

4.3.

4.3.2.

NO_x

-87

()

-87

NO_x

-87

N

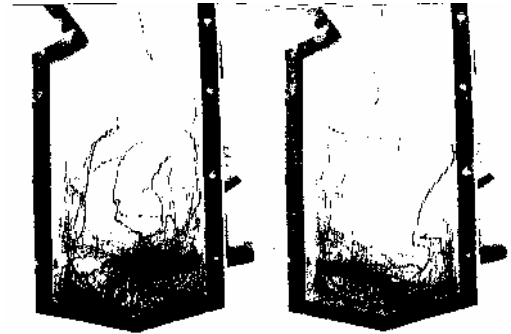
-87 (. 9)

2005

» [1]

. 1.

8,5°



. 2.

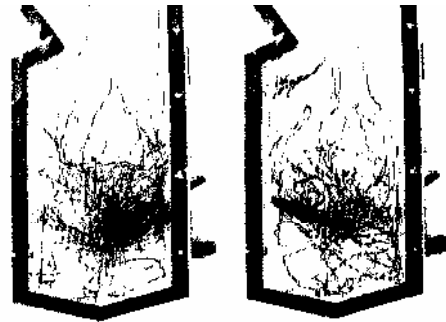
4;

9.

(

0,42.

(. 3)

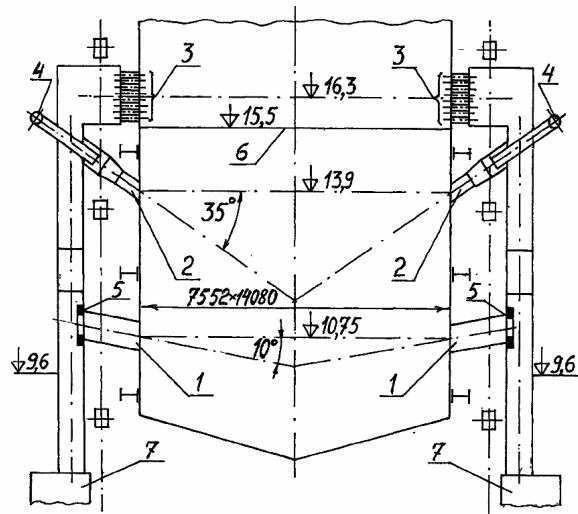


. 3.

4;

(12 .),

Ø 133×6



. 1.

: 1 -

Ø 720×7

; 2 -

Ø 377×6

; 3 -

Ø 133×6

; 4 -

Ø 325×6

; 5 -

Ø 470

; 6 -

; 7 -

8,5°

(),

10°

(

, (. 2)

2,84

2,37

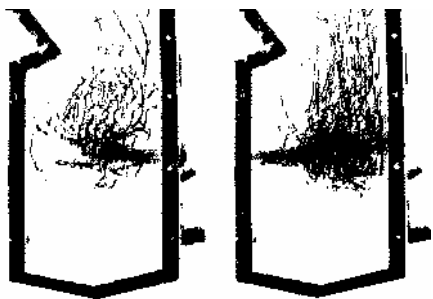
Ø 365

2:1.

(. . 4)

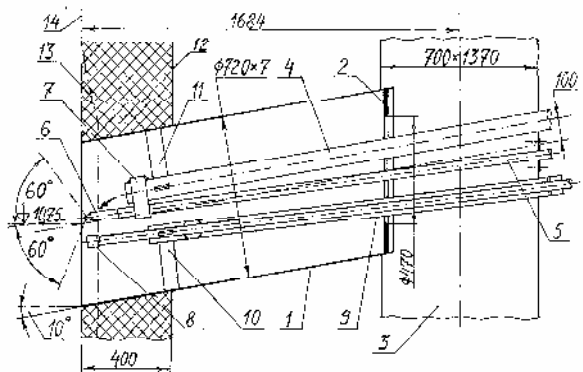
(35°)

560 570 / 3 1150...1200 / 3
0,55 %



4. : — 4; — 9.

5.



- 5. : 1 —
- 2 — ; 3 —
- 4 — Ø 89×6 ; 5 —
- Ø 42×5 ; 6 —
- 7 — ; 8 —
- 9 — ; 10 —
- 11 —
- 12 — ; 13 —
- 14 —

$= 0,4...0,45 / 2,$
190 /

Ø 4

6.

-87,

Ø720×7

— 120°.

Ø470

9

4.

Ø180

2006 .

9

70

5

2,5 .

2005 .

80...90 °

1160 °

(. 6).

(1200 °).

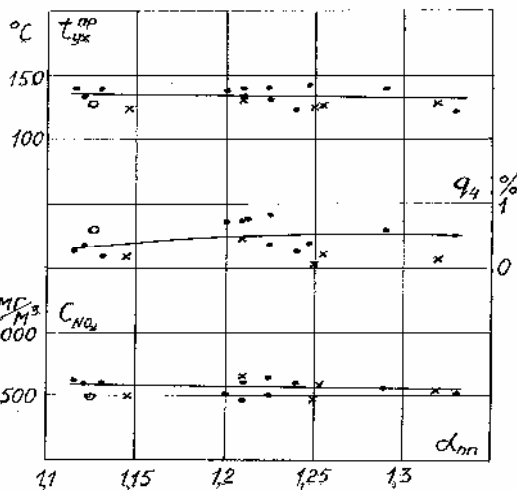
$= 1,25$

30

(),

: Q =4378...5847
/ , W =8,75...17,03 % , =11,7...20,66 % ,
V =40,8...42,4 % , N =2,4...2,5 % .

R₉₀
14...15 %.



6.

-87: • —

; × —

2006 - 2007 .,

2,5

0,3

93 % ,

: « »
1...2 % ,

N .

()

2-

», « »

35 15°.

(645 °) 2

(490)

(665 500

°).

(, = 0,1)
(, = 03),

	I	II	III	IV ()
.5. 470 . - Ø 180 , 100 -	.5. - Ø 180 , 100 -	.5. - Ø 180 , 100 -	.5. - Ø 180 ,	.7. 500 100 . -
2 / ,	1,932/4,695	4,9/4,9	4,9/4,9	0,58/0,6
- 2 -	0,589	1,022	1,022	0,589
; - 2 - 8,5	1,103; 8 Ø121 , - 8,5	1,103; 8 30 Ø121 - : 0 - 45 - -	0,926; 15 , - 386 200	1,103; 8 30 Ø121 - : 0 - 45 - -
()/ -	36,5/	39,5/	14,1/	39,5/
= 1,25, = 0,3 / ()	0,75/(0,2)	0,65/(0,3)	0,85/(0,1)	0,85/(0,1)
/ - / (2)	0,4/0,422/0,228	0,453/0,395/0,102	0,608/0,427/0,115	0,118/0,42/0,225/ - 0,387
(W)/ (W), /	17,1/41,5	18,55/18,55	24,9/24,9	28,2/40,95/ 21,7
W ² , 3/2	62862	13592	8742	66238
, /	320	315	370	
, : , , /	1590/1600 1610/1590 1310/1310	1580/1585 1550/1580 1285/1250	1430/1485 1525/1520 1275/1260	
, /	210	240	300	200
, -		1 , -	2 , -	
%	1...3	1...2	1...2	0,5...1,5
(D), N / ³ /	540...570 (360...550)	610...640 (370...550)	440...550 (400...550)	430...500 (350...550)
/ 2 . D ,	660/495	645/490	665/500	640/490
-				

6 (.5)

Ø 470

210 / ,

(426) .

Ø 180 ,

35° ,

-87 (.7)

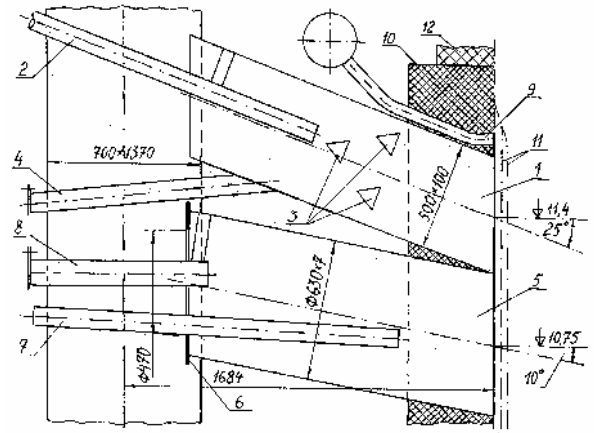
62862 ^{3/2} (.).

[2].

15°

8742 ^{3/2}

N , . .



300 / .

0,61 0,4

()

= 13592 ^{3/2}, 62862 ^{3/2}),

(, = 0,3,

(

.7.

-87 ; 1 -

; 2 - ; 3 - ; 4 -

; 5 -

; 6 - ; 7 -

; 8 -

; 9 -

(

; 10 -

; 11 -

; 12 -

).

30° ,

-87,

3
(= 0,61),

610...640 / ³ N

N .

(1,0 0,57) ,

440...550 / ³ N

(= 0,118

v = 0,263).

[2]

30...40 % ,

N

500 / 3.

(, ,),

(10°), (25°)

200 / ,

300 / -

-87

.7.

(

.);

;

10

(.8).

0,1 ();

, 4
2

()

;

30

8 Ø133 6 ,

, . . .

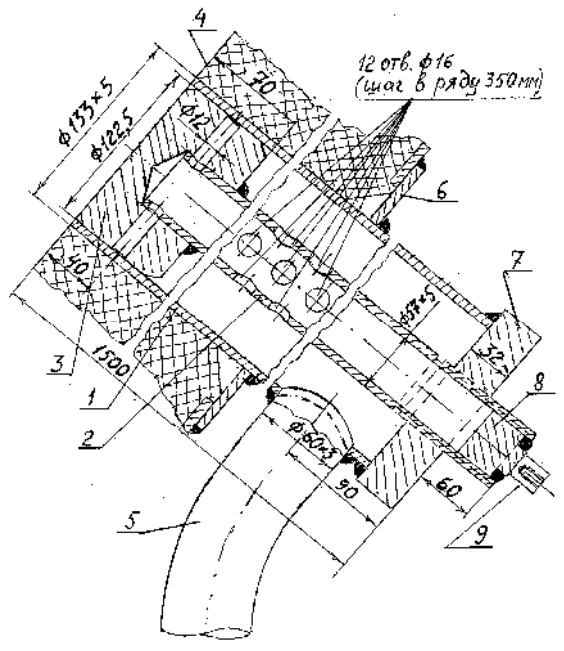
(.1),

;

N ,

Ø 630 7
Ø 470 .

-87 ().



.8.

-87 : 1 - ; 2 - ; 3 - ; 4 -
; 5 - (= 0,5...2 / 2); 6 -
; 7 -
; 8 - ; 9 -

1.

-87

2.

N
(570 / 3)

N

3.

12

N

640 / 3.

4.

210, 240 300 /

1, 2 3

35° 15°

5.

(1

)

6.

-87

(.7 8)

:

N

500 / ³;

) 1...2 %;

(

D

200 /

D = 420

/

;

-87 ,

1.

.. „

.. .

//

, 2007, 388 .

2.

.. „

.. „ II

«

», 23-24 , 2009 .

.. .104—109.

∴

.. „

.. .

NO_x//

, 6, 2010, . 31 – 40.