



... , ... , ... , ... , ... ,  
 ... , « » ( . )

The basis of theoretical accounts and experiments the opportunity of synthesis given of a chromophoron phase for reception of painted hardware glasscrystal coverings is shown. The influence of structure glassmatrixe on formation of the given phase and operational characteristics of coverings is investigated. The structures of coverings on ceramics on a basis the wastes of catalysts are tested in industrial conditions.

**1.**

... :  
 ... ,  
 ... ,  
 ... [1].

... ,  
 ... ,  
 ... ,  
 ... [2].

10 . %  
 ( - , - , )

B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>,

[3].

1.

[4].

	, %											
	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	B <sub>2</sub> O <sub>3</sub>	MgO	CaO	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	K <sub>2</sub> O	Na <sub>2</sub> O	NiO	TiO <sub>2</sub>
<b>15</b>	51,41	23,75	9,97	4,31	0,48	0	0,41	0	1,85	3,82	3,85	0,15
<b>20</b>	51,14	12,74	9,88	4,04	1,10	0	9,73	5,09	1,99	4,13	0	0,17
<b>25</b>	55,46	13,15	10,75	4,65	0,52	1,10	8,09	0	1,99	4,12	0	0,17

, f<sub>Si</sub>,

lg

( 5 ).

2

	15	20	25
	, 10 <sup>-6</sup> -1	4,76	5,51
, /	0,383	0,351	0,357
, lg	6,1599	4,5851	5,3112
	0,306	0,317	0,419
	-0,079	0,036	-0,014
	[AlO <sub>4</sub> ][AlO <sub>6</sub> ]	[AlO <sub>4</sub> ][ O <sub>3</sub> ]	[AlO <sub>4</sub> ][AlO <sub>6</sub> ]
f <sub>Si</sub>	0,24	0,28	0,288
	3,61	3,664	3,61

15

[Si<sub>4</sub>]<sup>4+</sup>,

[Si<sub>4</sub>]<sup>4+</sup>,

Mg<sup>2+</sup>

FeO+MgO+SiO<sub>2</sub> MgFe SiO<sub>4</sub>;

NiO+MgO+SiO<sub>2</sub> MgNiSiO<sub>4</sub>

20

FeO+Fe<sub>2</sub>O<sub>3</sub> Fe Fe<sub>2</sub>O<sub>4</sub>;

FeO +Al<sub>2</sub>O<sub>3</sub> Fe Al<sub>2</sub>O<sub>4</sub>

25

3. (Ca,Mg)Al<sub>2</sub>Si<sub>2</sub>O<sub>8</sub>+ FeO + Cr<sub>2</sub>O<sub>3</sub> (Mg, Fe)(Al,Cr)<sub>2</sub>Si<sub>2</sub>O<sub>8</sub> +CaO

(Mg, Fe)·(Cr, Al)<sub>2</sub>O<sub>4</sub>,

930 – 1060 5%.

[AlO<sub>4</sub>][SiO<sub>4</sub>],

[AlO<sub>4</sub>][O<sub>3</sub>],

[AlO<sub>4</sub>][AlO<sub>6</sub>],

80 180. 1060

(< 2 )

1060

( 15),

15% ( 20)

Fe<sup>3+</sup> 25 10%.

Fe<sup>2+</sup>

3

	15	20	25
1060	1060	1060	1060
		-	
	580	514	583
, %	12	10	20
( ), L	30,136	13,519	29,745
	1,502±0,003	1,510±0,003	1,497±0,003

228-350-10<sup>-3</sup> .

4

	15	20	25
, / <sup>2</sup>	0,021	0,02	0,025
,	7400	7500	7000
,°	200	200	175
,10 <sup>-6</sup> <sup>-1</sup>	4,95	4,88	5,37

1060

[5].

“ ”

: 1.

// : , 1999. - 2.

// : “ ”, 2001. - 3. -

. 30-35. 3. : 05.17.11 / , 1997. - 20

4. “ ” // “ ” -

. - 2001. - 19. - 14-18. 5. “ ” // “ ” -

“ ” - 2002”. - , 2002. - 30.

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