



**15548-2—
2025**

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(ISO 15548-2:2013, IDT)

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2 322 « »

3 25 2025 . 1811-

4 15548-2:2013 « -
2.

» (ISO 15548-2:2013 «Non-destructive testing — Equipment for eddy current examination — Par 2: Probe characteristics and verification», IDT).

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(www.rst.gov.ru)

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4.1	2	
4.2	3	
4.3	3	
5	3	
5.1	3	
5.2	3	
5.3	4	
5.4	4	
6	5	
6.1	5	
6.2	6	
6.3	21	
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Non-destructive testing.
Equipment for eddy current examination.
Part 2. Probe characteristics and verification

— 2026—04—01

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ISO 12718, Non-destructive testing — Eddy current testing — Vocabulary ()]:

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12718.
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6.1

6.1.1

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6.1.2—6.1.5,

6.1.2

6.1.3

6.1.3.1

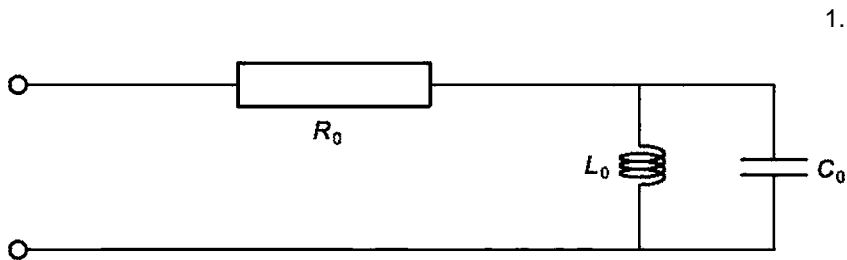
f_{res}

6.1.3.2

6.1.4

R_0

(1)



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6.1.5

6.2

6.2.1

() () () ,

() () .

6.2.2

6.2.2.1

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6.2.2.2 6.2.2.3.

6.2.2.2

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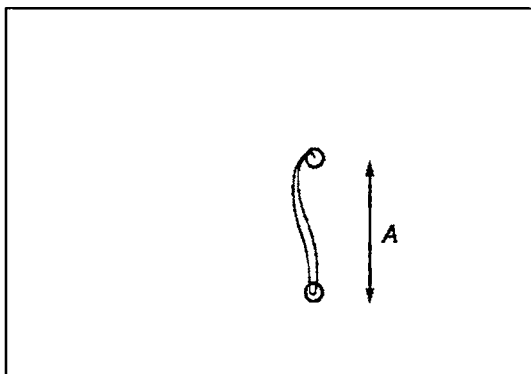
() , (2) .

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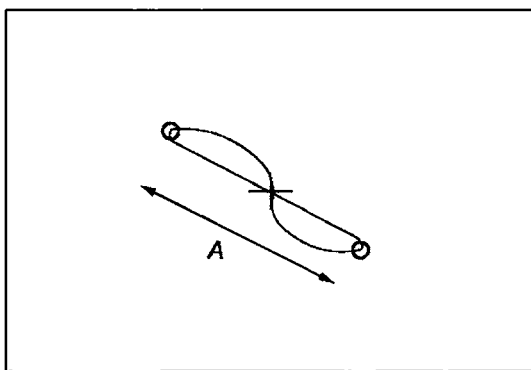
2) .

)

() .



a) Измерение амплитуды для абсолютного сигнала



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2—

6.2.2.3

360°, 0° 360° 0° ±180°.

- 360 — 0° 360°;
-);
- N360 — 0° 360°;
- 180 — 0° 180°;
- N180 — 0° 180°;

6.2.2.2.

6.2.3 ()

().

6.2.3.1

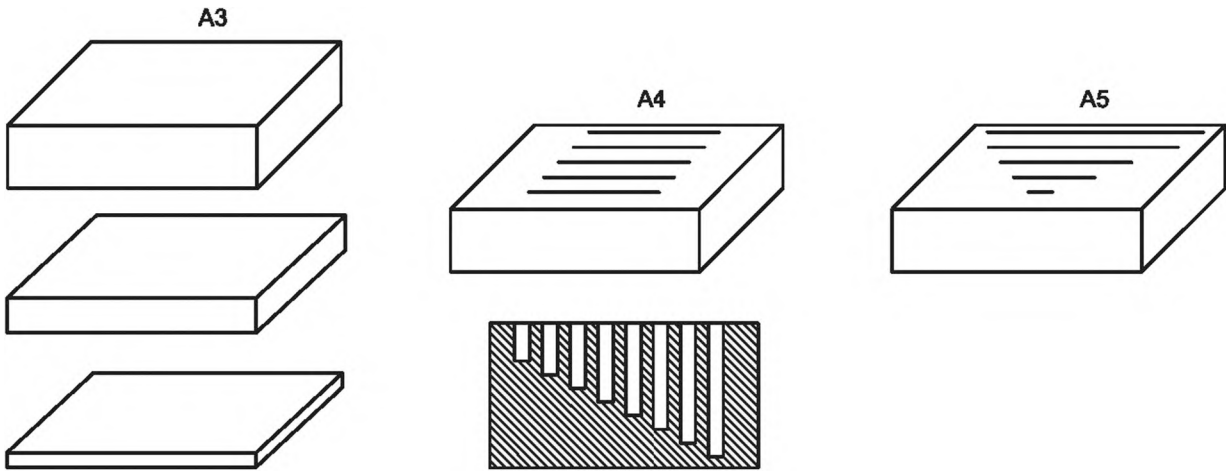
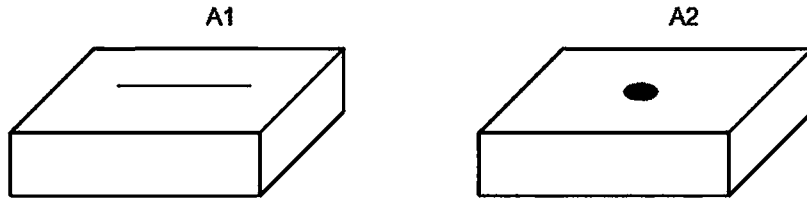
(1— 5)

3.

10

()

6.2.3.8.



3—

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(. 6.2.3.16).

6.2.3.2

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1.

(. 4).

(,) ,
(,) .

(, 25 %).

S_{ref}

S_{ref}

min(S_{max}) — S_{max} ().

6.2.3.4

[max(S_{max})-min(S_{max})]
max(S_{max}) ' 1}

6.2.3.5

)

)

—)

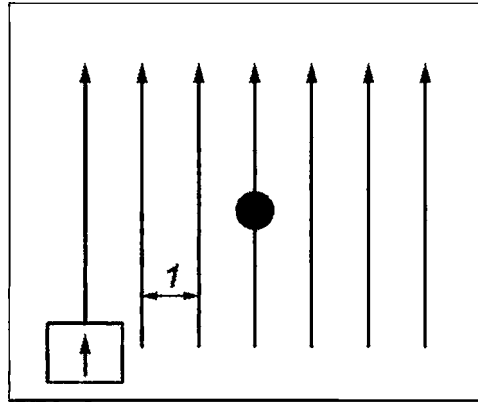
6.2.3.6

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(. 6).

20 %



1 — шаг

6 —

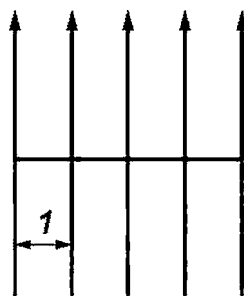
$$S_{\max}/S_{\text{ref}}$$

6

6.2.3.7

10 %

(. . . 7).



1 —

7 —

$$S_{\max}/S_{\text{ref}}$$

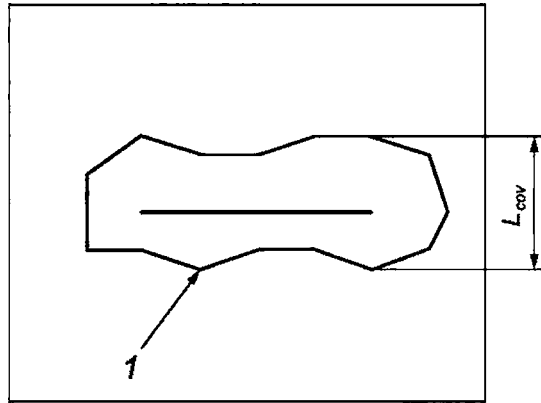
6

Δ_{max}^{ref}

6.2.3.8

L_{cov}

6.2.3.7
8).



1 — линия 6 дБ

8 —

6.2.3.9

6.2.3.7,

(. 9).

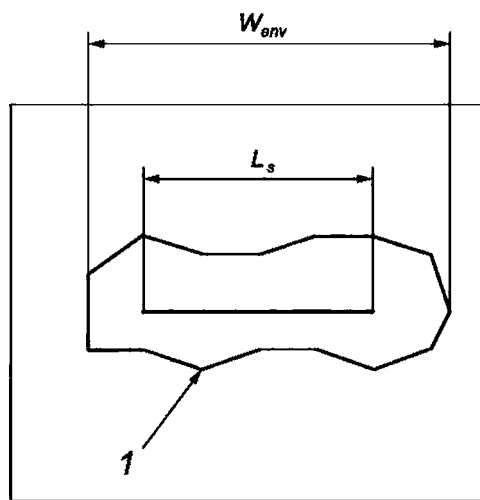
W_{enu}

VV_{cov}

$IV_{cov} - L_v erw 's'$

(5)

L_s —



1 — 6

9 —

6.2.3.10

:

5.

$$\frac{l_{\min}}{l_{\min}} = \frac{(S_z - S_h^{\wedge})/S_{ref} < 0,1}{(S_z - S_h^{\wedge})/S_{ref} < 0,1}$$

6.2.3.11

:

4.

$$\frac{d_{\min}}{d_{\min}} = \frac{(S_z - S_h^y)/S_{ref} < 0,1}{(S_z - S_h^y)/S_{ref} < 0,1}$$

6.2.3.12

:

1.

(. 6.2.3.2)

z = 0.

$$\frac{S(z)/S_{ref}}{S(z)/S_{ref}} = \frac{S(z)}{S(z)}$$

6.2.3.13

:

1.

6.2.3.2.

z.

$$S_{max}(z)/S_{ref}$$

6.2.3.14

:

S_0 — ,
 $S(t)$
 $[S(t) - S_0]/S_0 < 0,1,$
 6.2.3.15

$$t = S(t) \cdot P_{eff} \cdot t, \quad ()$$

6.2.3.2,
 1.

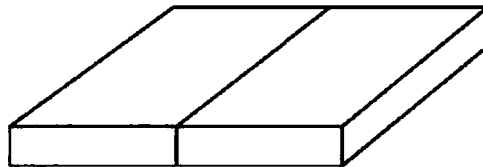
$$D_{eff} \cdot t, \quad S_{max}(0) \cdot t, \quad S_{max}(t)/S_{max}(0) < 0,1,$$

$$S_{max}(f), \quad S_{max}(0)$$

6.2.3.16

1 — 5.

(. .1).



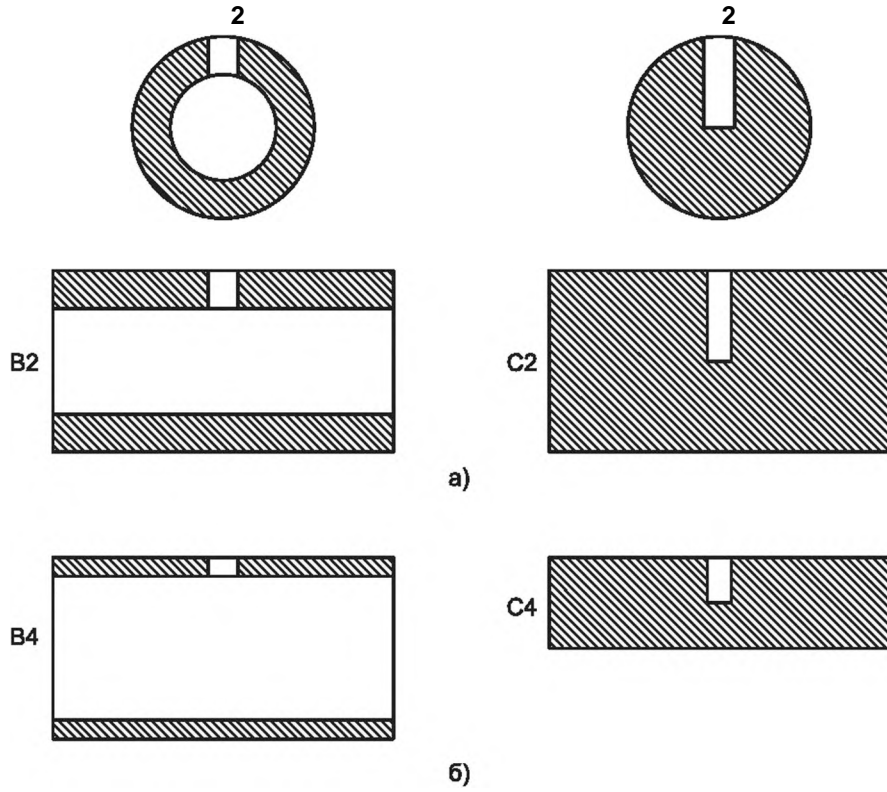
10 —

6.2.3.2.

S_{trans}

G_{low}

S_{trans} blow



12— 2, 2 4, 4

(), 13. 1 (1), -

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50 % 100 % ; 6.2.4.5, -

6.2.4.12. (6.2.4.8). -

2,5 ()



13—

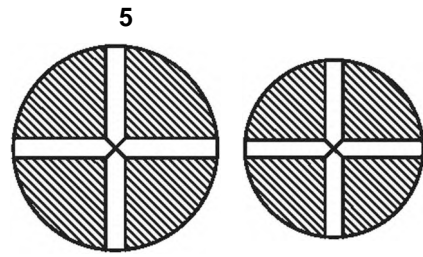
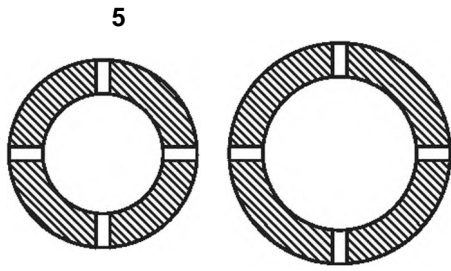
4 (4), 12).

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5 (5), 14. , 1, -

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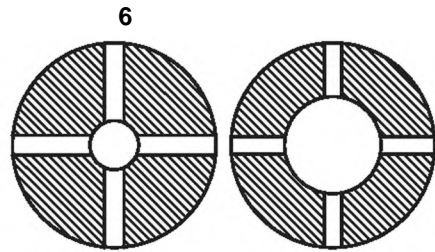
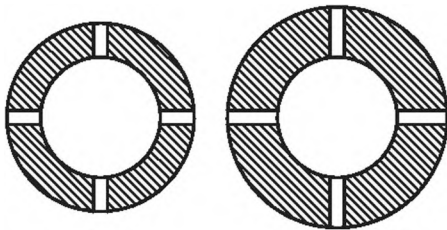


14 —

5 5

(— , 6),
1,
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15.



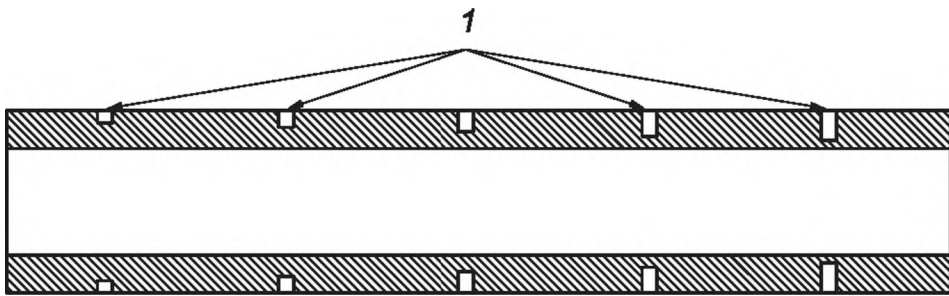
15 —

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7, 17.
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1.

(6.2.4.8.).



1 — 360°

16 — 7

6.2.4.3

1).

1 (

L/4.

(, 25 %).

S_{ref}

()

S_{ref}

6.2.4.4

1).

3L/4.

L/4.

6.2.4.5

1).

L/4,

S :

(6)

6.2.4.6

2).

0° 360°

()

$S_{max}(a)/S_{ref}$

$$[\max(S) - \min(S_{min}(a))]/\max(S) \cdot 100 = d \%$$

6.2.4.7

1).

$$S/S_{ref}B$$

6.2.4.8

— 6

6.2.4.7.

6.2.4.9

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$$S_j = S_{jmax} I S_{ref}$$

— I_j

6.2.4.3,

$$\hat{\wedge} < 0,1.$$

6.2.4.10

4).

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4 ()

L/4.

$$S_0(E)/S_{ref}$$

$S_0(E)$.

()

()

$S_{max}(E)$.

6.2.4.11

\$ () /

5).

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5 ()

L/4.

$S_0(D)$,

D —

$$S_0(D)/S_{ref}$$

()

b)

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$\hat{\wedge}$ $\hat{\wedge}$ '

6.2.4.12

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$$S_{max}(D)/S_{ref}$$

D .

6).

S_0 —
6)

t

$S(t)$.

$S(t)$

t

()

$$P_{eff} = \dots t,$$

$$\frac{|S_0 - S(O)|}{S} < 10\%$$

() .

6.2.4.13

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7.

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S^{\wedge}
 $S_j/S_j < 10\%$

6.3

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/4.

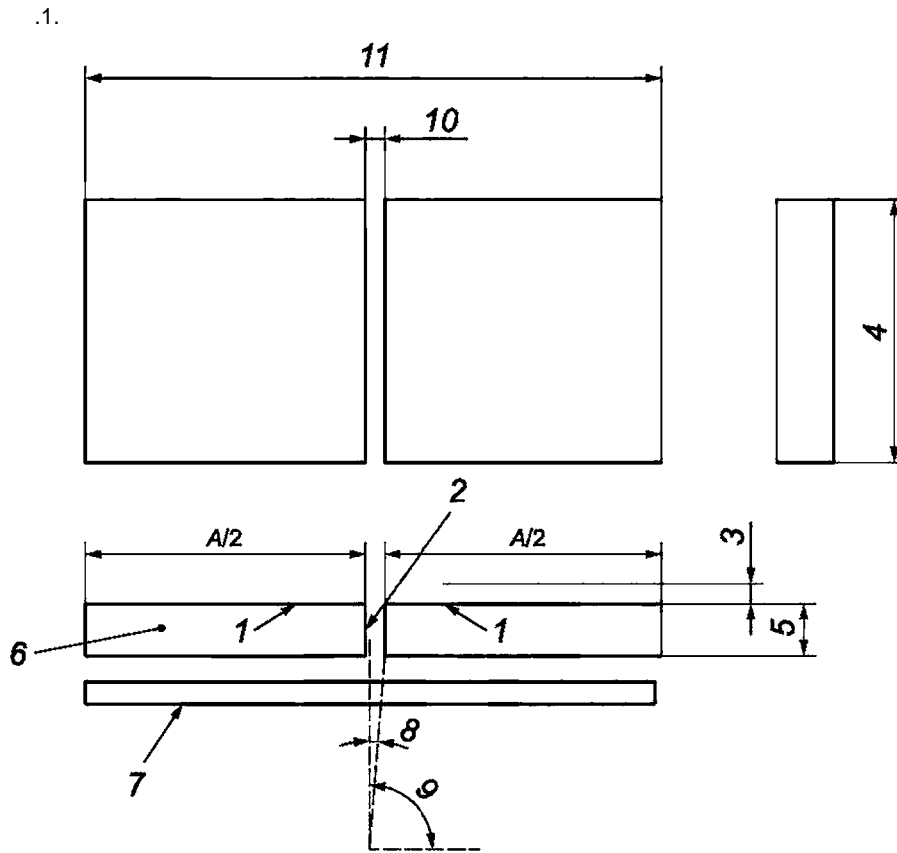
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6.1 6.2.

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1— ; 2— ; 3— ; 4— ; 5— F
 ; 6— G ; 7— ; 8— ; 9— ; 10— D; 11—

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 .1—

				D		F	G	\wedge_{Aust}	
	>40 >100	> /2	>38 >5	0,1	0	0°	90°	1,5 /	30 /
-	±1	±1	±0,5	±0,05	<0,1	<0,1	±5°	±0,5 /	±10 /
= 5 (,); = 5 (,); = 15 (, 18/8). 8 = ° Aust— 1— 1.									

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0.8
1,6
CLA (N7),
CLA (N6).
0,8
CLA (N6).

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ISO 12718	IDT	12718—2009 « »
— : - IDT —		

[1] ISO 15549 Non-destructive testing — Eddy current testing — General principles ()

[2] ISO 15548-1 Non-destructive testing — Equipment for eddy current examination — Part 1: Instrument characteristics and verification (1.)

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