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( )  
INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION  
(ISC)

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**12.4.294-**  
2015  
(EN 149:2001+A1:  
2009)

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(EN 149:2001+ 1:2009, MOD)



2016

12.4.294—2015

1.0—92 «  
 » 1.2—2009 «  
 »  
 1 « - -  
 » ( « 5 »)  
 ? ( \*  
 )  
 3 ( -  
 27 2015 . 76- )  
 :

no ( 3166) 004-9?	( 3166) 004- 97	
	AM BY Z KG RU TJ UA	

4 18  
 2015 . 744- 12.4.294—2015 (EN 149:2001 \* 1:2009)  
 1 2016 .

5  
 EN 149:2001 \* 1:2009 Respiratory protective devices — Filtering half masks to protect against  
 particles — Requirements, testing, marking ( ).  
 , , 8.11.3—8.11.5. 11. , ,  
 (CEN)  
 (EFTA). 2006/95/ .  
 ( ).  
 — (MOD)

6 12.14.191— 2011 ( 149:2001+  
 + 1:2009)\*

\* 18 2015 .  
 744- 12.14.191—2011 ( 149:2001 1:2009) 1 2016 .

7 8

“ « », — ( ) -  
« » 8 -  
« » -  
— , -

1	.....	1
2	.....	1
3	.....	1
4	.....	2
5	.....	2
6	.....	2
7	.....	2
7.1	.....	2
7.2	.....	2
7.3	.....	3
7.4	.....	3
7.5	.....	3
7.6	.....	3
7.7	.....	3
7.8	( ) .....	3
7.9	.....	3
7.10	.....	4
7.11	.....	4
7.12	.....	4
7.13	/ .....	4
7.14	.....	4
7.15	( ) .....	5
7.16	.....	5
7.17	.....	5
7.18	.....	6
8	.....	6
8.1	.....	6
8.2	.....	7
8.3	.....	7
8.4	.....	7
8.5	.....	9
8.6	.....	10
8.7	.....	13
8.8	.....	16
8.9	.....	16
8.10	.....	17
8.11	.....	19
9	.....	20
9.1	.....	20
9.2	.....	21
10	.....	22
11	.....	22
	( ) .....	23
	.....	24

Occupational safety standards system. Respiratory protective devices. Filtering half masks to protect against particles.  
General specifications

— 2016—06—01

1

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( ):

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- ;
- ;
- 

2

8

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12.4.246—2013

EN 13274-7—2012

7.

« »,

« » 1

< ) ( ),

3

8

[1],

\*

12.4.294—2015

3.1  
particle filtering half mask):

(non re-useable (NR)

3.2  
filtering half mask):

(re-useable (R) particle

4

) / ( -

5

- FFP1 —
- FFP2 —
- FFP3 —

FFP2 FFP3.

6

12.4.294.

1  
D

12.4.294— 2015 FFP1 NR (

D

2

12.4.294—2015FFP2RD (

7

7.1

7.2

s5 %

16 \* — 32 \* .

±1 ° .

7.3

7.4

8.2.

7.5

;

\*

/ , ) ,

(

(8.3.1 8.3.2).

(8.3.2)

( )

(8.6).

7.6

7.9.2.

8.11.

7.7

8.4.

8.4

7.8

( )

8.2.

7.9

7.9.1

( )

46 50

(10 5 )

- 25%—

- 11% »

- 5% »

FFP1;  
FFP2;  
FFP3.

8 10

10

• 22%—

- 8% »

- 2% »

FFP1;  
FFP2;  
FFP3.

8.5.

7.9.2

1.

	9S 3/ . . .	95 . . .
FFP1 FFP2 FFP3	20 6 1	20 6 1

8.11 EN13274-7 :

- 
- 

8.11 ( 8.3.1. ), 120 -

8.11.5. -

8.3.2. 8.3.3

8.3.2 8.3.3 -

1. 8.11. -

7.10 8.11. -

7.11 5 -

7.12 7.11 8.6. (7.5). -

7.13 1.0% 8.7. -

7.14 8.4 8.5. -

8.4. -



7.15 ( )

8.2 8.9.1.

8.2.

300 3/

30 .

8.3.4.

10 .

8.8.

10 .

7.16

2.

2—

			160 ^
	30 ^/	95 ^/	
FFP1	60	210	300
FFP2	70	240	300
FFP3	100	300	300

2

8.9.

7.17

7.17.1

8.10

833 / 3.

7.17.2

7.17.2.1

(8.10)

95 3/

- 400 — FFP1.
- 500 » » FFP2;
- 700 » » FFP3.

300

160 3/ .

(8.10)

8.9.

7.17.2.2

(8.10)

95 3/

- 300 — FFP1:
- 400 » » FFP2:
- 500 » » FFP3.

8.9.

12.4.294—2015

7.17.3

{ / }

7.9.2.  
8.11.

7.18

\*

8.2.

8

8.1

-

( )

3.

3 —

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			*)	
	7.3. 7.4. 7.S. 7.6.7.15.7.18		( )	8.2
	7.S	3 3	PH	8.2
	7.6	5		
	7.7	2		8.4
	7.9.1	10	(5). (5)	8.5
	7.9.2	9 ( )	(3). PH (3) ( + 8* ) (3)	8.11 12.4.246 ( .4)
	7.10	10	(5). (5)	8.4. 8.5
	7.11	4	(2). (2)	8.6
	7.12	3		8.7
/	7.13	10	(5). (5)	8.4. 8.5
	7.14	2	(2)	8.4
	7.15	10	(5). (5)	8.5.8.2
	7.15	3	(1). (2)	6.3.4. 6.2
	7.15	3	(1). (1). <1)	8.8. 8.2
( )	7.16	12	(3). PH (3). (3). (3)	8.9

3

		*	**	
( ) -	7.16		( )	8.9
( )   -	7.17	3	(3). PH (3). (3)	8.10
(FFP1*FFP2+FFP3>	7.18		(1) (2)	8.2
<p>* " — 8— PH— — — —</p>				

8.2

8.3

8.3.1

25 / 2 3/

37 \*  
(37±2) ' .

20

10

8.3.2

- a) (7013)\* 24 ;
- b) ( 30 ±3)\* 24 .

4 .

8.3.3

12.4.246.

8.3.4

8.3.2.

8.4

8.4.1

8.2.

a)

b)

c)

d)

8.4.2

8.4.3

a)  
(1.3±0.2) ;

b)  
(0,70±0.05) ;

c)

;

/ ;

;

;

( ) 10

— 20

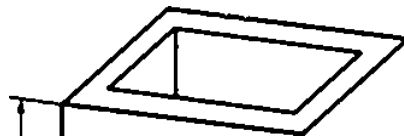
5

5

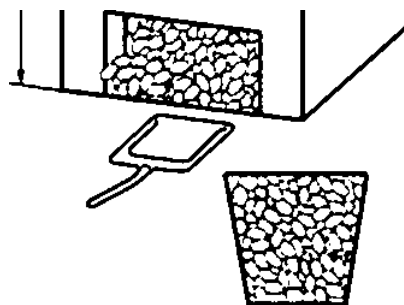
8<sup>3</sup> ( 1)

1.5

20 10



«



8.5  
8.5.1  
8.5.1.1

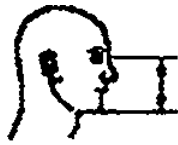
8.3.2.

8.2.

10

( )

2.



\*

>

2—

8.5.1.2

0.1—0.2 / .

6 / .

8.5.1.3

a)  
b)

6 /

2

c)  
d)  
e)

2

0

1)

2

2)

(

15 )

2

3)

(

15 )

2

4)

2

5)

2

)

1)

2)

)

i)

j)

8.5.2

(NaCl)

8.S.2.1

NaCl.

NaCl

.5.2.2

NaCl

2 %-

NaCl ( . . )

3.

100 3/

7 10<sup>5</sup>

NaCl

(8 ± 4) / 3.

NaCl

10 %.

NaCl

0,02

2

(

)

0.6

NaCl

a)

NaCl

5 / 3

15 / 3;

NaCl

b)

15

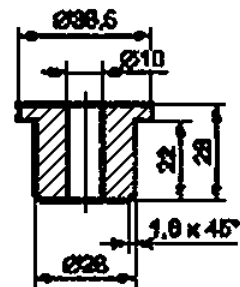
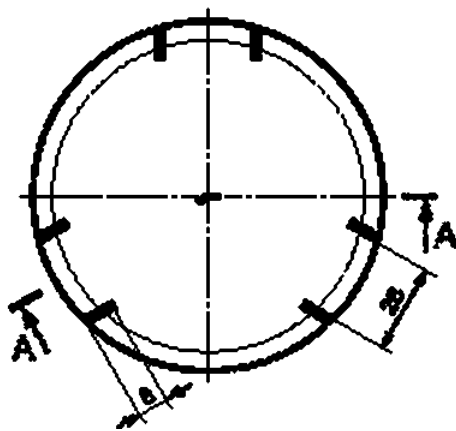
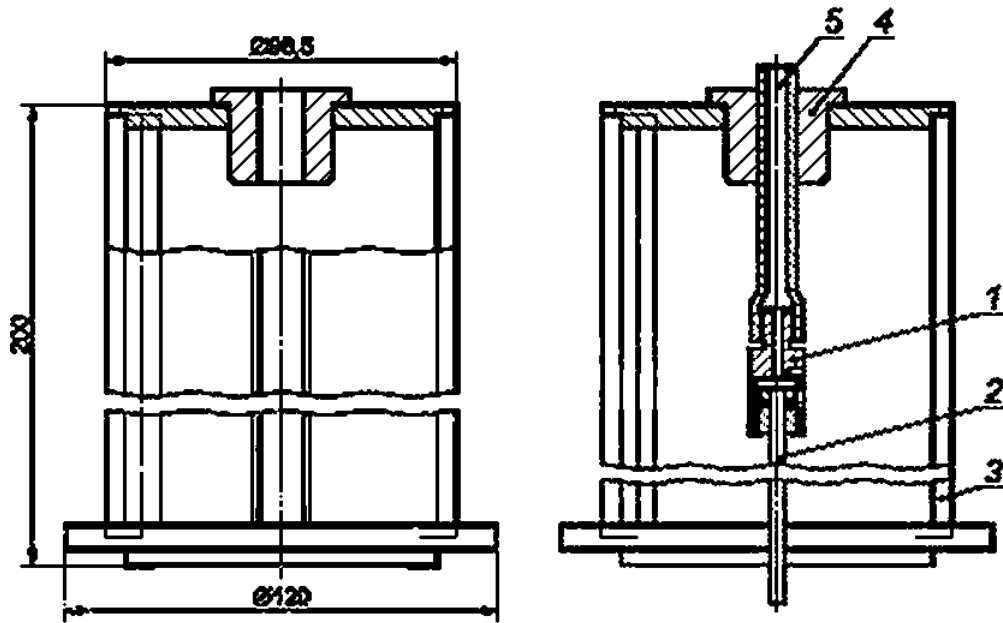
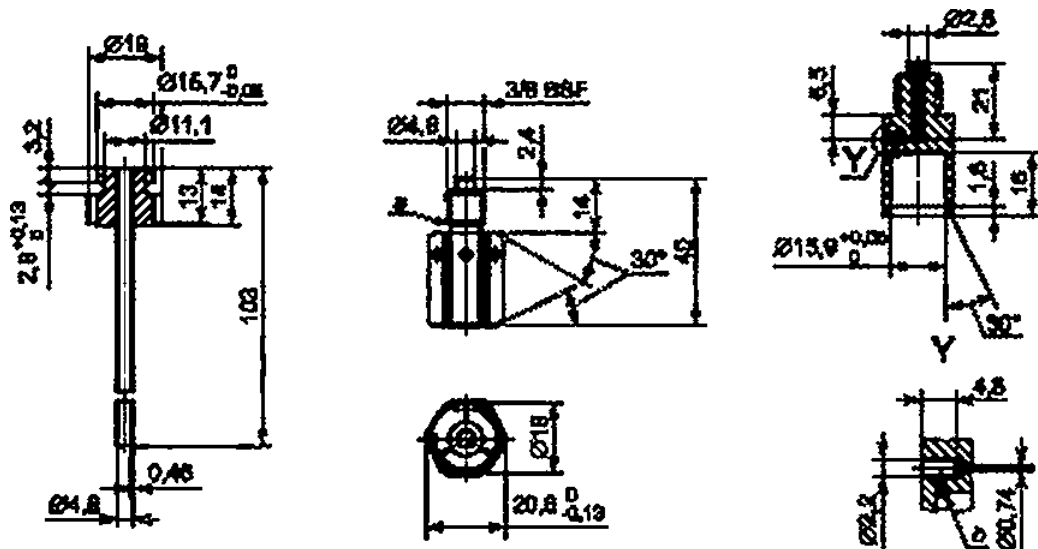
3/

c)

d)

500 :

3



.?— .3— (« »); \*— ;5—

12.4.294—2015

a) « » 100

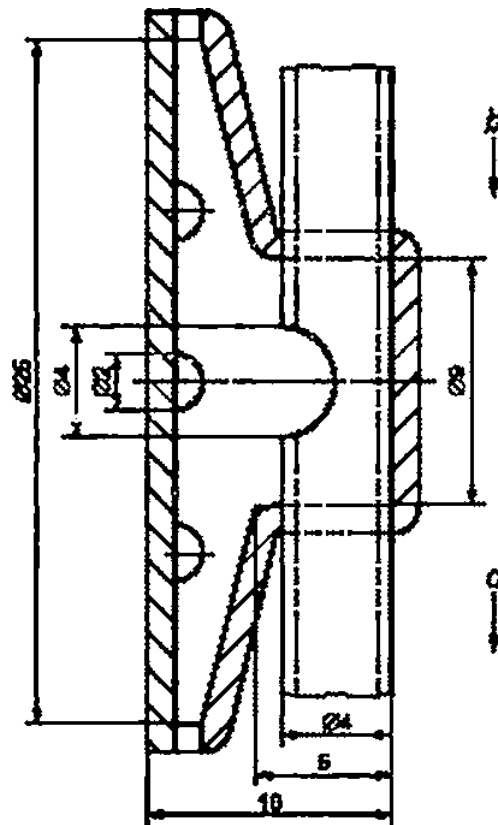
b) 5

c) —

d) :

\*

4



( ), — , —

4—

1 3/



NaCl  
NaCl

8.5.2.3

100

, %, ,

2 —  
, —  
/ —  
\* —

, / 3;

100  
100

. / 3;  
, ;  
, .

8.6

2

(8.3.2).

3,

(2).

(40 ±4)

(20±2)

(20 ± 2)

(800±50) \* .

( ,0±0.5) / .

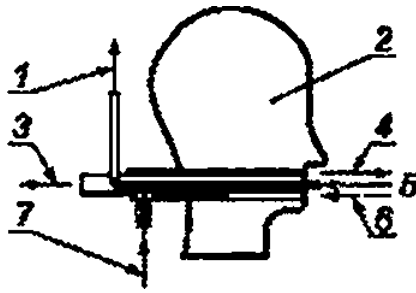
( ) . ..

8.7

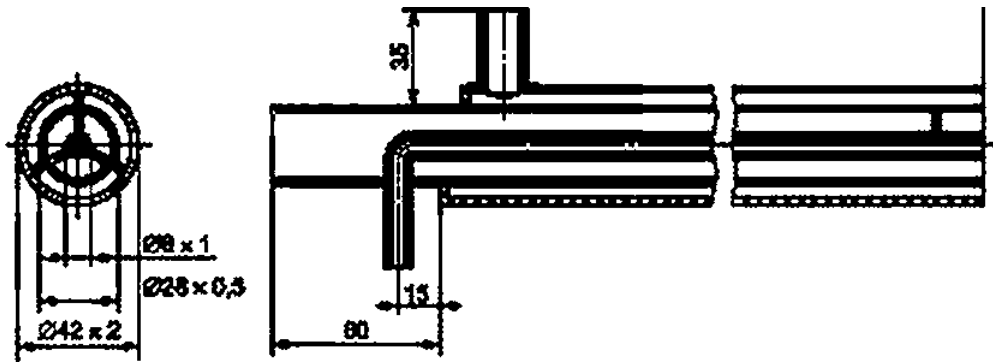
O<sub>2</sub>.

O<sub>2</sub>

( 5).



215



	V	
	----- € >	-S
	///	1
1 10 i		
1		
16		
16J6		

}-

:S-

.2-

.3-

;7-

;4-

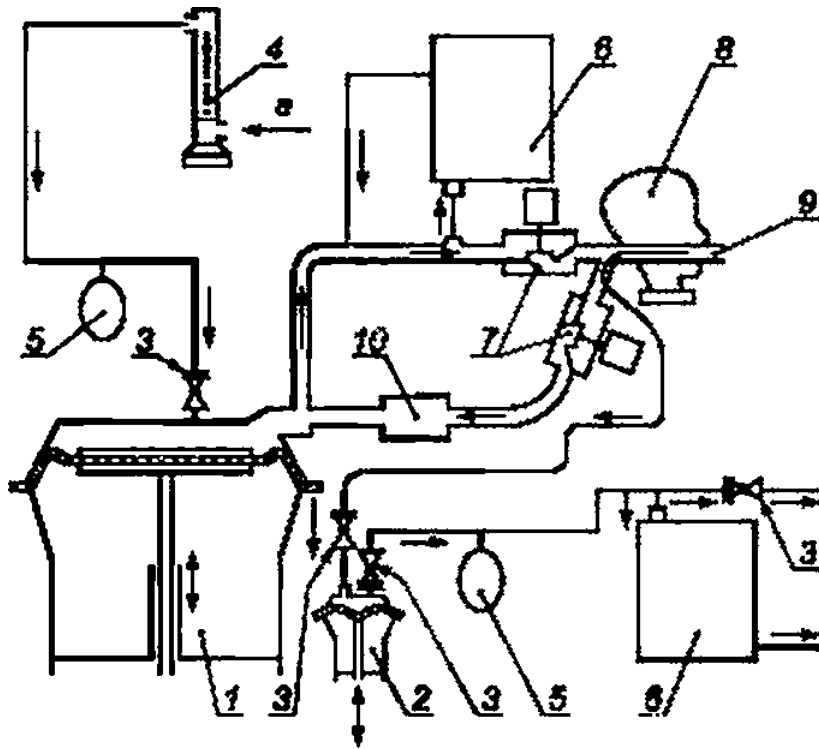
S-

25

/ 5%

0.2

/



— : 1— . 2— « »: 3— , 4— -  
 . 5— ; — ; 7— : 8— ; 9— -  
 ( . 4); —

6—

O<sub>2</sub>

O<sub>2</sub>

O<sub>2</sub>

O<sub>2</sub>

O<sub>2</sub>

5 %

O<sub>2</sub>.

«

»

2

3.

(

»

)

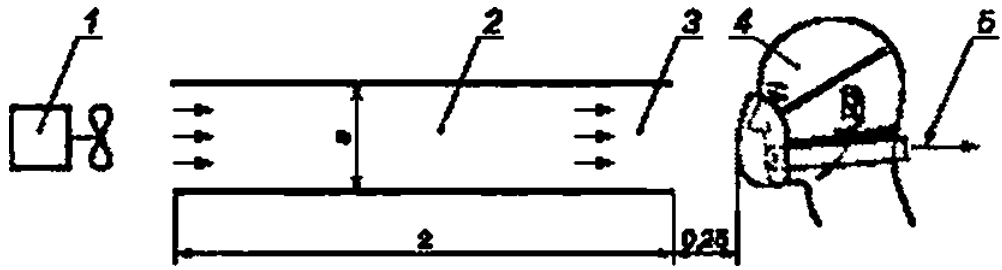
0,1 %.

95 %.

— (37 ± 2) ° .

0,5 / .

7.



J— : 2— . 3— : 4— . 5—

: — 0.3— 0.5

7—

8.8

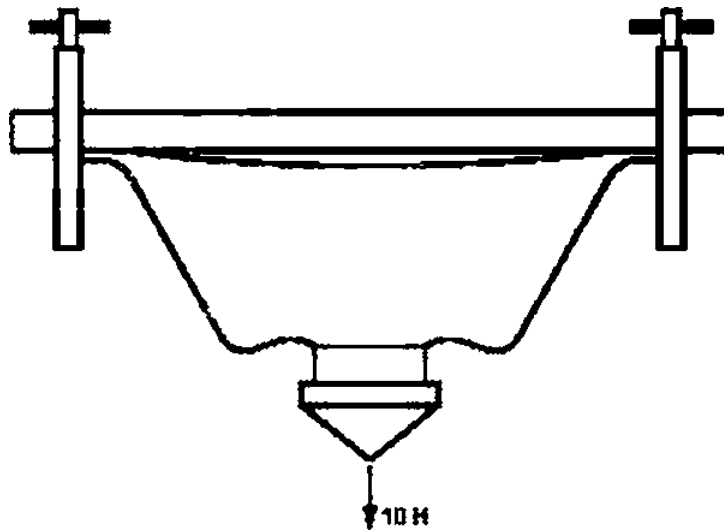
(8.3.2)

12.4.246.

8.

10

10 .



8—

8.9

8.9.1

8.9.1.1

(8.3.2)

(8.3.1).

8.9.1.2

12

(8.3.2).

(8.3.1)

8.3.4.

23 \*

1

8.9.2

5,

160 /

25 / 2,0 3/

- 
- 
- 
- 
- 

8.9.3

30

95 3/

8.10  
8.10.1

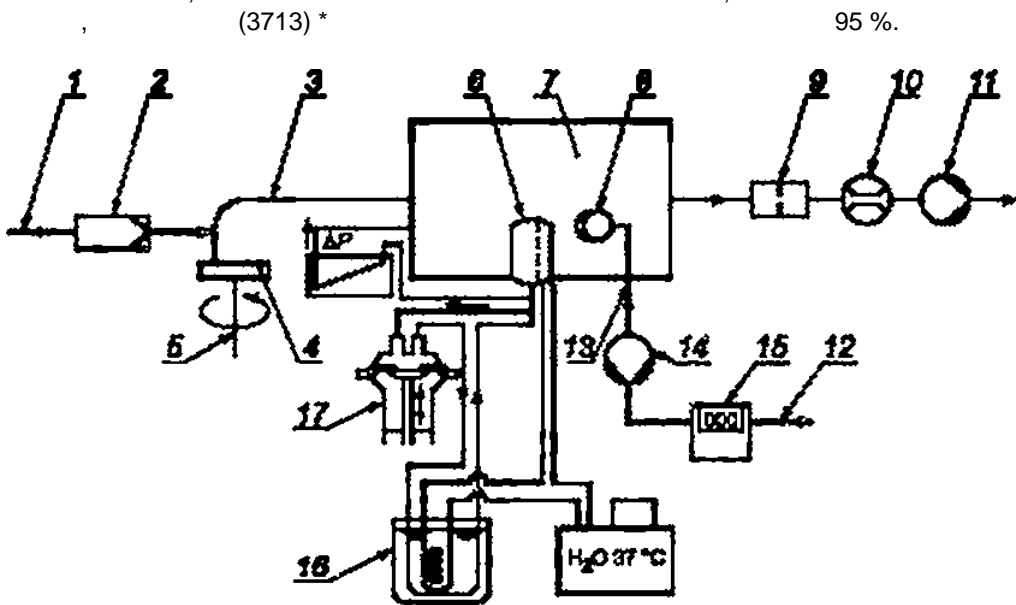
(8.3.2).

8.10.2

9.

650x650

2 3/



— ; 2— . 3— . 4— ; S— . 6—  
 , 7— , 8— . 9— , 10— : 11— : 12—  
 13— , 14— : — ; 1?— , —

9—

12.4.294—2015

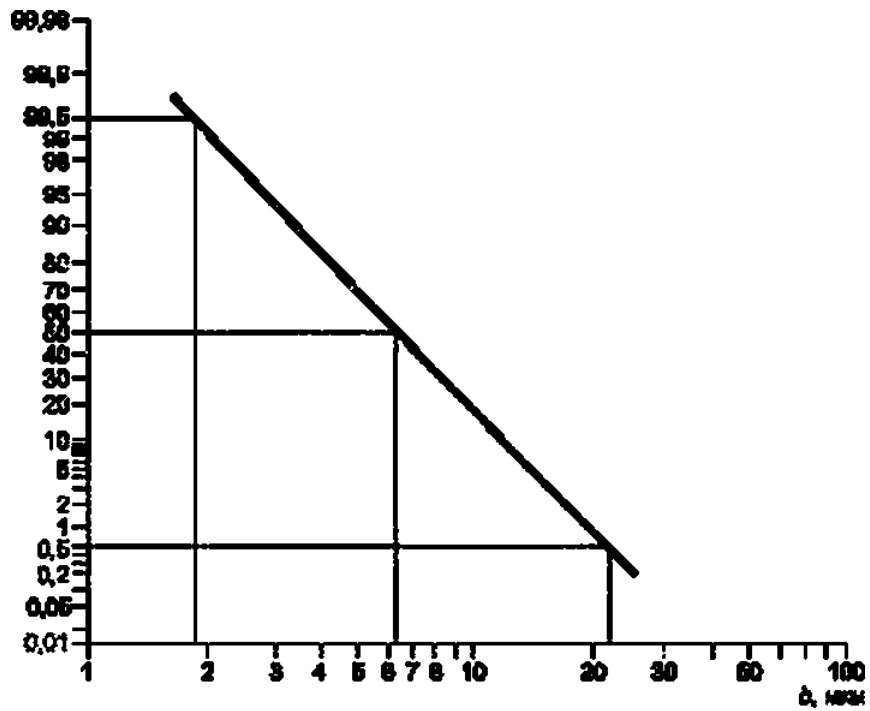
8.10.3

4.

4—

( )	.%	( )	.%
0.7	100	1	99.5
1		2	97.5
2	30	3	95
3	17	5	85
5	7	8	70
9	2	10	50
12	1	12	26
		14	10
		16	1

10.



{ ; — },

10—

4 / .

60 3/

15 / 2 / .

— (400 ± 100) / 3.  
— (23 ± 2) .  
— (45115)%.

1)

400

833 / 3 :  
95 3/ )  
FFP1. 500 — FFP2. 700 — FFP3 300  
160 3/ );  
180 (

2)

FFP3.

300 — FFP1.400 — FFP2 500 —  
— / 3

125

1.5

400 / 3

8.10.4

60 3/ .

2 /

(

9.

— 37 ),

8.10.5

8.11.

8.11

8.11.1

8.11.2

7 EN 13274\*7

5

:

•

•

)

. 120 ;

, 120

12.4.294—2015

b)

8.11.3

32

8.11.2  
(50 ±30)%.

(24 ±1)

16<sup>9</sup>

8.11.4

(30 ±3)

3

8.1.2

8.11.5

13274-7

3

(30 ± 3)

9

9.1

:

•

;

-

NR —

FFP1. FFP2. FFP3 ( — ):

FFP3 NR;

R —

FFP2 R;

•

•

11 . yyyy/mm

• : «

» ( ) ( )

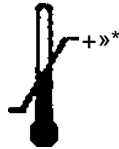
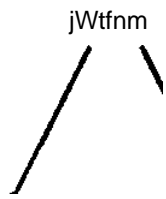
11 11 d:

- D

— FFP2 R D:

8.3.1.8.3.2.





d—

11—

9.2

• ;  
 • ;  
 • ;  
 • ;

FFP1, FFP2. FFP3 ( — ). NR—

FFP3 NR.  
R —

FFP R;

•

—FFP3 NR D, FFP2 R ;

12.4.294—2015

•

8.3.1. 8.3.2.

10

10.1

10.2

( ) ( )

10.3

( );

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( ; , , );

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10.4

.8

10.5

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•

-

10.6

10.7

NR.

11

( )

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.1.

.1—

/			
( )	-		1
/	*		1
<p>— :</p> <p>—</p> <p>1 —</p> <p>,</p> <p>,</p> <p>,</p> <p>:</p> <p>.</p>			

12.4.294—2015

[1] EN 132:1998 Respiratory protective devices. Definitions of terms and programs ( )

[2] EN 12374-4:2001 Respiratory protective devices — Methods of test — Part 4: Flame tests ( - )

614.894.3:006.354

13.340.30

MOD

09.12.2015. 08.02.2016. 60.84^  
. new. . 3.28. .- . . 2.75 45 aw. . 255.

« , 123995 , ., 4.  
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