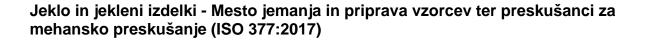


SLOVENSKI STANDARD SIST EN ISO 377:2017

01-september-2017

Nadomešča: SIST EN ISO 377:2013



Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377:2017)

Stahl und Stahlerzeugnissen Lage und Vorbereitung von Probenabschnitten und Proben für mechanische Prüfungen (ISO 377:2017) (standards.iteh.ai)

Acier et produits en acier - Position et préparation des échantillons et éprouvettes pour essais mécaniques (ISO 377:2017)/catalog/standards/sist/6cb78bac-c694-4f4b-8034-878459c6b22f/sist-en-iso-377-2017

Ta slovenski standard je istoveten z: EN ISO 377:2017

ICS:

77.040.10	Mehansko preskušanje kovin	Mechanical testing of metals
77.140.01	Železni in jekleni izdelki na splošno	Iron and steel products in general
	opioono	gonora

SIST EN ISO 377:2017

en,fr,de



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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 377

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ICS 77.040.10

Supersedes EN ISO 377:2013

English Version

Steel and steel products - Location and preparation of samples and test pieces for mechanical testing (ISO 377:2017)

Acier et produits en acier - Position et préparation des échantillons et éprouvettes pour essais mécaniques (ISO 377:2017) Stahl und Stahlerzeugnisse - Lage und Vorbereitung von Probenabschnitten und Proben für mechanische Prüfungen (ISO 377:2017)

This European Standard was approved by CEN on 23 May 2017.

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iTeh STANDARD PREVIEW

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Sectia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN ISO 377:2017 E

SIST EN ISO 377:2017

EN ISO 377:2017 (E)

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European foreword

This document (EN ISO 377:2017) has been prepared by Technical Committee ISO/TC 17 "Steel" in collaboration with Technical Committee ECISS/TC 100 "General issues" the secretariat of which is held by BSI.

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 2018, and conflicting national standards shall be withdrawn at the latest by January 2018.

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 ISO 377:2013.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

iTeh STANDARD PREVIEW (standards.iten.al)

The text of ISO 377:2017 has been approved by CEN as EN ISO 377:2017 without any modification.

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SIST EN ISO 377:2017

INTERNATIONAL STANDARD

ISO 377

Fourth edition 2017-06

Steel and steel products — Location and preparation of samples and test pieces for mechanical testing

Acier et produits en acier — Position et préparation des échantillons et éprouvettes pour essais mécaniques

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

The committee responsible for this document is ISO/TC 17, *Steel*, Subcommittee SC 20, *General technical delivery conditions, sampling and mechanical testing methods*.

This fourth edition cancels and **replaces the third edition (ISO 377:2013); of which it** constitutes a minor revision to correct Figure A.13 b). 878459c6b22f/sist-en-iso-377-2017

Steel and steel products — Location and preparation of samples and test pieces for mechanical testing

1 Scope

This document specifies requirements for the identification, location and preparation of samples and test pieces intended for mechanical tests on steel sections, bars, rod, flat products and tubular products as defined in ISO 6929. If agreed in the order, this document can also apply to other metallic products. These samples and test pieces are for use in tests that are carried out in conformity with the methods specified in the product or material standard or, in the absence of this, in the standard for the test method.

Where the requirements of the order or product standard differ from those given in this document, then the requirements of the order or product standard apply.

Normative references 2

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.

ISO 3785, Metallic materials — Designation of test specimen axes in relation to product texture ISO 6929, Steel products — Vocabulary

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3 Terms and definitions.iteh.ai/catalog/standards/sist/6cb78bac-c694-4f4b-8034-

878459c6b22f/sist-en-iso-377-2017

For the purposes of this document, the terms and definitions given in ISO 6929 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <u>http://www.electropedia.org/</u>
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1

test unit

number of pieces or the tonnage of products to accept or reject together, on the basis of the verification tests carried out on sample products in accordance with the requirements of the product standard or order

Note 1 to entry: See Figure 1.

3.2

sample product

item (e.g. bar, sheet, coil) selected for inspection or testing

Note 1 to entry: See Figure 1.

3.3

sample

sufficient quantity of material taken from the sample product for the purpose of producing one or more test pieces

Note 1 to entry: See Figure 1.

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Note 2 to entry: In certain cases, the sample can be the sample product.

3.4

rough specimen

part of a sample having undergone mechanical treatment, for the purpose of producing a test piece

Note 1 to entry: See Figure 1.

3.5

test piece

part of a sample or rough specimen, with specified dimensions, machined or unmachined, brought to a required condition for submission to a given verification test

Note 1 to entry: See Figure 1.

Note 2 to entry: In certain cases, the test piece can be the sample or the rough specimen.

3.6

reference condition

condition of a sample, rough specimen or test piece having undergone a heat treatment to represent the intended final condition of the product

Note 1 to entry: In such cases, the sample, rough specimen or test piece is called the reference sample, reference rough specimen or reference test piece.

General requirements eh STANDARD PREVIEW 4

4.1 Representative testing

Sample, rough specimens and test pieces selected in accordance with Annex A shall be considered to be representative of the products://standards.iteh.ai/catalog/standards/sist/6cb78bac-c694-4f4b-8034-

(standards.iteh.ai)

As a result of their production sequence, e.g. melting, casting hot or cold forming or both, heat NOTE treatment, etc., steel products are not homogeneous. The mechanical properties of samples taken from other locations can be different.

Identification of sample products, samples, rough specimens and test pieces 4.2

Sample products, samples, rough specimens and test pieces shall be marked to ensure traceability to the original product and their location and orientation in that product. For this purpose, if, during the preparation of any one or more of the samples, rough specimens or test pieces, removal of the marks cannot be avoided, transfer of these marks shall be carried out before the existing marks are removed or, in the case of automatic preparation, equipment before the test piece is removed from the equipment. In the case of specific inspection and where requested by the purchaser, the transfer of the marks shall be carried out in the presence of the purchaser's representative.

In the case of fully automatic in line preparation and testing systems, marking of samples, rough specimens and test pieces is not necessary if an adequate control system exists, which defines the procedures to follow in the event of system failure.