

17658-2022

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(ISO 17658:2002, IDT)

2022

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3 30 2022 . 551-

4 17658:2002 «
» (ISO 17658:2002 «Welding — Imperfections in
oxyfuel flame cuts, laser beam cuts and plasma cuts — Terminology», IDT).
ISO/TC 44 «
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Welding. Imperfections in oxyfuel flame cuts, laser beam cuts and plasma cuts. Terminology

— 2022—09—01

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2

ISO 9013:—1), Thermal cutting — Classification of thermal cuts — Geometrical product specification and quality tolerances (

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4.1 — ;
 4.2 —
 4.3 — ;
 4.4 — ;
 4.5 — .

4

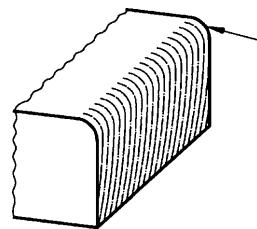
4.1 (imperfections on cut edges):

¹⁾ (9013:1992).

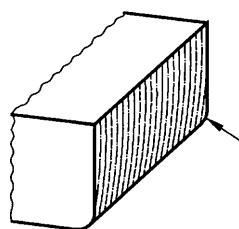
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4.1.1

(melting of cut edge):



1 —

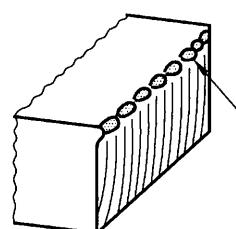


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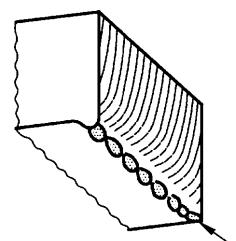
4.1.2

(string of solidified droplets):

ших на верхнюю или нижнюю кромку реза.



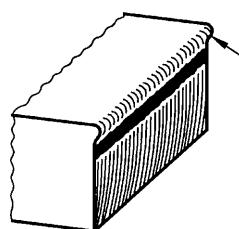
3 —



4 —

4.1.3

(cut edge overhang):

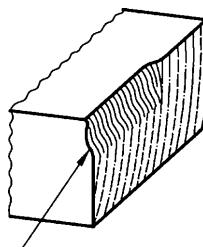


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4.1.4

(molten down top cut edge):



6 —

4.2

(imperfections on cut faces):

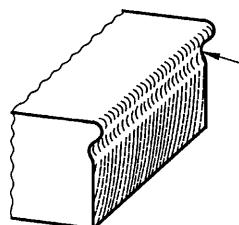
4.2.1

(geometrical deviations):

9013.

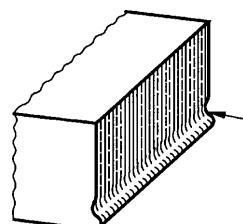
4.2.1.1

(concave cut face at the edges):



7 —

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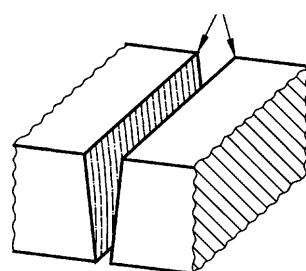


8 —

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4.2.1.2

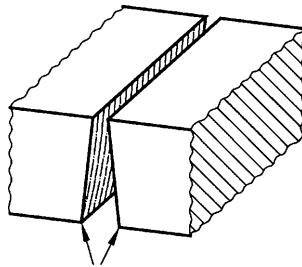
(widening of kerf):



9 —

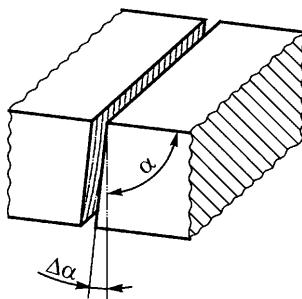
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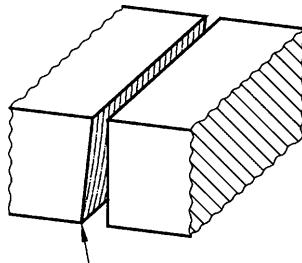


10 — ()

4.2.1.3 (cut angle deviation):

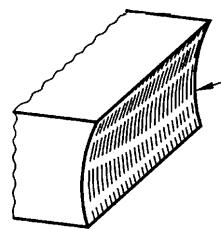


11 —



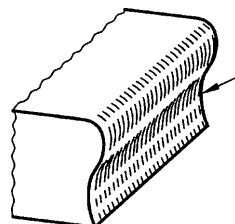
12 —

4.2.1.4 (concave cut face):



13 —

4.2.1.5 (irregular cut face profile):



14 —

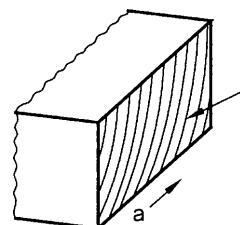
4.2.2

(deviation of drag line):

9013.

4.2.2.1

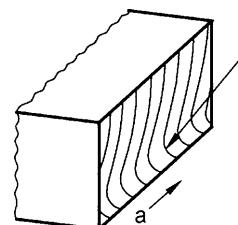
(excessive back run of drag line):



15 —

4.2.2.2

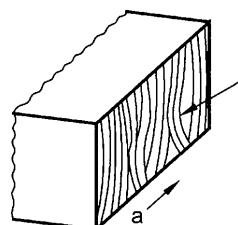
(lead of drag line):



16 —

4.2.2.3

(local deviation of drag line):



17 —

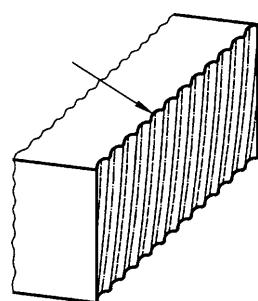
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4.2.2.4

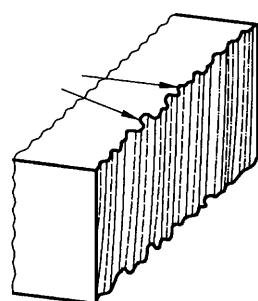
(excessive drag line depth):

4.2.2.5

(irregular drag line depth):



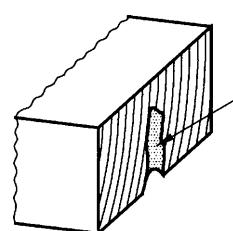
18 —



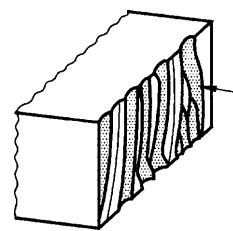
19 —

4.2.3

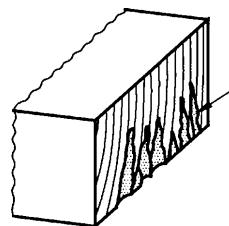
(gouging):



20 —



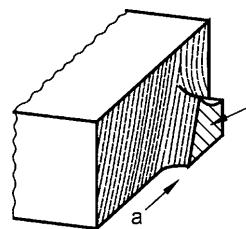
21 —



22 —

4.2.4

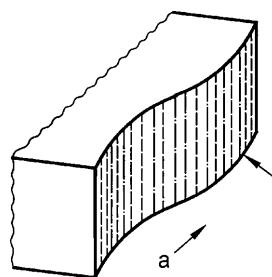
(incomplete end of cut):



23 —

4.2.5

(non-planar cut face):



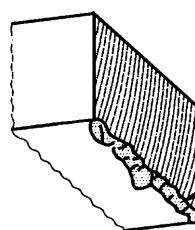
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24 —

4.3

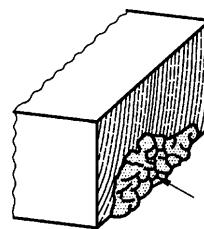
(adherent slag):

(10),



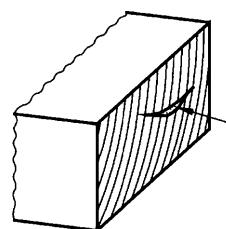
25 —

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26 —

4.4 (crack): ,

4.4.1 (microcrack): ,
4.4.2 (macrocrack): ,

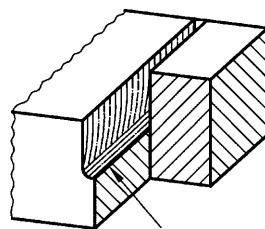
27 —

4.5 (other imperfections): , 4.1—4.4.

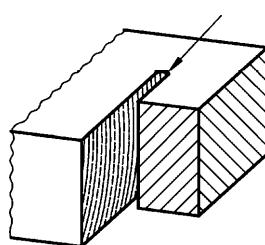
4.5.1 (deviation at start of cut):
4.5.2 (piercing deviation): /

4.5.3 (excessively wide kerf): ,

4.5.4 [] (lost (incomplete) cut): ,



28 —



29 —

4.5.5 (burning of surface): ,

4.5.6 (dimensional deviation): ,

9013.

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	17658	,	
4.3	(slag)	(dross)	(top dross), (bottom dross), (top edge dross), (bottom edge dross)
4.2.2	(drag line)	(striation)	—
4.2.2.1	(back run)	(lag)	—
4.2.4	(incomplete end of cut)	(bridging)	—

adherent slag 4.3

L

lead of drag line 4.2.2.2
local deviation of drag line 4.2.2.3
lost (incomplete) cut 4.5.4

burning of surface 4.5.5

M

macrocrack 4.4.2
melting of cut edge 4.1.1
melted down top cut edge 4.1.4
microcrack 4.4.1

concave cut face 4.2.1.4

concave cut face at the edges 4.2.1.1

crack 4.4

cut angle deviation 4.2.1.3

cut edge overhang 4.1.3

non-planar cut face 4.2.5

D

deviation at start of cut 4.5.1

deviation of drag line 4.2.2

dimensional deviation 4.5.6

other imperfections 4.5

E

excessive back run of drag line 4.2.2.1

excessive drag line depth 4.2.2.4

excessively wide kerf 4.5.3

piercing deviation 4.5.2

G

geometrical deviations 4.2.1

gouging 4.2.3

S

string of solidified droplets 4.1.2

I

imperfections on cut edges 4.1

imperfections on cut faces 4.2

incomplete end of cut 4.2.4

irregular cut face profile 4.2.1.5

irregular drag line depth 4.2.2.5

W

widening of kerf 4.2.1.2

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	4.2.1.4
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	4.2.3
	4.2.2.5
	4.2.2.4
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4.2.1.2	
4.2.4; 4.5.4	
4.5.4	
4.4	
4.1.2	
4.3	

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621.791:006.354

25.160.10

01.040.25

01.07.2022. 14.07.2022. 60x84%.
1,86. 1,58.

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