

25-30%
10x20
10
()
100 [8],
[9]

[3, 4],
([1, 2],)
[1-4]

45-50%.
[5]

60). ()
[6],
[7]

70-85% 100

3-4
1,3-1,5 / ³,
[10],
6-8
1,7-1,9 / ³,
[10]
50-55%

10-15
1,1-1,2
2,0-2,2
3 8

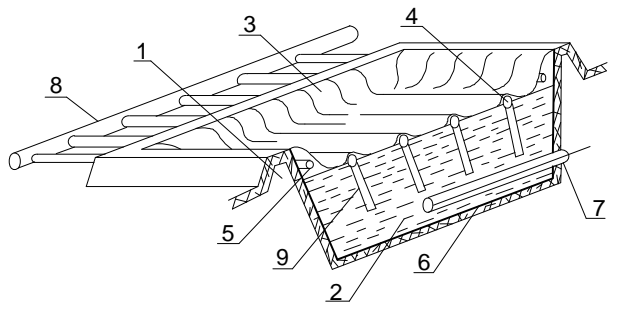
10-15 ;
()

4-5

[11],

[12].

. 1.



. 1.

- 1 - ; 2 - ; 3 - ;
- 4 - ; 5 - ;
- 6 - ; 7 - ;
- 8 - ; 9 - ;

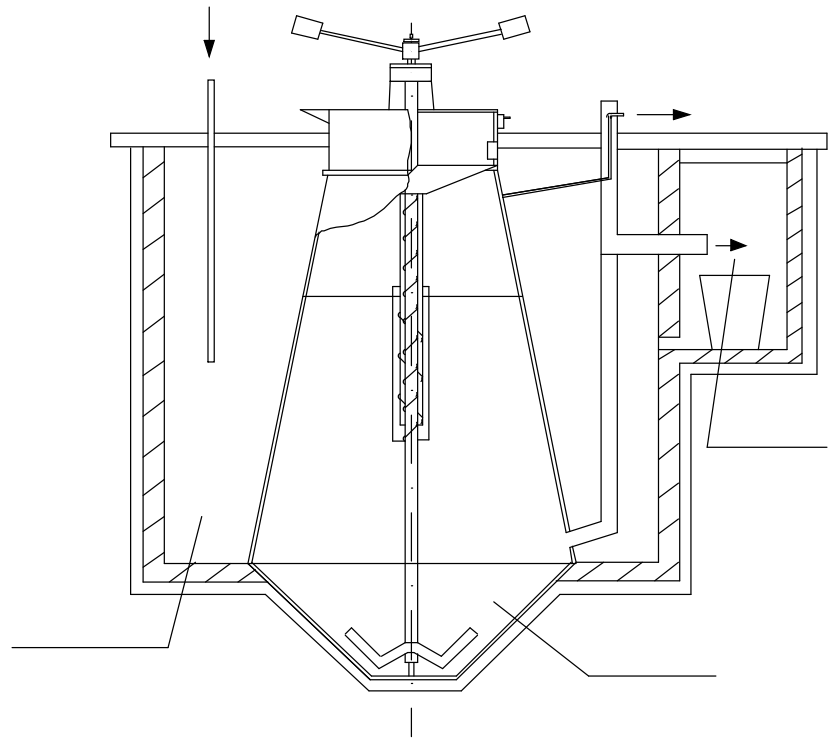
[13];

-6,0³, -5,8, - 3.

4,5-5³ / , - 200 / ,
 - 10 / .
 (.1, 2)
 [14, 15],

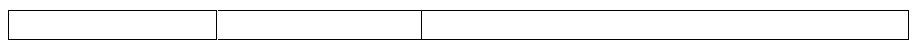
47

. 1.



. 2.

1



	, %	-	-
	17,2	0,0620	0,0710
	53,0	0,1288	0,1866
-	27,8	0,0889	0,1240
		L = 0,2796	L = 0,3130

[14]:

$$L_{oi} = 11088 \cdot \frac{n_c}{\tilde{i}} (1-A) \cdot B_f \quad (1)$$

$$L_o = \sum_{L=1}^n (L_i \cdot x_i)$$

$n_c -$
 $\mu_i -$
 $f -$
 f
 $0,50.$
 $-0,82.$

$$V_{CH_4} = (1-W) \cdot L_o \cdot M \cdot k \cdot e^{-k(t-t_e)}, \quad (2)$$

$$V = (1-W) \cdot L_o \cdot M \cdot k \cdot e^{-kt}$$

$W -$
 $k -$
 $V -$
 $V_4 V$
 $L_o, k, e,$
 $[15]$
 $.1,$
 $k =$

$1,72 \cdot 10^{-4} 1/$
 $(6,28 \cdot 10^{-2} 1/)$
 $= 15$
 $3-4$
 $.1,$
 90
 1

28-32° , , [16],
120 -
(2).

$$Q = (1-W) \cdot M \cdot \sum (L_{oi} \cdot x_i \cdot B_f) (1 - e^{-kt}) \quad (3)$$

.2, 3.
2.

(-0,01)

	(. .),	, /	(. .), /	, /
5	0,3	0,29	0,16	0,5
10	0,8	0,77	1,9	1,77
15	1,4	1,33	3,57	3,33
25	4,8	4,56	9,1	8,43
50	10,2	9,69	15,4	14,0
60	18,3	17,3	20,5	19,0
70	21,2	20,1	20,5	20,0
80	20,1	19,1	28,4	26,5
90	35,4	33,6	42,3	39,34
	113,0	106,8	142,2	132,9

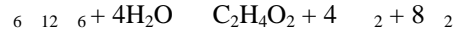
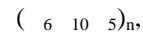
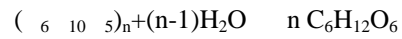
[17, 18].
(/ ³): - 3,1 ± 0,2; - 14,0 ± 0,3;
- 0,045 ± 0,005; - 0,025 ± 0,001; - 0,057.
3
(-0,001)

	(. .), /	, /	(. .), /	, /
3	0,0736	0,0536	0,0930	0,0884
7	0,1476	0,1250	0,1880	0,1786
10	0,1844	0,1786	0,2344	0,2227

15	0,2580	0,2678	0,3105	0,2950
21	0,1342	0,318	0,51	0,4845
30	0,6556	0,609	1,05	0,9975
53	1,5088	1,403	3,74	3,553
75	2,1840	2,013	5,01	4,7595
120	7,0104	6,520	10,80	10,26
	12,40	13,50	21,93	20,84

$$\% \dots - 52 + 5 \dots - 46 + 3 \dots - 20$$

$$50$$



[15]:

$$\frac{\partial}{\partial t} = -kC \quad (4)$$

k

$$), k = 1/0,5, 500$$

$$1/ \dots [15]$$

$$k = 0,098 \ 1/ \dots$$

$$, k \ 1,2 \ 10^{-2} \ 1/ \dots$$

$$, 1,6 \ 10^{-2} \ 1/ \dots$$

1,3

$$k = 1,72 \ 1/ \dots$$

$$1,6 \dots$$

$$, k = 2,752 \ 10^{-4} \ 1/ \dots$$

[14, 15].

(1-3)

. 2, 3.

Statistica

$$r = 0,975.$$

[19, 20],

95%.

25%.

$$, V = 0,003 \ / \dots \ . 4$$

NH ₃	+	150	85,0	98,5
H ₂ S	+	150	85,0	99,6
	+	150	85,0	91,8
	+	150	85,0	71,5

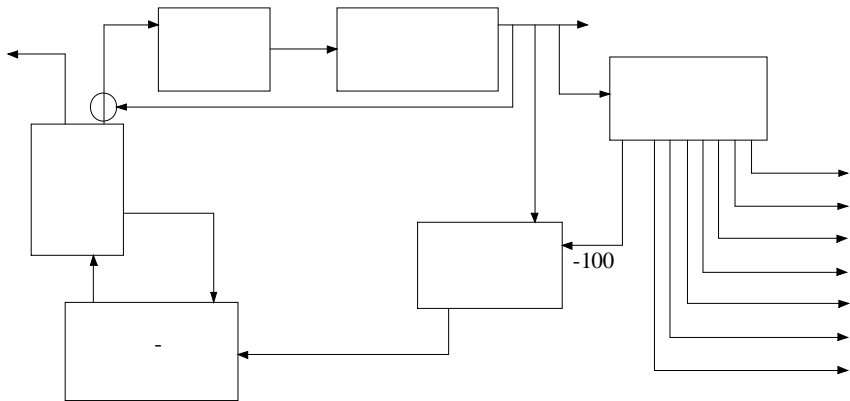
. 4,

(1:1)

71%, 2 - 29-30%, - 0,5%.

-130 [21].

(.3).



.3.

... , 2000. . 130. **9.** ...
... // ... 3/1 [15].
2005. . 56-64. **10.** ...
... .73. . 1. 2004. . 62-65. **11.** ...
/ ...
... , 2004. . 271-275. **12.** ...
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/ ... , 2001. 133 . **17.** ...
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... / ... : “ ... ” , 2005. 345 . **19.** . 20.
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... , 3119-84. **20.** ...
... // ...
3, 2004. . 51-55. **21.** ...
1985. **22.** ... // ... 3-4, ...
2002. . 12-14. ...

25.04.06

641.851.86:664.3

... , ... , ...
... , ... , ...

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72-83. **2.** ... // ...
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4. ...
I // ... , 2003. 21 . **5.** ...
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... // ...
... , 1986. 6. . 3-13. **8.** ... ()