## EVALUATION OF THE INHIBITORY CAPACITY OF THE INHIBITOR BASED ON IMIDAZOLINE

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Key words: hydrogen sulfide corrosion inhibitor; inhibitor of carbon dioxide corrosion;
                              Imidazoline; inhibitor effectiveness
            ),
                                                [1–3].
                           P_2S_5
```

```
10
                       (=\!Y)\;NHCH_2CH_2NCH_2CH_2NHCH_2CH_2R
                           , R —
   Y —
                          [5–6].
26, 50, 100 / .
                                                             6
                500
                                                                   .
. 1).
```

. ,	12, /	MgCl <sub>2</sub> , /	NaCl, /	CaSO <sub>4</sub> , /	HCl (15 %),
1	17	163	34	1,4	16,6

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```
9.506-87.
                                                    15 %-
6
     1)
:
2)
     3)
S —
                          Z
                                               Z = \frac{V_{k0} - V_{k1}}{V_{k0}},
      V_{k0} —
                                                          H_2S
```

H2S, /	, /	V , / <sup>2</sup> *	Z, %
100	26	0,0112,	78
100	50	0,0031	90
100	100	0.0022	95

```
, _{H2S}=100 \ \ / \ , , ( \ \ .1). , , \ \ - ( \ \ H_{2}S \ \ ).
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H2S, /	, /	V , / <sup>2</sup> *	Z, %
0	26	0,0059	80
0	50	0,0092	69
0	100	0.0122	59

 $\frac{100}{60}$  / ( . .2).  $\frac{8}{60}$   $\frac{100}{60}$   $\frac{100}{60}$   $\frac{26}{60}$   $\frac{50}{60}$   $\frac{100}{60}$  Концентрация ингибитора, мг/л . . 2. ,  $\frac{H_2S}{100}$  ,  $\frac{H_2S}{100}$  ,  $\frac{H_2S}{100}$  ,  $\frac{H_2S}{100}$  ,  $\frac{H_2S}{100}$  ,  $\frac{H_2S}{100}$ 

. 26 / 24, 48, 72 96 . 4.

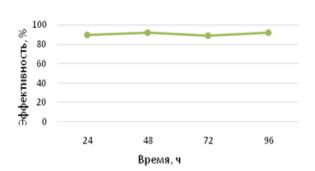
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H<sub>2</sub>S <sub>2</sub>, 24, 48, 72 96

H2S, /	, /	,	V , / <sup>2</sup> *	Z, %
100	26	24	0,0039	90
100	26	48	0,0034	92
100	26	72	0,0041	89
100	26	96	0,0035	92

, .



. 3.

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 $H_2S$   $_2$ ,

4. . K., . . ., . . .// EUROCORR-2008 2008, ( ).

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