



SLOVENSKI STANDARD SIST EN ISO 10275:2020

01-december-2020

Nadomešča:
SIST EN ISO 10275:2014

Kovinski materiali - Pločevina in trakovi - Ugotavljanje koeficienta utrjevanja (ISO 10275:2020)

Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent (ISO 10275:2020)

Metallische Werkstoffe - Blech und Band - Bestimmung des Verfestigungsexponenten im Zugversuch (ISO 10275:2020)

Matériaux métalliques - Tôles et bandes - Détermination du coefficient d'érouissage en traction (ISO 10275:2020)

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Ta slovenski standard je istoveten z: EN ISO 10275:2020

ICS:

77.040.10	Mehansko preskušanje kovin	Mechanical testing of metals
77.140.50	Ploščati jekleni izdelki in polizdelki	Flat steel products and semi-products

SIST EN ISO 10275:2020

en,fr,de

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EUROPEAN STANDARD

EN ISO 10275

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2020

ICS 77.040.10

Supersedes EN ISO 10275:2014

English Version

Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent (ISO 10275:2020)

Matériaux métalliques - Tôles et bandes -
Détermination du coefficient d'écrouissage en traction
(ISO 10275:2020)

Metallische Werkstoffe - Blech und Band - Bestimmung
des Verfestigungsexponenten im Zugversuch (ISO
10275:2020)

This European Standard was approved by CEN on 28 August 2020.

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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.

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

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

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European foreword

This document (EN ISO 10275:2020) has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" in collaboration with Technical Committee CEN/TC 459/SC 1 "Test methods for steel (other than chemical analysis)" 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 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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 10275:2014.

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, 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.

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The text of ISO 10275:2020 has been approved by CEN as EN ISO 10275:2020 without any modification.

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INTERNATIONAL
STANDARD

ISO
10275

Third edition
2020-08

**Metallic materials — Sheet and strip
— Determination of tensile strain
hardening exponent**

*Matériaux métalliques — Tôles et bandes — Détermination du
coefficient d'écrouissage en traction*

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ISO 10275:2020(E)

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 of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 2, *Ductility testing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 459, *ECISS – European Committee for Iron and Steel Standardization*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 10275:2007), of which it constitutes a minor revision.

The main changes compared to the previous edition are as follows:

- [Clause 2](#) has been updated;
- new [Clause 3](#) "Terms and definitions" has been added as per the latest Directives, Part 2;
- the symbol for true plastic strain has been changed from ϵ to ϵ_p ;

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

In the previous edition of this document, for the calculation of the true strain, the elastic strain did not need to be subtracted from the total strain if it was lower than 10 % of the total strain.

In this document, the elastic strain is subtracted from the total strain for calculation of the true strain, which is now referred to as “true plastic strain”.

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