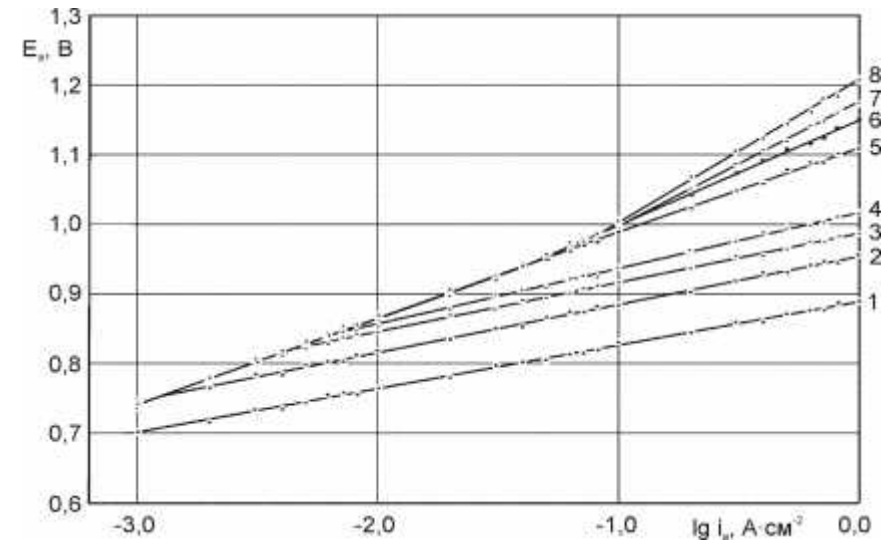
₂SO₄ - 0,05...2,5

PbO₂

59

₂SO₄.

[5, 8].



. 1.

. 333

(. -³):

1-0,05; 2-0,57; 3-1,0; 4-2,5; 5-5,0; 6-7,5; 7-8,68; 8-10,0; 9-11,68

₂SO₄ 5,0...11,67

PbO₂.

(PbO₂

1,85...2,10 ,

1,8...2,0 [5]),

SO_4

, TiO_2

, $\text{Cl}^- \text{ F}^-$

. % : $\text{PbO}_2 - 50, \text{TiO}_2 - 50$

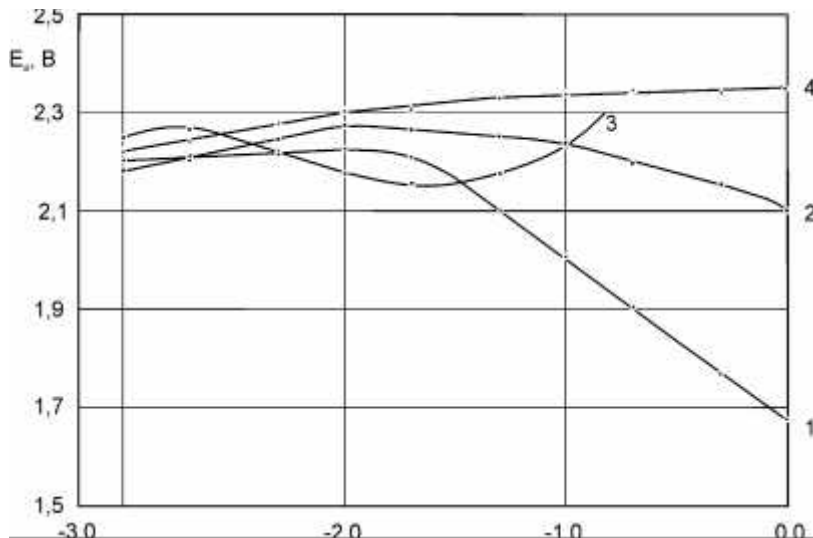
: $\text{Cl}^-, \text{Br}^-, \text{I}^-, \text{F}^-$ 333 (.2).

(F^-)

(0,01 .⁻³)

1 .⁻³ SO_4

40...50



61

F^-

H_2SO_4

2,5 .⁻³,

PbO_2

H_2SO_4

8,68 .⁻³

PbO_2

: 1.

. 1. . 130-145. 2.

. 1953. . 27.

. 1956. . 30. . 8. . 1807-1815. 3.

//

1141-1149. 4

. 1957. . 31. . 5.

. - 1991. - 34. - . 84-153. 5.

6. . , 1980, 233 . 7.

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. - 1986. - 12. - . 3-60. 8.

// IV

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25.04.06