



SLOVENSKI STANDARD
SIST EN 1301-3:2008

01-november-2008

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SIST EN 1301-3:1998

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

Aluminium und Aluminiumlegierungen - Gezogene Drähte - Teil 3: GrenzabmaÙe

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

77.150.10 Alumijski izdelki Aluminium products

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en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1301-3

September 2008

ICS 77.150.10

Supersedes EN 1301-3:1997

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 Drähte -
Teil 3: Grenzabmaße

This European Standard was approved by CEN on 16 August 2008.

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 CEN Management Centre or to any CEN member.

This European Standard exists 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1301-3:2008) 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 March 2009, and conflicting national standards shall be withdrawn at the latest by March 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

CEN/TC 132 affirms it is its policy that in the case when a patentee refuses to grant licenses on standardised standard products under reasonable and not discriminatory conditions, then this product shall be removed from the corresponding standard.

This document supersedes EN 1301-3:1997.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG 4 "Wires and drawing stock" to revise EN 1301-3:1997.

Besides editorial adjustments in the text and update of normative references the following changes have been made:

— Foreword: amended;

— Clause 3: amended.

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EN 1301 comprises the following parts under the general title "Aluminium and aluminium alloys – Drawn wire":

— *Part 1: Technical conditions for inspection and delivery*

— *Part 2: Mechanical properties*

— *Part 3: Tolerances on dimensions*

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

EN 1301-3:2008 (E)**1 Scope**

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

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

It does not apply to drawing stock.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Tolerances on dimensions**3.1 General**

The conditions for the sampling and the measurement of dimensions shall be in accordance with EN 1301-1.

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

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3.2 Round wire

Table 1 — Total tolerances for round wire (including ovality)

Specified diameter mm		Tolerance mm	
Over	Up to and including	General purpose wire	Rivet wire
-	1	± 0,02	0 -0,03
1	3	± 0,03	0 -0,04
3	6	± 0,04	0 -0,05
6	10	± 0,05	0 -0,06
10	15	± 0,07	0 -0,08
15	18	± 0,09	0 -0,10
18	20	± 0,11	0 -0,12

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.

3.3 Square and hexagonal wire

Table 2 — Tolerances for square and hexagonal wire

Width across flats mm		Tolerance mm
Over	Up to and including	
-	3	± 0,04
3	6	± 0,05
6	10	± 0,07
10	15	± 0,10
15	20	± 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.

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3.4 Rectangular wire

Table 3 — Tolerances for rectangular wire

Thickness or width mm		Tolerance mm	
Over	Up to and including	Thickness	Width
-	1	± 0,03	± 0,04
1	3	± 0,04	± 0,05
3	6	± 0,05	± 0,07
6	10	± 0,07	± 0,10
10	15	± 0,10	± 0,14
15	20	± 0,14	± 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 European Standard.

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