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Dependence of structure, specific electric resistance, catalytic activity and durability from composition and conditions of reception composition oxide coverings in an electrochemical synthesis of an organic substance has been investigated. Physical and chemical parameters of the gained coverings are certain, to prove composition of a covering depending on conditions of its maintenance.

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 ,
 ,
 [1 – 4].
 . PbO₂
 PbO₂ – 0,5...12,7.
 . PbO₂,
 Fe₃O₄, PbO₂ RuO₂, MnO₂, Co₃O₄,
 (RuO₄)
 PbO₂
 . PbO₂
 PbO₂.
 PbO₂
 TiO₂
 TiO₂
 2O.

TiO_2 , $\text{TiO}_2 \cdot 2 \text{H}_2\text{O}$.
 (RuO₂, PbO₂, SnO₂, MnO₂, Co₃O₄, TiO₂)
 (RuO₂/TiO₂).
 RuO₂ / TiO₂
 [5], 50/25 3000
 [6].
 $\text{Na}_3\text{PO}_4 - 30, \text{Na}_2 \text{O}_3 - 30.$ 5 · 10⁻², 303 (· 10⁻³):
 Pb(NO₃)₂ TiCl₄.
 313...323
 593...673
 $101,3...121,6 \cdot 10^4$
 [7].

PbO₂/TiO₂ ()

s-Pb₂ TiO₂.
(TiCl₄) TiO₂

PbO₂ / TiO₂ = 50 / 50 % (Å): = 4,952, = 3,373.

PbO₂ / TiO₂

10...50 %

TiO₂

PbO₂ / TiO₂ – PbO₂ / TiO₂ (RuO₂ / TiO₂) Ti-

	PbO ₂ , %	
1	100	$(3,28 \pm 0,17) \cdot 10^{-4}$
2	75	$(3,64 \pm 0,17) \cdot 10^{-4}$
3	50	$(4,06 \pm 0,18) \cdot 10^{-4}$
4	35	$(9,22 \pm 0,24) \cdot 10^{-4}$
5	25	$(29,82 \pm 3,8) \cdot 10^{-4}$
6	10	$(678 \pm 4,7) \cdot 10^{-4}$

25 %

TiO₂,

. PbO₂

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 . , -
 , -
 : Pb₂ 10 75
 % . -
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621.357: 620.193

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N Cl. , 3 %-
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