

**19040-81**



2010

19040-81

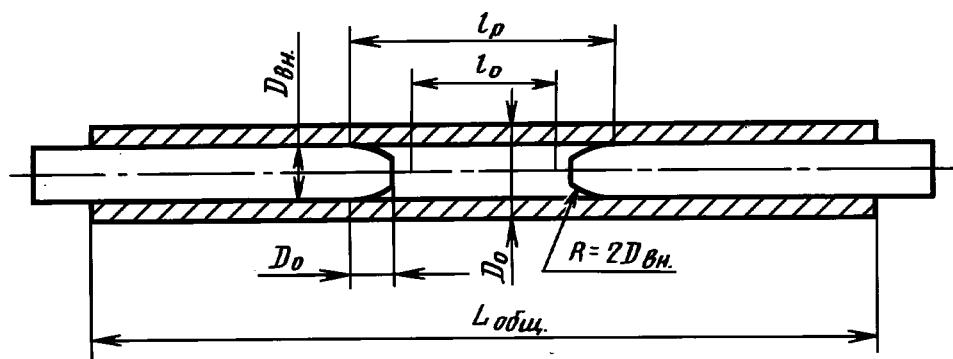
## Metal tubes. Method of tension tests at high temperatures

23.040.10  
1709

01.07.83

1.1.

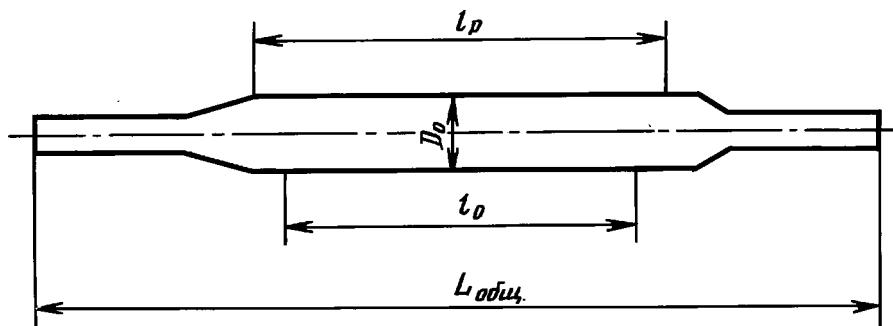
1.1.1



Черт. 1

©

, 1981  
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.2

1.1.2.

12,0 ,

( )

,

.1.

1

| <i>o</i> | <i>o</i>    | <i>o</i>     |
|----------|-------------|--------------|
| 8,0      | 16,0 20,0 . | 3,0 .        |
| 10,0     | .20,0       | « 10,0 « .   |
| 12,0     | » 20,0      | .10,0 12,0 . |

1.1.3.

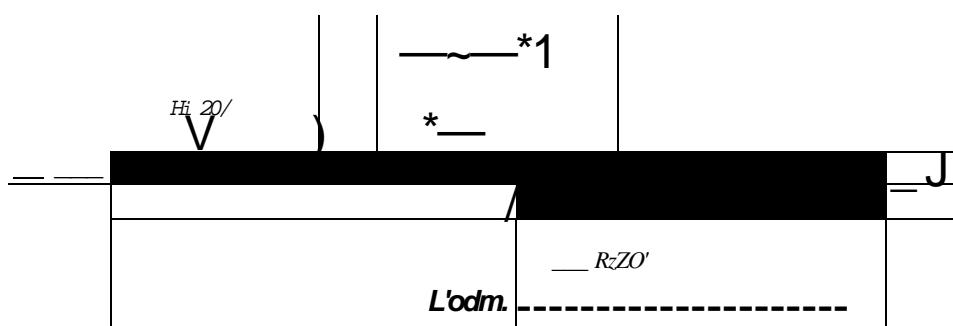
( . 6).

( . 3)

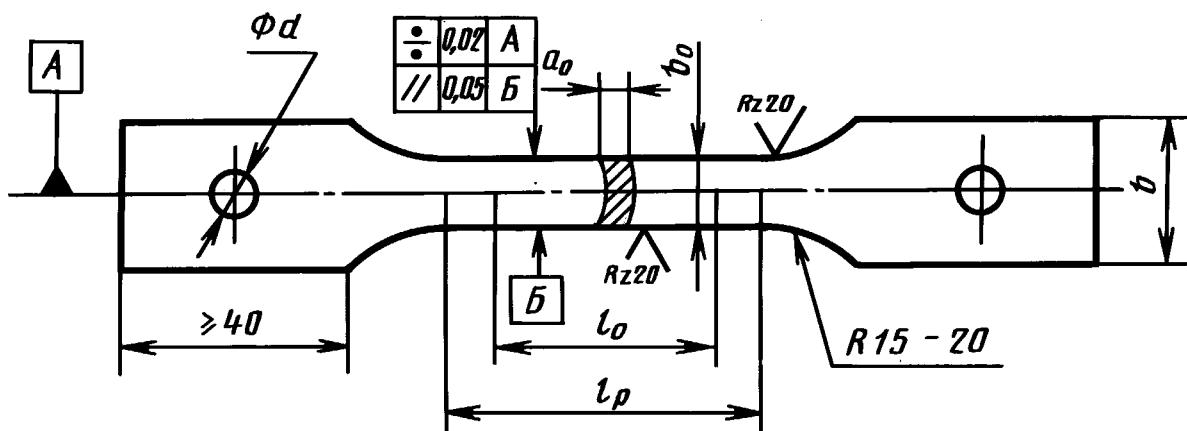
( . 4 5).

8,0

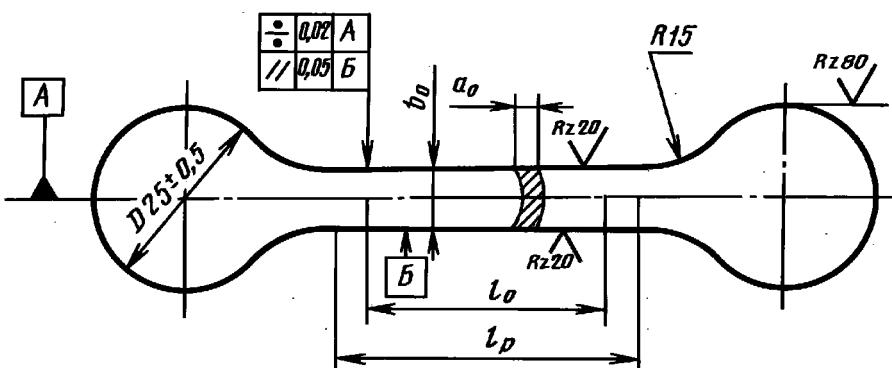
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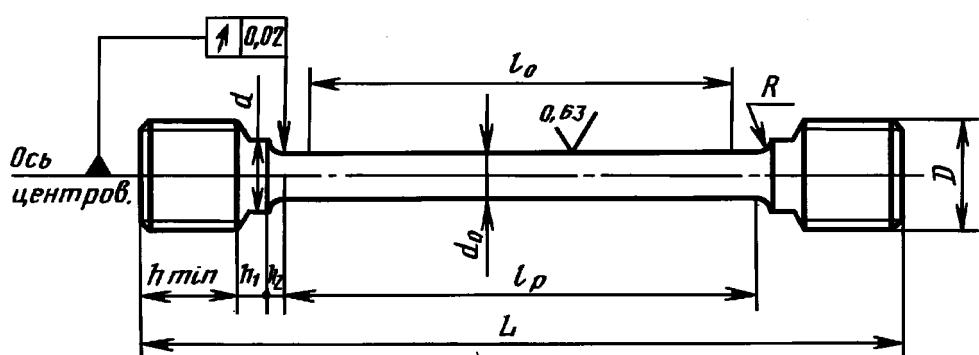
.3



.4



.5



.6

| $d_0$ | $d$  | $D$ | $h_{\min}$ |   | $h_2$ | $R$ | $k$ | $\rho$ | $L$ |    |
|-------|------|-----|------------|---|-------|-----|-----|--------|-----|----|
| 10,0  | 12,0 | 16  | 15         | 5 | 5     | 5   | 50  | 60     | 110 | 1  |
| 8,0   | 10,0 | 12  | 15         | 5 | 5     | 5   | 40  | 48     | 98  | 2k |
| 5,0   | 7,0  | 10  | 14         | 4 | 5     | 5   | 25  | 30     | 76  | 3k |
| 3,0   | 3,6  | M5  | 8          | 3 | 1,5   | 3   | 15  | 18     | 4,3 | 4k |

5.0 — 7,0 12,0 ;  
 8.0 — 12,0 16,0 ;  
 10.0 — 16,0 .  
 9651.

1. 5,0 7,0 .  
2. 3,0

(1.1.4., . . . 1).

1497.  
( , . 1).  
12.

13

1.4. (1) — 9651.

20 ,  $I_0$  20 . 1%  
1.5.

$$1.6. \quad , \quad 5; \quad - \quad - \quad , \quad 10.$$

(1)

:

$$- /_0 + 22)_0;$$

$$- \quad \quad \quad 3,0 \quad \quad \quad /_0 + 1,5 \quad \quad \quad ; \quad /_0 + 2 / \quad ; \\ - \quad \quad \quad — \quad /_0 + 1,5d_0 \quad /_0 + 2d_0.$$

, . 1, 2 3, ( )

)  $\wedge 1 + 80 -$   
     (                          ,  
     1.7                         1).

|  |                           |                                  |                              |
|--|---------------------------|----------------------------------|------------------------------|
|  |                           |                                  |                              |
|  | 3,0<br>5,0<br>8,0<br>10,0 | ±0,10<br>±0,10<br>±0,10<br>±0,10 | 0,03<br>0,03<br>0,03<br>0,03 |
|  | 8,0<br>10,0<br>12,0       | ±0,20<br>±0,20<br>±0,20          | 0,05<br>0,05<br>0,10         |

1.8.

1.9.

1.10.

, , . 3.

|   |                      |                   |                                     |                      |                     |
|---|----------------------|-------------------|-------------------------------------|----------------------|---------------------|
|   | ,                    |                   |                                     | ,                    |                     |
| 120 160<br>« 160 « 250 «<br>« 250 « 290 « | 14,0<br>20,0<br>17,0 | 3,0<br>5,0<br>5,0 | 220 290 «<br>« 290 « 320 «<br>« 320 | 32,0<br>26,0<br>24,0 | 8,0<br>10,0<br>10,0 |

3

1.11. 426 9651

1.12.

1.13.

Ra 0,63 , Rz — 20

2789.

1.14.

10006,

— 9651.

1.15. ( , . 1).

1.16.

2.

2.1. —  
10006.  
2.2., . 3,5,  
2.3. ( ) 9651.  
( , . 1).

## 3.

3.1.

10006.

900 °

( .5)

1.

3.2.

-  $I_0 < 100$  —

(

).

50

;

-  $I_0 > 100$  —

(

).

3.3.

( )

3.4.

. 3.5.

1 ,

—20—30

3.5.

 $\pm 5^\circ$  —

600 ° ;

 $\pm 7^\circ$  «

« 600 900 ° ;

 $\pm 8^\circ$  «

« 900 « 1200 ° .

3.6.

2° .

3.7.

3.3—3.7. (

1).

**4.**

4.1.

10006

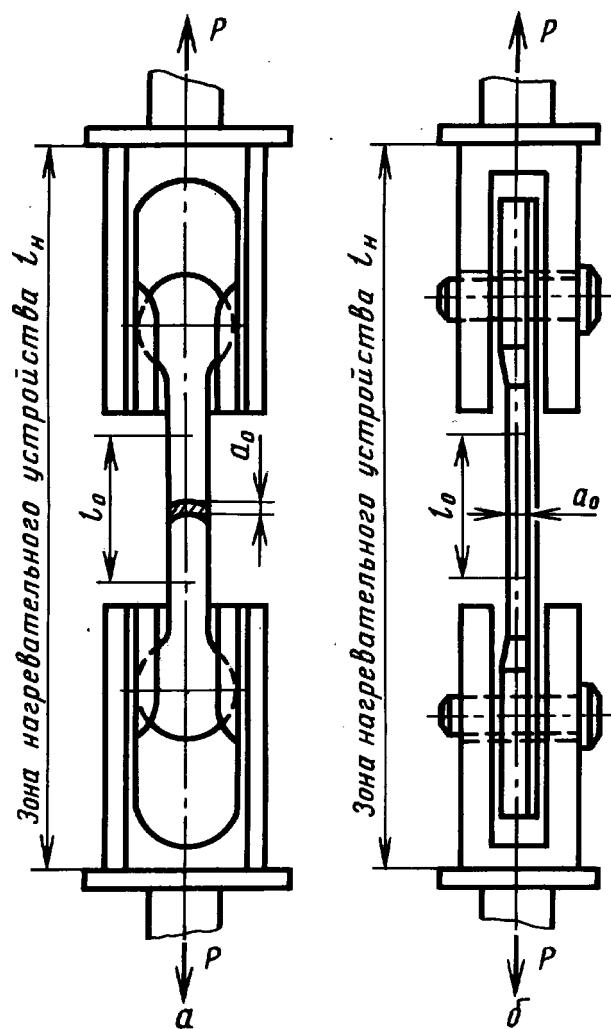
9651.

4.2.

: ,2/45( /450> °5/450' V450 —  
0,2 %,

 $I_0 = 5,65$  $450^\circ$ 

( , . . 1).



\* 2.( , . 1).

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1.

2.

15.06.81    2941

3.

19040-73

4.

|   |   |
|---|---|
| ,   | ,   |
| 1497-84<br>2789-73<br>9651-84<br>10006-80 | 1.1.4<br>1.13<br>, 1.11, 1.14, 2.2, 4.1<br>, 1.14, 2.1, 3.1,<br>4.1 |

5.

(    2—93)

,

6.

(    2010 .)

1,

1987 .(    1—88)