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 : 1. . . .
 // . « ».- 1953. - 4.
 - . 127 - 137. 2. . . . , -
 . - ∴ , ,
 - 1961. - 230 . 3. . . . , -
 . ∴ , - 1966. - 212 . 4.
 . - ∴
 , 1944. - . 15. 5. . . . , . . . -
 ,
 . - , - 1952. - . 84. - 5, - 1021 - 1024 .
 6. . . . - - - ∴
 , 1978. - 255 . 7. . . . 1. / . . . - ∴ -
 « »,- 1971. - 1071 . 8. - ∴ , - 1975. - 543 .

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 . . , « »

The comparative analysis of existent electrolytes of nickelage and silvering which composition of solution and modes of electrolysis for the receipt of coverages with the set functional properties (catalytic activity to process of oxidation carbon oxide) is offered on the basis of is resulted in the article. Analysis of composition of existent electrolytes from which besieging of nickel with the small quantity of silver testifies possibly, that the best solutions be sulfamate, which are widely used for forming of coverages of nickel of a various thickness.

1 – 5 %

[1].

[2].

Ni – Ag

(20 %)

50

(100)

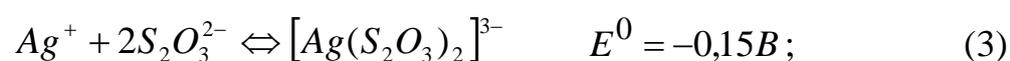
(1 – 5 %)

[3],

$$E^0_{Ni^{2+}/Ni} = -0,25B,$$

$$E^0_{Ag^+/Ag} = +0,799B.$$

[4, 5]:



(1 – 7),

(NH₂SO₂OH),

() ,

0,12 – 0,3 / ³,Ag⁺
0,2 – 0,7 / ³.NH₂SO₂OH.0,01 – 0,25 / ³,0,3 / ³.

$$= 2,5 \cdot 10^{-14}$$

$$E^0_{Ag^+ / [Ag(S_2O_3)_2]^{3-}} = 0,017B$$

0,773 ,

		Ag ⁺ , / ³		
		0,5 / ³ NH ₂ SO ₂ OH	1 / ³ NH ₂ SO ₂ OH	0,64 / ³ Ni(NH ₂ SO ₃) ₂
Ag(NH ₂ SO ₃)	–	~ 0,12	~ 0,2	0,7
AgCl	2,04 · 10 ⁻³	. .	. .	. .
AgCl + (NH ₄) ₂ SO ₄	9,31 · 10 ⁻⁸	. .	. .	. .
AgCl + K ₄ P ₂ O ₇	10 ⁻⁴	. .	. .	. .
AgCl + KJ	1,4 · 10 ⁻¹⁴		–	
Ag ⁺ Na ₂ S ₂ O ₃	4,5 · 10 ⁻⁸	. .	. .
AgCl + Na ₂ S ₂ O ₃	2,5 · 10 ⁻¹⁴	~ 1 · 10 ⁻²	2,5 · 10 ⁻²	0,3
Ag	–	0,2	0,3	0,2

Ni – Ag

: 1. , 1987. – 735 . 2. – 830 . 4. , 1981. – 488 . 5. : 7 ./ – . – : , 1964. – . 4. – 1005 .