

544.6+546.73+546.77

$9,4 \cdot 10^3 - 1,7 \cdot 10^4$

In this work the composition and current efficiency of electrolytic alloys Co-Mo and Co-Mo-P obtained from a citrate and a polyligand citrate-pyrophosphate electrolyte have been investigated. It has been shown that the use of pyrophosphate as an additional ligand leads to a considerable increase in the deposition rate of alloys and to a decrease in the molybdenum content of them in comparison with known citrate electrolyte. Corrosion tests of the deposits obtained have been carried out, and it has been shown that coatings have a considerable corrosion resistance, $9,4 \cdot 10^3 - 1,7 \cdot 10^4 \Omega$.

-

[1].

(10 %),

(25 %)

[2].

[3].

[1, 3-6].

(9 - 9,5) (3 - 4) [1, 4, 6].

[7]

-35.

. 1.

1

	-1					
	CoSO ₄	Na ₂ MoO ₄	Na ₃ Cit	K ₄ P ₂ O ₇	NaH ₂ PO ₂	Na ₂ SO ₄
1	0,1	0,02	0,2	0,2	--	0,5
2				0,2	0,1	
3				--	--	
4				--	0,1	

0,5²,

- 8,5.

7,

300⁻¹.

3⁻²

50 °

TESCAN VEGA

INCA Energy EDX.

Na₂SO₄ 7⁻¹ NaCl 6.0

24 ± 1 °

7⁻¹

15

5

50 - 1

1,0 · 10⁻¹.

(IR).

(± 100 %),

-3 50 .

. 1

. 2.

5 – 7 .%,

3 .%,

11 .% [8].

[9],

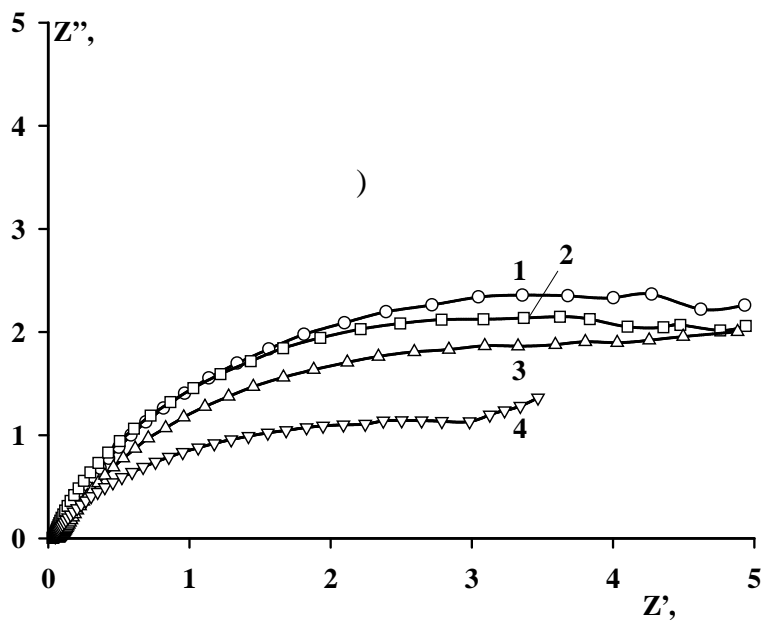
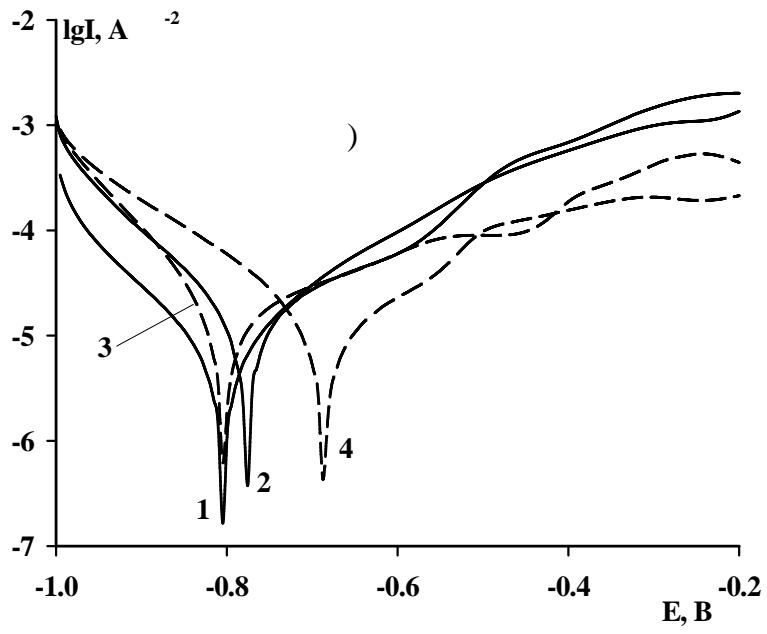
2

	, %	, .%	, .%	R,	R _p ,		j , · 10 ⁻²
1	58,2	17,39	--	6,9·10 ³	1,8·10 ⁴	-0,804	8,3·10 ⁻⁶
2	40,6	13,41	1,12	5,9·10 ³	9,4·10 ³	-0,776	2,3·10 ⁻⁵
3	6,5	23,95	--	6,1·10 ³	8,1·10 ³	-0,804	2,8·10 ⁻⁵
4	5,3	24,10	1,81	3,8·10 ³	1,2·10 ⁴	-0,686	2,4·10 ⁻⁵

EDX,

1 309 · 10⁻².

()



. 1.

()

(),

1 - 4

[3],

Collaborative

Call with Moldova 2005 INTAS Ref. Nr 15 – 104 – 7540.

- 1.** //
- .: , 1978. – 14. – C. 223 – 226. **2.** *Siu C. L., Man H. C., Yeung C.H.* Electrodeposition of Co-Mo-P barrier coatings for Cu/Au coated systems // *Surface & Coatings Technology*. - Dordrecht: Elsevier, 2005. – 200. – P. 2223 – 2227. **3.** , 1962, – . 312 **4.** //
- .: " , 1977. – 13. – C. 621 – 623. **5.** / – .: , 1985. – 103 . **6.** *Siu C.L., Man H.C., Yeung C.H.* Interdiffusion coefficients of various cobalt base alloy coatings for Cu/Au system // *Applied Surface Science*. – Dordrecht: Elsevier, 2005. – V. 245, 1 – 4. – P. 79 – 86. **7.** //
- .: " , 2007. – . 74, 3. – C. 44 – 48. **8.** *Krastaji N., Popov K., Spasojevi M., Atanasoski R.* The electrodeposition of cobalt-molybdenum alloys // *Journal of Applied Electrochemistry*. – Amsterdam: Kluwer Academic Publishers, 1982. – 12. – P. 435 – 438. **9.** *Gómez E., Pellicer E., Vallès E.* Intermediate molybdenum oxides involved in binary and ternary induced