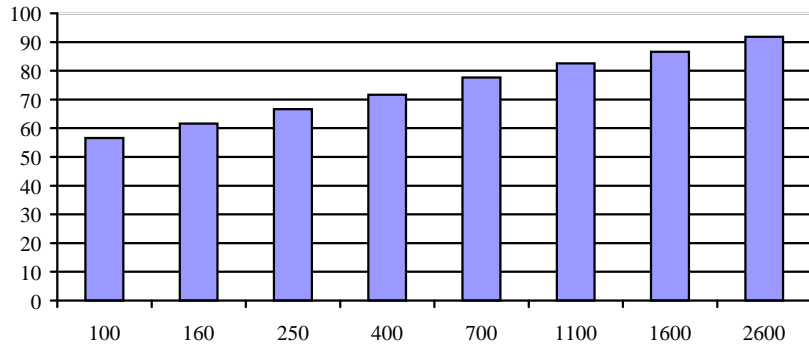


... , ... , ... , ... , ... ,
... « » (.)



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 %
(, ,)

1300 / 3).
:
1. (... 2004. - 485 . **2.** //
« - 2002.- . 22-29. **3.** ».
// « - 2002.- . 44-50. **4.** 2642
/ B.I.,
. 15.07.2004; . 7. **5.** .
/ , 1999.- . 51-61.
10.04.06

B₂O₃-SiO₂,

[3].

1.

[4].

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

, f_{Si},

lg

(5).

2

	15	20	25
	, 10 ⁻⁶ -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 ₄][AlO ₆]	[AlO ₄][O ₃]	[AlO ₄][AlO ₆]
f _{Si}	0,24	0,28	0,288
	3,61	3,664	3,61

15

[Si₄]⁴⁺,

[Si₄]⁴⁺,

Mg²⁺

FeO+MgO+SiO₂ MgFe SiO₄;

NiO+MgO+SiO₂ MgNiSiO₄

20

FeO+Fe₂O₃ Fe Fe₂O₄;

FeO +Al₂O₃ Fe Al₂O₄

25

3. (Ca,Mg)Al₂Si₂O₈+ FeO + Cr₂O₃ (Mg, Fe)(Al,Cr)₂Si₂O₈ +CaO

(Mg, Fe)·(Cr, Al)₂O₄,

930 – 1060 5%.

[AlO₄][SiO₄],

[AlO₄][O₃],

[AlO₄][AlO₆],

80 180. 1060

(< 2)

1060

- 45

(930 – 1060)

(15),

15% (20)

Fe³⁺ 25

10%.

Fe²⁺

3

	15	20	25
	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

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

1060

[5].

1. // : 1. // : 1999. - 2. // : " ", 2001. - 3. - 30-35. 3. // : 05.17.11 / , 1997. - 20 4. // " " - 2001. - 19. - 14-18. 5. // " " - 2002". - , 2002. - 30.

07.04.06

“ ”, ()

, % : Fe₂O₃ = 85,4; Cr₂O₃ = 8,6; CuO = 2,1; S 0,01 (450 °) 3,3 85 56

There is shown that the activity of domestically produced CTK-CM catalyst (structure is in an oxidized form by general components, % mass: Fe₂O₃ = 85,4; Cr₂O₃ = 8,6; CuO = 2,1; S 0,01) remains permanent after its stabilization (450 °) and 3 cycles of heating-cooling (count of cycles is after catalyst's renovation) attached to overwork with dry gas 3,3 times more than in industry. General term of work is 85 hours, including 56 hours in conversion conditions. As an extra conclusion: investigations of kinetics by this catalyst will be correct during periodical mode of labware's work.

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