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Cold rolled narrow steel strip for heat treatment - Technical delivery conditions

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. 12/21

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English Version

**Cold rolled narrow steel strip for heat treatment -
Technical delivery conditions**Feuillards laminés à froid pour traitement thermique -
Conditions techniques de livraisonKaltband aus Stahl für eine Wärmebehandlung -
Technische Lieferbedingungen

This European Standard was approved by CEN on 18 July 2021.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EN 10132:2021 (E)**Contents**

Page

European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Classification and designation.....	5
4.1 Classification.....	5
4.2 Designation.....	5
5 Information to be supplied by the purchaser	5
5.1 Mandatory information	5
5.2 Options.....	6
5.3 Ordering examples	6
6 Manufacturing process.....	7
6.1 General.....	7
6.2 Deoxidation	7
6.3 Delivery conditions	7
6.4 Traceability of the cast.....	7
7 Requirements	7
7.1 Chemical composition and mechanical properties.....	7
7.2 Grain size.....	8
7.3 Surface characteristics.....	8
7.4 Non-metallic inclusions	9
7.5 Decarburisation.....	9
7.6 Spheroidisation of carbides	10
7.7 Nominal dimensions, and tolerances on dimensions and shape	10
8 Inspection	10
8.1 Types of inspection and inspection documents.....	10
8.2 Content of inspection documents.....	10
8.3 Summary of inspection	10
9 Sampling.....	11
9.1 Selection and preparation of samples for the product analysis.....	11
9.2 Location of samples, orientation of tensile test pieces and preparation of tensile test pieces.....	11
10 Test methods	11
10.1 Chemical analysis.....	11
10.2 Tensile test	12
10.3 Hardness test.....	12
10.4 Retests.....	12
11 Surface protection, coiling, packaging and marking.....	12
11.1 Surface protection.....	12
11.2 Coiling and bundling	12
11.3 Packaging and marking	12
Annex A (normative) Supplementary or special requirements	22
Bibliography.....	24

European foreword

This document (EN 10132:2021) 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 March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

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 10132-1:2000, EN 10132-2:2000, EN 10132-3:2000, EN 10132-4:2000.

The main changes with respect to the previous editions of EN 10132-1:2000 to EN 10132-4:2000 are listed below:

- a) the four parts of the previous edition were merged to one standard EN 10132;
- b) following steel grades were deleted in part 3: C30E, 25Mn4 and in part 4 48Si7;
- c) following steel grades were added: Steel grades for quenching and tempering C25E, 20MnB5, 27MnCrB5-2, 50CrMo4, Steels grades for springs C80S, 75Cr1, 95Cr1, 58CrV4, 68CrNiMo3-3;
- d) steel grade C25E was added since it could replace C22E in future;
- e) the chemical composition of the steel grades for case hardening and steel grades for quenching and tempering were adapted to standards EN ISO 683-1 to EN ISO 683-3;
- f) the mechanical properties of the steels for quenching and tempering and of the spring steels were partially updated;
- g) the requirements concerning the surface characteristics were completely revised;
- h) inspection certificate 3.1 is mandatory;
- i) standard completely 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, Turkey and the United Kingdom.

EN 10132:2021 (E)

1 Scope

This document specifies the technical delivery conditions for cold rolled narrow steel strip made of non alloy and alloy steel grades in the form of coils and cut lengths in rolling widths less than 600 mm. Cold rolled narrow steel strip is available in grades of case hardening steel and of steels for quenching and tempering for general and special applications particularly springs.

- Case hardening steels in thicknesses up to and including 10 mm;
- steels for quenching and tempering in thicknesses up to and including 6 mm in the conditions annealed (+A), annealed and skin passed (+LC) or cold rolled (+CR);
- steels in the quenched and tempered condition (+QT) in thicknesses between 0,30 mm and 3,00 mm.

In special cases supplementary requirements or deviations with respect to this document can be agreed between the purchaser and the supplier at the time of enquiry and order (see 5.2 and Annex A).

In addition to the requirements of this document, the general technical delivery requirements specified in EN 10021 apply.

This document does not cover cold rolled flat products for which separate standards exist, e.g.:

- cold rolled uncoated low carbon steel narrow strip for cold forming (EN 10139);
- cold rolled steel flat products with higher yield strength for cold forming (EN 10268).

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 10020, *Definition and classification of grades of steel*

EN 10021, *General technical delivery conditions for steel products*

EN 10027-1, *Designation systems for steels - Part 1: Steel names*

EN 10027-2, *Designation systems for steels - Part 2: Numerical system*

EN 10049, *Measurement of roughness average Ra and peak count R_{Pc} on metallic flat products*

EN 10079, *Definition of steel products*

EN 10140, *Cold rolled narrow steel strip - Tolerances on dimensions and shape*

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

EN ISO 377, *Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377)*

EN ISO 643, *Steels - Micrographic determination of the apparent grain size (ISO 643)*

EN ISO 3887, *Steels - Determination of the depth of decarburization (ISO 3887)*

EN ISO 4885, *Ferrous materials - Heat treatments - Vocabulary (ISO 4885)*

EN ISO 6507-1, *Metallic materials - Vickers hardness test - Part 1: Test method (ISO 6507-1)*

EN ISO 6508-1, *Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1)*

EN ISO 6892-1:2019, *Metallic materials - Tensile testing - Part 1: Method of test at room temperature (ISO 6892-1:2019)*

EN ISO 14284, *Steel and iron - Sampling and preparation of samples for the determination of chemical composition (ISO 14284)*

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