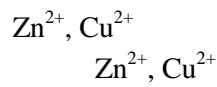
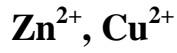
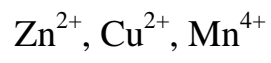


• • , • • , • • , • • ,  
 • • , • • , • • , • • ,  
 • • , • • , • • , • • , . II ,  
 <<  
 >>

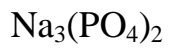
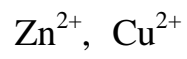


In papers are observed perspective of use of phosphate  $Zn^{2+}, Cu^{2+}$  as bactericidal fillers enamels coating. The synthesis of diphosphates  $Zn^{2+}$  is presented,  $Cu^{2+}$  and is investigated their composition with use differential-thermal and X-ray analysis. Agency of heat treatment on character of phase transformations of phosphate is studied at formation antibacterial glass coating.

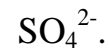
• , - - - - -  
 , - - - - -  
 "BOSH", "Eiserwerke Duker GmbH" ( ), "Dupont" ( ) .  
 , - -  
 [1].



[2].



1,5



« . . . ».

[3].

[4]

320 ° –

200 °  
100

60

920 °

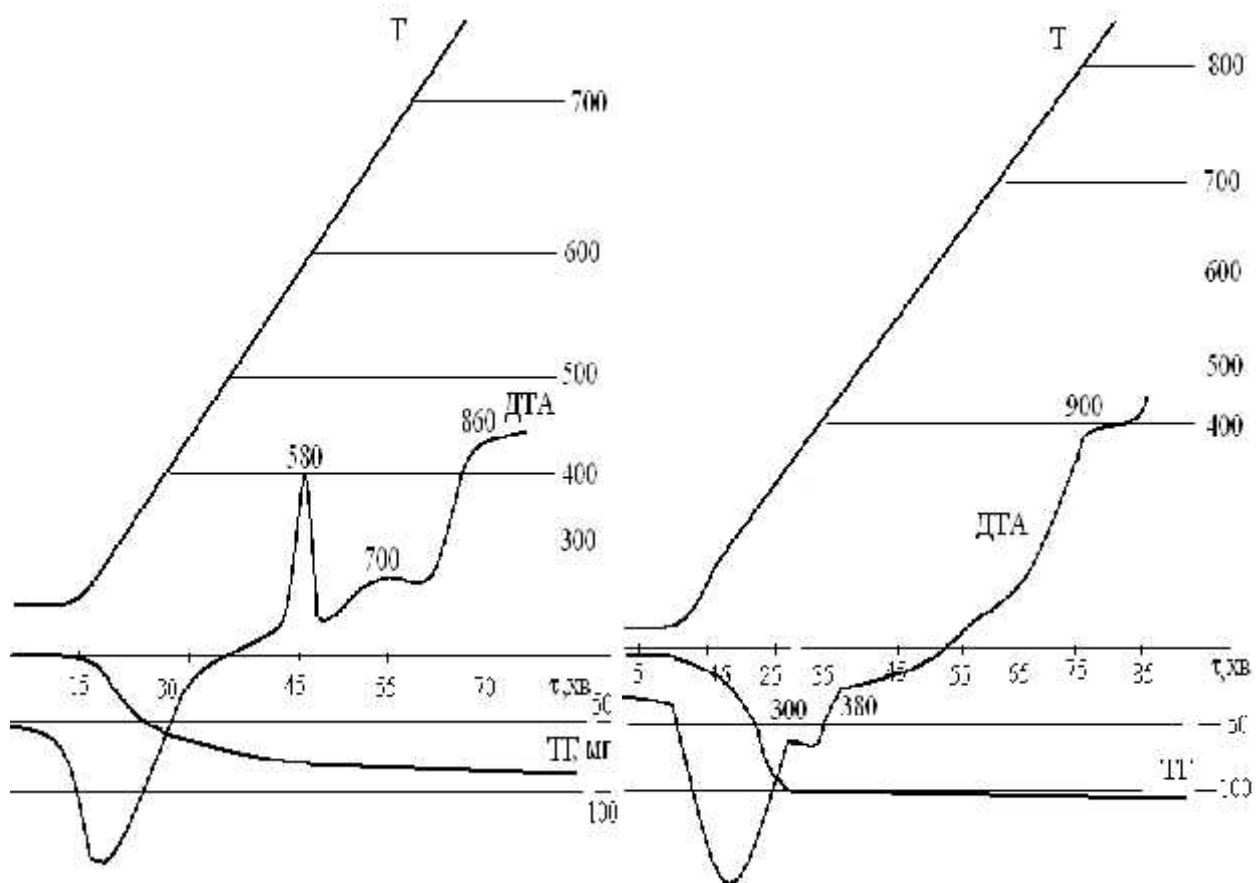
( .1. ).

320 ° ° 75 .

80

580 ° ,

860 ° ( .1. ).



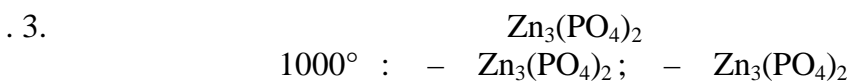
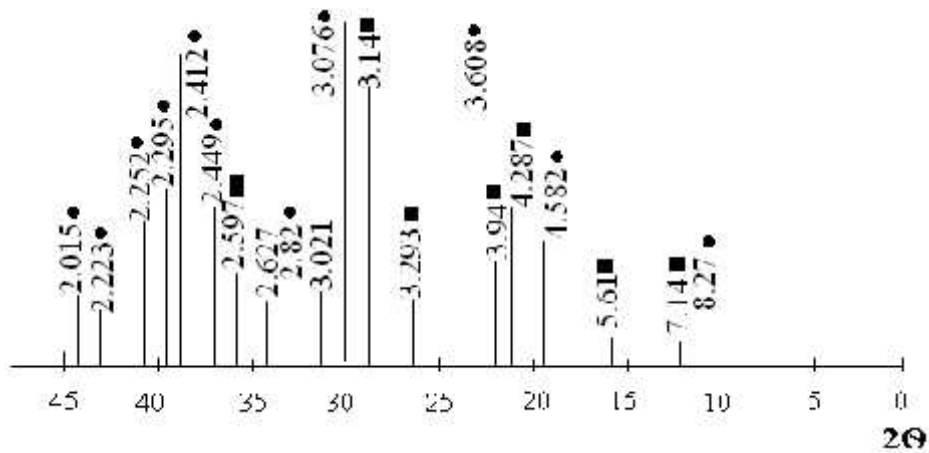
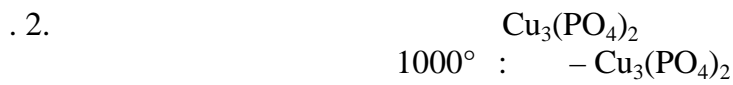
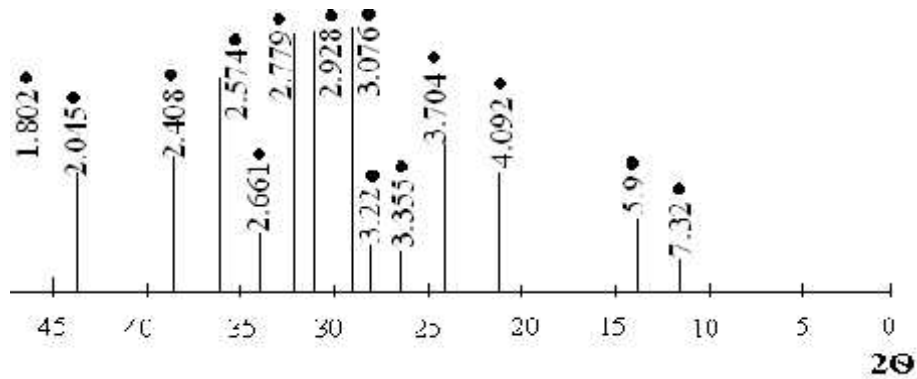
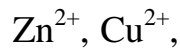
. 1.

: -  $\text{Cu}_3(\text{PO}_4)_2 \cdot x\text{H}_2\text{O}$ ; -  $\text{Zn}_3(\text{PO}_4)_2 \cdot 4\text{H}_2\text{O}$ .

$\text{Zn}^{2+}$   $\text{Cu}^{2+}$ .

( .2, 3).

$\text{Zn}^{2+}$ ,  $\text{Cu}^{2+}$ .



: **1.** Eckhard Vo , Christian Störch. Evaluation of bacterial growth on various materials /The 20<sup>th</sup> International Enameller Congress, Istanbul-Turkey, 15-19 May, 2005. - S.194-210. **2.** Aydin Do an, Aslan Genser, Ceren Pek en. Calcium phoshate based antibacterial ceramic powder containing enamel / The 20<sup>th</sup> International Enameller Congress, Istanbul-Turkey , 15-19 May, 2005. – S.239-244. **3.** C.S. Chal, K.A.Gross, L. Hanley, K.Kannangara. Critical ageing and chemistry of nanocrystalline hydroxyapatite sol-gel solution // J.Aust.Ceram. Soc. – 1998. - Vol.34, Nr.2 – P. 263-268. **4.** . . . - . . . // . – 2001. – .37, 6. – .735-738.

3.09.08.