



SLOVENSKI STANDARD

SIST EN 1301-3:1998

01-april-1998

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Aluminium and aluminium alloys - Drawn wire - Part 3: Tolerances on dimensions

Aluminium und Aluminiumlegierungen - Gezogene Drahte - Teil 3: Grenzabmae

Aluminium et alliages d'aluminium - Fil tire - Partie 3: Tolerances sur dimensions

Ta slovenski standard je istoveten z: EN 1301-3:1997

[SIST EN 1301-3:1998](https://standards.iteh.ai/catalog/standards/sist/d3607d57-c238-4a27-9a91-67ff5fbd577a/sist-en-1301-3-1998)

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ICS:

77.150.10 Alumijski izdelki Aluminium products

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EUROPEAN STANDARD

EN 1301-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1997

ICS 77.150.10

Descriptors: aluminium, aluminium alloys, wire, drawn products, cold drawn products, dimensional tolerances

English version

Aluminium and aluminium alloys - Drawn wire - Part 3: Tolerances on dimensions

Aluminium et alliages d'aluminium - Fil étiré
- Partie 3: Tolérances sur dimensions

Aluminium und Aluminiumlegierungen - Gezogene
Drahte - Teil 3: Grenzabmaße

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This European Standard was approved by CEN on 1997-07-03. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

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ALUMINOVAIR ADELPHOIR
918F EN 1301-3-1998
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 1998, and conflicting national standards shall be withdrawn at the latest by January 1998.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 4 "Wires and drawing stock" to prepare the following standard :

EN 1301-3 Aluminium and aluminium alloys - Drawn wire - Part 2 : Tolerances on dimensions

This standard is a part of a set of three standards. The other standards deal with :

EN 1301-1 Aluminium and aluminium alloys - Drawn wire - Part 1 : Technical conditions for inspection and delivery

EN 1301-2 Aluminium and aluminium alloys - Drawn wire - Part 2 : Mechanical properties

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According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This part of EN 1301 specifies the tolerances on dimensions of aluminium and aluminium alloy drawn wire for general engineering applications including rivet manufacture (except aeronautical rivets), covering diameters, thicknesses or width across flats up to and including 20 mm.

It applies to drawn wires, except for welding and electrical purposes.

It does not apply to drawing stock.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 1301-1 Aluminium and aluminium alloys - Drawn wire - Part 1 : Technical conditions for inspection and delivery

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3 Tolerances on dimensions

The conditions for the sampling and the measurement of dimensions shall be in accordance with EN 1301-1. <https://standards.iteh.ai/catalog/standards/sist/d3607d57-c238-4a27-9a91-67ff5fd577a/sist-en-1301-3-1998>

The tolerances on dimensions of drawn wires depend on its cross section. They are specified in Tables 1 to 3.

All dimensions and tolerances are specified in millimetres.

3.1 Round wire

Table 1 : Tolerances for round wire

Dimensions in millimetres

Specified diameter		Tolerance	
Over	Up to and including	General purpose wire	Rivet wire
-	1	$\pm 0,02$	0 -0,03
1	3	$\pm 0,03$	0 -0,04
3	6	$\pm 0,04$	0 -0,05
6	10	$\pm 0,05$	0 -0,06
10	15	$\pm 0,07$	0 -0,08
15	20	$\pm 0,11$	0 -0,12

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The ovality, defined as the difference between the maximum and the minimum diameter measured on a same cross-section, shall not exceed 50 % of the total tolerance.

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3.2 Square and hexagonal wire

Table 2 : Tolerances for square and hexagonal wire

Dimensions in millimetres

Width across flats		Tolerance
Over	Up to and including	
-	3	$\pm 0,04$
3	6	$\pm 0,05$
6	10	$\pm 0,07$
10	15	$\pm 0,10$
15	20	$\pm 0,14$

Deviations from the regular polygonal shape are included in the specified tolerances. Distortions of the cross-section due to winding or unwinding operations are not covered by this standard.

3.3 Rectangular wire

Table 3 : Tolerances for rectangular wire

Dimensions in millimetres

Thickness or width		Tolerance	
Over	Up to and including	Thickness	Width
-	1	$\pm 0,03$	$\pm 0,04$
1	3	$\pm 0,04$	$\pm 0,05$
3	6	$\pm 0,05$	$\pm 0,07$
6	10	$\pm 0,07$	$\pm 0,10$
10	15	$\pm 0,10$	$\pm 0,14$
15	20	$\pm 0,14$	$\pm 0,18$

Deviations from the rectangular shape are included in the specified width tolerances. Distortions of the cross-section owing to winding or unwinding are not covered by this standard.

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