

2.
" - "
(GB)

8 7,4 50% 84 .. 8,4 - 84 . 12 . 0,1% 2 2 GB -
3% GB -
50

: 1. Glasser H., Chang D.P.Y., Hiekman D.C.J. All Waste Manage. Assoc., 1991, v. 41, N 9, P. 1180-1188. 2. VI (15-20 1990). : 1990, 127 . 3. Abrams J.T., Barker R.L., Jones W.E., Woodward F. J.Soc., Chem.Ind., 1949, v. 68, N 8, P. 237. 4. 1986, . 27, N 4, . 860-868. 5. , 1938. 587 . 6. (10-11 1993). , 1993, .13-14. 7. Szafnaniec Liuda L., Rohrbaugh Denni K., Procell Lawrence R., Moclner Brian K., Yang Yu-Chu., , 16-19 1993 . Oxidation of Lewisite and sulfur and nitrogen mustards / // Sci. Conf. Chem. Def. Res. Aberdeen, Md, 16-19 Nov., 1993: Abstr. Dig. / US Army Edgewood Res Dev. And Eng. Cent. - [Aberdeen (Md)], 1993. - P. 44. - 8. Bunton C.A., Foroudian H.J., Kumar Anurad, . Oxydation of

sulfides and oxidative hydrolysis of thioaryl esters by peroxy monosulfate (78) / // Sci. Conf. Chem. Def. Res. Aberdeen, Md, 16-19 Nov., 1993: Abstr. Dig. / US Army Edgewood Res Dev. And Eng. Cent. - [Aberdeen (Md)], 1993. - P. 44. - 9. Bartram P.W., The oxidation of 2-chloroethyl phenyl sulfide by magnesium monoperoxyphthalate (88) / // Sci. Conf. Chem. Def. Res. Aberdeen, Md, 16-19 Nov., 1993: Abstr. Dig. / US Army Edgewood Res [Aberdeen (Md)], 1993. - P. 48. - 10. Hovanec J.W., Henderson Vikki D., Albizo Johnnie M., The destruction of Vx in aqueous sodium hydroxide with and without hydrogen peroxide (124) // Sci. Conf. Chem. And Biol. Def. Res. Aberdeen, Md, 15-18 Nov., 1994: Abstr. Dig. - [Aberdeen (Md)], 1994. - P. 61. -

23.05.06

621.35

The electrode reaction occurring during anodic polarization of aluminum and it alloys in alkaline solutions with oxoanions of different nature were studied. The mechanism and kinetic parameters of the steps affected by these ions were determined. The characteristic criteria analyses result in general scheme reflected totality of reactions.

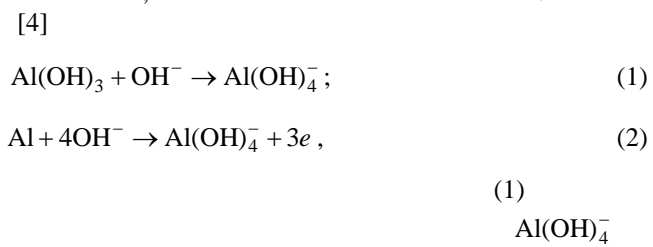
[1], [2], [3] (,)

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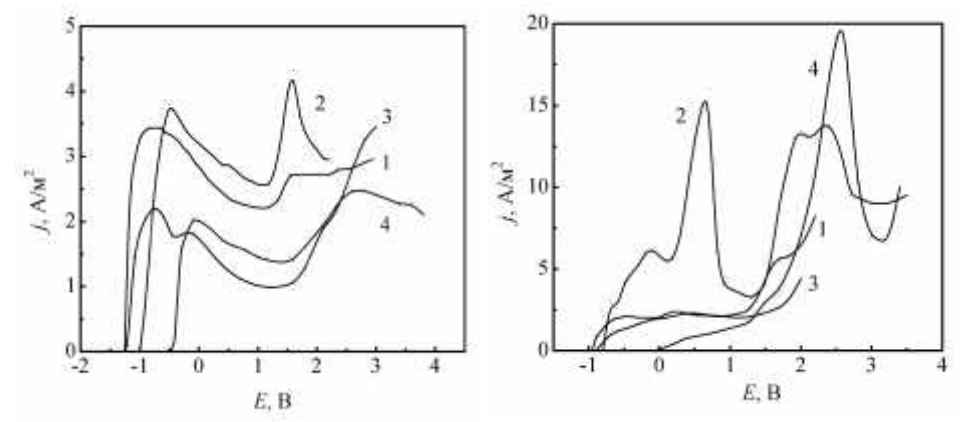
99,809 %; Fe – 0,157 %; Cu – 0,034 % (Al –)
 OH ($c_{OH^-} = 0,01...0,05$ /) ($Mn = 1...1,6$ %)
 ($- P_2O_7^{4-}$, $- MnO_4^-$)

$s = 2 \cdot 10^{-3} ... 10^{-1}$ /
 -50-1.1 -8 -2
 0,25 $\dot{}$, - , -

(.1 , 1),
 (.1 , 1),
 ()



j / s
 $s = 2 \cdot 10^{-3} ... 2 \cdot 10^{-2}$ / ,
 $X_s = 0,5$ (.2) $X = 0,92$



.1. () () :
 1 – (0,035 /); 2 – $K_4P_2O_7$ (1 /);
 3 – $KMnO_4$ (0,01 /), (0,035 /);
 4 – $KMnO_4$ (0,5 /), (0,035 /).
 $2 \cdot 10^{-2}$ /

$2 \cdot 10^{-2}$ /

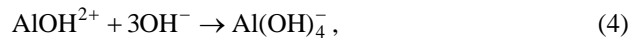
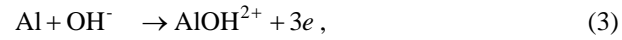
| | | j_2 | | | $j, / ^2$ | | |
|--------------------------------|-------|-------|------|------|-----------|------|-------|
| | | 1 | 2 | 3 | 1 | 2 | 3 |
| (0,035 /), = 12,5 | | | | | | | |
| Al | -1,25 | -1,21 | – | 1,36 | 3,44 | – | 0,64 |
| | -0,96 | -0,86 | 0,08 | 1,45 | 2,08 | 0,38 | 3,62 |
| $K_4P_2O_7$ (1 /), = 11,2 | | | | | | | |
| Al | -1,00 | -0,74 | – | 1,42 | 3,79 | – | 1,76 |
| | -0,84 | -0,67 | 0,23 | 1,47 | 6,15 | 10,6 | 10,82 |
| $KMnO_4$ (0,01 /), (0,035 /) | | | | | | | |
| Al | -1,26 | -1,06 | – | 2,56 | 2,21 | – | 2,36 |
| | -0,98 | -0,83 | – | 0,18 | 2,61 | – | 1,41 |
| $KMnO_4$ (0,5 /), (0,035 /) | | | | | | | |
| Al | -0,48 | -0,34 | – | 2,10 | 3,79 | – | 1,12 |
| | -0,04 | 1,37 | – | 2,27 | 2,12 | – | 17,91 |

(1 – 2),
 $s > 2 \cdot 10^{-2}$ / ,
 1,

$$p_{\text{OH}^-} = 0,9 \quad (2).$$

$$p_{\text{OH}^-} \quad [5]$$

$$j \quad c_{\text{OH}^-}$$



$$s > 2 \cdot 10^{-2} / \quad (3).$$

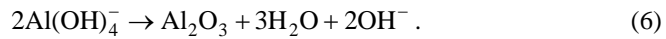
(3)

$$= 0 - 0,02 \quad (5)$$

$$(3-4), \quad [6],$$

(3-4).

$$- s (\quad .3) \quad [7],$$

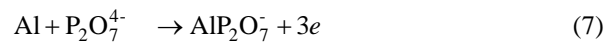


(\quad .1, \quad 2)

11,2.



$$p_{\text{P}_2\text{O}_7^{4-}} = 0,8$$

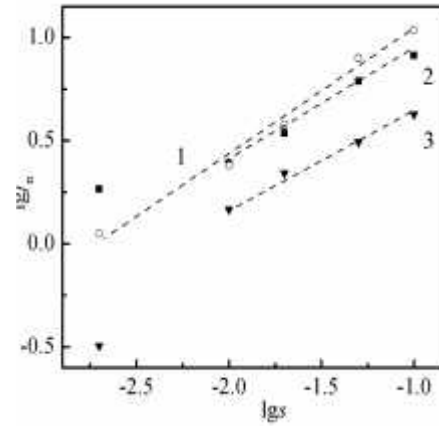


$$1 - s \quad (\quad .3),$$

$$(3-6).$$

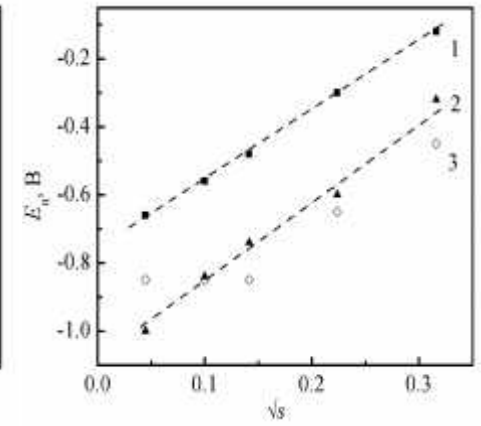
$$(\quad) j$$

$$10^{-7} \dots 10^{-8} \quad (7).$$



.2.

1 - (0,035 /);
 2 - $\text{K}_4\text{P}_2\text{O}_7$ (1 /);
 3 - KMnO_4 (0,01 /),
 (0,035 /)



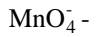
.3.

1 - $\text{K}_4\text{P}_2\text{O}_7$ (1 /);
 2 - KMnO_4 (0,01 /),
 (0,035 /);
 3 - (0,035 /)

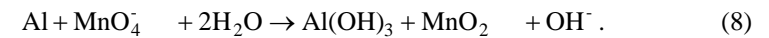


(\quad .1, \quad 3, 4)

$$\lg[j : j/(j - j)]$$



$$j / s$$



(1, 3, 4)

$$1 - s (\quad .3).$$

-lgs.

MnO₄²⁻ MnO₄⁻ -
 - (-
), (-
) - (-

[8].

1. , - , -

2. -

- 1. 1985.- 144
- 2. 1988.- 224
- 3. // 1993.- 29, 5.- 729-734
- 4. 1984.- 400
- 5. 1990.- 272
- 6. 1986.- 152
- 7. //
- 8. 1981.- 17, 11.- 1621-1627
- 9. 2005.- 6.- 153-156

10.03.06

666.946.6

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The results of the research in the studying of influence of polyfunctional modifiers on the qualities of refractory are given. Changes of breaking point under pressure and accessible porosity of the cement examples with additions during hydration were analyzed. Efficiency of the experimental additions in matching with industrial additions-modifiers was proved by the results of RFA and DTA.

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[1],
) (- ,