
**Quality requirements for welding —
Resistance welding of metallic
materials —**

**Part 2:
Elementary quality requirements**

*Exigences de qualité en soudage — Soudage par résistance des
matériaux métalliques —*

Partie 2: Exigences de qualité élémentaire

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Reference number
ISO 14554-2:2013(E)

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Published in Switzerland

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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. 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. 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 WTO principles in the Technical Barriers to Trade (TBT) see the following URL: http://www.iso.org/iso/home/standards_development/resources-for-technical-work/foreword.htm

The committee responsible for this document is ISO/TC 44, *Welding and allied processes*, Subcommittee SC 6, *Resistance welding and allied mechanical joining*.

This second edition cancels and replaces the first edition (ISO 14554-2:2000), of which it constitutes a minor revision.

ISO 14554 consists of the following parts, under the general title *Quality requirements for welding — Resistance welding of metallic materials*:

- *Part 1: Comprehensive quality requirements*
- *Part 2: Elementary quality requirements*

Requests for official interpretations of any aspect of this part of ISO 14554 should be directed to the Secretariat of ISO/TC 44/SC 6 via your national standards body. A complete listing of these bodies can be found at www.iso.org.

Quality requirements for welding — Resistance welding of metallic materials —

Part 2: Elementary quality requirements

1 Scope

This part of ISO 14554 specifies requirements for the demonstration of the capability of a manufacturer or a sub-contractor to produce welded constructions, fulfilling specified quality requirements, in one or more of the following:

- a contract between involved parties;
- an application standard;
- a regulatory requirement.

The requirements contained within this part of ISO 14554 can be adopted in full or can be selectively deleted by the manufacturer if not applicable to the construction concerned. They provide a flexible framework for the control of welding by providing specific requirements for:

- Case 1 — resistance welding in contracts which require the manufacturer or sub-contractor to have a quality system other than ISO 9001^[1] and where the documented welding control has a minor importance to the overall integrity of the final construction;
- Case 2 — resistance welding as guidance to a manufacturer or sub-contractor developing a quality system;
- Case 3 — references in application standards which use resistance welding as part of their requirements or in a contract between relevant parties.

This part of ISO 14554:

- is independent of the type of welded construction to be manufactured;
- defines quality requirements for welding both in production plants and on site;
- provides guidance for describing the capability of a manufacturer to produce welded constructions to meet specified requirements;
- can also be used as a basis for assessing the manufacturer in respect to his welding capability.

For general guidelines for selection and use, see ISO 3834-1, while being aware that only comprehensive and elementary requirements are specified for resistance welding. [Annex A](#) gives a summary comparison of specific quality requirements for resistance welding in this part of ISO 14554 and ISO 14554-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3834-1, *Quality requirements for fusion welding of metallic materials — Part 1: Criteria for the selection of the appropriate level of quality requirements*