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Destructive tests on welds in metallic materials - Transverse tensile test (ISO 4136:2022)

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. 08/22

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English Version

Destructive tests on welds in metallic materials - Transverse tensile test (ISO 4136:2022)

Essais destructifs des soudures sur matériaux
métalliques - Essai de traction transversale (ISO
4136:2022)

Zerstörende Prüfung von Schweißverbindungen an
metallischen Werkstoffen - Querzugversuch (ISO
4136:2022)

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EN ISO 4136:2022 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 4136:2022) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with Technical Committee CEN/TC 121 "Welding and allied processes" 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of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by December 2022.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.

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Endorsement notice

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INTERNATIONAL STANDARD

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Fourth edition
2022-05

Destructive tests on welds in metallic materials — Transverse tensile test

*Essais destructifs des soudures sur matériaux métalliques — Essai de
traction transversale*



Reference number
ISO 4136:2022(E)

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Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
5 Principle	2
6 Preparation of test specimens	2
6.1 Location.....	2
6.2 Marking.....	2
6.3 Heat treatment and/or ageing.....	3
6.4 Extraction.....	3
6.4.1 General.....	3
6.4.2 Steel.....	3
6.4.3 Other metallic materials.....	3
6.5 Machining.....	3
6.5.1 General.....	3
6.5.2 Location.....	3
6.5.3 Dimensions.....	4
6.5.4 Surface preparation.....	7
7 Test procedure	7
8 Test results	7
8.1 General.....	7
8.2 Location of fracture.....	7
8.3 Examination of fracture surfaces.....	7
9 Test report	8
Annex A (informative) Example of a test report	9
Bibliography	10

ISO 4136:2022(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).

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This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 5, *Testing and inspection of welds*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding and allied processes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 4136:2012), which has been technically revised.

The main changes are as follows:

- the prescription of the ambient temperature has been updated to conform with ISO 6892-1;
- [Table 1](#) has been updated and figures have been changed accordingly;
- the diameter of pipes has been clarified;
- the determination of section S_0 has been clarified;
- a Bibliography has been created.

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.

Destructive tests on welds in metallic materials — Transverse tensile test

1 Scope

This document specifies the sizes of test specimen and the procedure for carrying out transverse tensile tests in order to determine the tensile strength and the location of fracture of a welded butt joint.

This document applies to metallic materials in all forms of product with joints made by any welded butt joint.

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.

ISO 4063, *Welding and allied processes — Nomenclature of processes and reference numbers*

ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

ISO 6892-2, *Metallic materials — Tensile testing — Part 2: Method of test at elevated temperature*

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