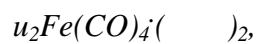


546: 54-386; 621.762

• • • • • , • • • • • , • • • • •

E-mail: [ariff-1947@mail.ru](mailto:ariff-1947@mail.ru)

(I)



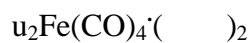
20–30

[1],

[2],

[3] . .

[3].

N<sub>2</sub> 2.

« rkin-Elmer-580»,  
«Radiopan».

SE/X-2547

g[ o,(SCN)<sub>4</sub>].

DRON-2

1. (I)



0.5 2

2.54 1.74 (0.1 ) , 50 5%- 25–30 .

(0.4 ) 0.25 120<sup>0</sup> ,

1 46–56 . 3–5- = 5–10 .

250

(3×5 ).

1.4 ( 88%)

$\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2 > 120^0$  . - - v ( ): 1970, 2048 <sup>-1</sup>

[4].

2. (I)

$\text{u}_2\text{Fe}(\text{CO})_4$ .

25 6 6 0.4 (0.01 )  $\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2$

50–80<sup>0</sup>

3. (II) (III).

2.

$\text{N}_2$  2. 5-  $\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2$ ,

0.4  $\text{u}_2\text{Fe}_2(\text{CO})_9 > 140^0$  . -

64%  $\nu_{\text{CO}} 1750–1800 \text{ c}^{-1}$ .

4.  $\text{u}_2\text{Fe}(\text{CO})_4$ .

0.745 (90%)

$\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2$ , 10 .

10% (0.255 ).

400–1000 ,

1000–1150<sup>0</sup>

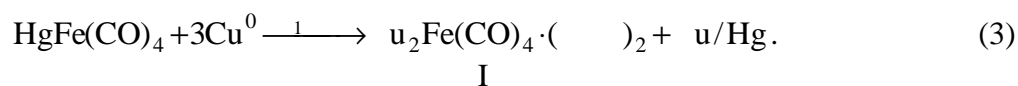
90% Fe, 10%  $\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2$  3%-

NaCl.

$\text{u}_2\text{Fe}(\text{CO})_4 \cdot (\text{ })_2$  [5].

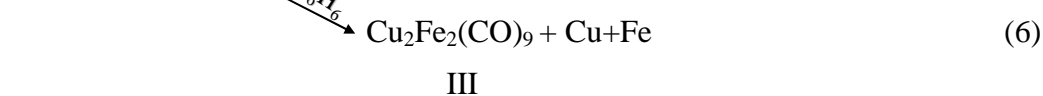
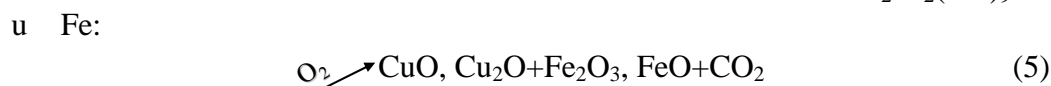
[3].

[illegible]



I (3) . -  
I v 1970, 2048 <sup>-1</sup> v - ( ) 1050, 880  
<sup>-1</sup>,  
, I (10<sup>-1</sup> u(I) . .) 50–80<sup>0</sup>  
:  
$$\text{u}_2\text{Fe(CO)}_4(\text{ }) \longrightarrow \underset{\text{II}}{\text{u}_2\text{Fe(CO)}_4} + 2 \text{ } . \quad (4)$$
  
- II , v<sub>CO</sub>  
.  
v<sub>CO</sub> 1680–1690 <sup>-1</sup>,  
– 1778–1785 <sup>-1</sup>, – 2050–2060 <sup>-1</sup>,  
,  
I II, 20–400<sup>0</sup>  
: t<sub>1</sub> – 20–  
85<sup>0</sup>C ( ), t<sub>2</sub> – 85–108<sup>0</sup> ( ), t<sub>3</sub> – 109–120<sup>0</sup> ( ).  
, t<sub>1</sub>  
, t<sub>2</sub> – , t<sub>3</sub> –  
I II.

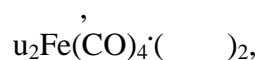
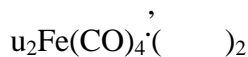
2 (5) , II  
(6) –  
u<sub>2</sub>Fe<sub>2</sub>(CO)<sub>9</sub>



III 6 6

.  
(μ = 0) u<sub>2</sub>Fe(CO)<sub>4</sub>·( )<sub>2</sub>  
, 90%  
Fe 10% u<sub>2</sub>Fe(CO)<sub>4</sub>·( )<sub>2</sub>  
u<sub>2</sub>Fe(CO)<sub>4</sub>·( )<sub>2</sub>  
80–150<sup>0</sup> .  
400–  
1000  
« » .  
1000–1150<sup>0</sup> .

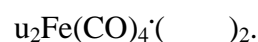
[6].



Fe–

u,

296



1. . . . . / . . . . ,
2. . . . . : , 1984. – 236 .
3. / . . . . . . . . . . , 1986. – 256 .
4. . . . . / . . . . . . . . . . . –
5. , 1991. – 432 .
6. (I) . . . . . I 2007 0096 / . . . . .
7. : . . . . . I 2007 0223 / . . . . .
8. . . . . / . . . . . . . . . . . –
9. : « . . . . . », 2010. – 184 .

20.02.2012.

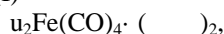
Y.A. Abdulazimova, A.T. Mammadov,  
G.Z. Suleymanov

#### SYNTHESIS OF A NEW COMPLEX AND USE METALLKARBONILNOGO ITS FOR POWDER MATERIALS

The thermal, structure and other physico-chemical properties of the complex have been investigated by synthesizing and studying dicopper(I)irontertracarbonil, which had been unknown before complex  $\text{u}_2\text{Fe}(\text{CO})_4(\text{C}_5\text{H}_5)_2$ . It is shown that the utilization of the complex as more effective alligage component should be possible on the obtaining of powder materials.

**Keywords:** dicopper(I)irontertracarbonil, powdered material, the synthesis of the alloying component, the cluster compound ferrocene.

(I)



: (I)