

STN	Rozmery a tolerancie výrobkov z lesklej nehrdzavejúcej ocele a iných ušľachtilých ocelí	STN EN 10278 42 6516
------------	--	--

Dimensions and tolerances of bright steel products of stainless and other special steels

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/24

Obsahuje: EN 10278:2023

Oznámením tejto normy sa ruší
STN EN 10278 (42 6516) z novembra 2003

138130

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 10278

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2023

ICS 77.140.60

Supersedes EN 10278:1999

English Version

Dimensions and tolerances of bright steel products of stainless and other special steels

Dimensions et tolérances des produits en acier
transformés à froid à partir d'acier inoxydable et
autres aciers spéciaux

Maße und Grenzabmaße von Blankstahlerzeugnissen
aus nichtrostenden und anderen besonderen Stählen

This European Standard was approved by CEN on 25 September 2023.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 10278:2023 (E)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Information to be supplied by the purchaser	5
4.1	Mandatory information	5
4.2	Options	5
4.3	Examples	5
5	Requirements	6
5.1	Shape, dimensions and tolerances	6
5.2	Straightness tolerance	6
5.3	Condition of bar ends	6
5.4	Disposition of tolerances	7
6	Visual and dimensional inspection	7
Annex A (normative) Methods for evaluating straightness		13
A.1	Scope	13
A.2	Recommended method	13
A.3	Alternative method for round bars (effective for diameters ≥ 10 mm)	13

European foreword

This document (EN 10278:2023) has been prepared by Technical Committee CEN/TC 459/SC 5 “Steels for heat treatment, alloy steels, free-cutting steels and stainless steels”, the secretariat of which is held by DIN.

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 May 2024, and conflicting national standards shall be withdrawn at the latest by May 2024.

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

This document supersedes EN 10278:1999.

The main changes compared to the previous edition EN 10278:1999 are listed below:

- bright steels of EN 10277 are excluded from the scope of this document and its application is restricted to stainless steels and special steels which can be delivered as bright products, e.g. tool steels, roller bearing steels, etc.;
- surface condition and tolerance classes revised;
- this document can now also be used for cold heading steels both in form of bars and wire (for wire not concerning length and straightness);
- deviation from straightness revised;
- editorially revised.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

EN 10278:2023 (E)

1 Scope

This document applies to bright steel products in the drawn, turned or ground condition delivered in straight lengths. This document is mainly applied to stainless steels of EN 10088-3 and other product standards, e.g. tool steels, roller bearing steels.

This document can also be used for cold heading steels in the form of bars and wire; in case of wire, the thickness and tolerances apply but not the length and the straightness.

The non-alloy and alloy steels of EN 10277 are no longer included.

This document does not cover cold rolled products and cut lengths produced from strip or sheet by cutting.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 10079, *Definition of steel products*

EN 10088-3, *Stainless steels — Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes*

EN 10204, *Metallic products — Types of inspection documents*

EN ISO 9443, *Surface quality classes for hot-rolled bars and wire rod (ISO 9443)*

ISO 286-2, *Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts*

ISO 10474, *Steel and steel products — Inspection documents*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN